

---

This is an electronic reprint of the original article.  
This reprint may differ from the original in pagination and typographic detail.

Author(s): Lahti, Lauri

Title: Supplement to doctoral dissertation "Computer-assisted learning based on cumulative vocabularies, conceptual networks and Wikipedia linkage"

Year: 2015

Version: Pre-print

**Please cite the original version:**

Lahti, Lauri. 2015. Supplement to doctoral dissertation "Computer-assisted learning based on cumulative vocabularies, conceptual networks and Wikipedia linkage". P. 351.

---

All material supplied via Aaltodoc is protected by copyright and other intellectual property rights, and duplication or sale of all or part of any of the repository collections is not permitted, except that material may be duplicated by you for your research use or educational purposes in electronic or print form. You must obtain permission for any other use. Electronic or print copies may not be offered, whether for sale or otherwise to anyone who is not an authorised user.

Lauri Lahti

Department of Computer Science

Aalto University School of Science, Finland

**Supplement to doctoral dissertation “Computer-assisted learning based on cumulative vocabularies, conceptual networks and Wikipedia linkage”**

(in Finnish: Täydennysosa väitöskirjaan ”Tietokoneavusteinen oppiminen perustuen karttuviin sanastoihin, käsiteverkostoihin ja Wikipedian linkitykseen”)

(empty on purpose)

# Contents

Preface.....	iii
Comments.....	1
Supplements to publications P2, P5, P6 and P7 that were referenced to by the original publications	3
Supplement to publication P2 .....	5
Supplement to publication P5 .....	7
Supplement to publication P6 .....	9
Supplement to publication P7 .....	11
Appendixes.....	127
Appendix A .....	129
Appendix B .....	133
Appendix C .....	137
Appendix D.....	141
Appendix E.....	147
Appendix F.....	151
Appendix G .....	153
Appendix H.....	157
Appendix I.....	159
Appendix J.....	167
Appendix K.....	177
Appendix L.....	183
Appendix M.....	187
Appendix N.....	193
Appendix O .....	197
Appendix P.....	201
Appendix Q .....	205
Appendix R .....	209
Appendix S.....	211
Appendix T.....	217
Appendix U .....	221
Appendix V .....	227
Appendix W .....	233
Appendix X .....	243
Appendix Y .....	247
Appendix Z.....	255
Appendix AA .....	257
Appendix AB.....	263
Appendix AC.....	271
Appendix AD .....	297
Appendix AE.....	305
Appendix AF.....	313
Appendixes AG.....	321
Appendixes AH.....	323
Appendixes AI.....	325
Appendixes AJ .....	327
Appendixes AK.....	331
Appendixes AL .....	335
Appendixes AM .....	337
Appendixes AN.....	339

(empty on purpose)

# Preface

This publication is a supplement to doctoral dissertation:

Lahti, Lauri (2015). Computer-assisted learning based on cumulative vocabularies, conceptual networks and Wikipedia linkage. Doctoral dissertation of computer science, Department of Computer Science, Aalto University School of Science, Finland.

This supplement includes a collection of experimentally gathered data, full listings of generated rankings and additional comments concerning doctoral dissertation. Originally the author wanted to publish the contents of this supplement in the actual dissertation publication but due to requests made during evaluation process it became a necessity to publish a separate supplement publication.

Please note that doctoral dissertation contains its own Appendixes A–O including reprints of the original publications [P1]-[P11]. However, supplements to publications [P2], [P5], [P6] and [P7] that were referenced to by original publications are included in this supplement to doctoral dissertation. In this publication the original publications [P1]-[P11] are briefly described in Appendix A.

I want to express my warmest thanks to people who have helped me in the process of research that has produced this doctoral dissertation – and in fact my thanks to everyone I have been with during my life since I have learned something important unique from each of you. I dedicate my work to all generations of learners and educators worldwide.

Helsinki, 9 March 2015  
Lauri Lahti

(empty on purpose)

## Comments

We provide here some additional comments concerning doctoral dissertation.

### *Comment 1:*

Despite of relatively long and vulnerable infant period *human species* have gained their exceptional survival in the evolution with their ability and eagerness to learn and to be creative. An important factor for survival and cultural development of the human species has been the altruistic human tendency of *sharing knowledge* with community members and *conveying knowledge* to future generations within folklore. This has been enhanced by establishing writing systems, libraries, printing and school system. The success of civilization largely relies on the rise of scientific worldview, cultural exchange, expeditions as well as foundation of school and university system with systematic organization of education and scientific work. To address principles of sustainable living it is important to see how life-long learning can be naturally incorporated to emerging and evolving future forms of working and education that prepares individuals to work.

### *Comment 2:*

While having an aim to support learning with automation, it is interesting to note that this aim touches closely the fundamental driving forces of computer science in general. A general motivation for evolution of *computer science* has been an aim to provide automation for processing information through methods of computing and organizing data but still today many early expectations of developing truly intellectual human-like—or even superior—computers have remained largely unattainable.

### *Comment 3:*

To promote open distribution, the *methods and software modules* supporting learning that we have developed and implemented in our research described in publications [P1]-[P9] are meant to be public so that details of used research methodology, computational models, program code and data structures are available from the author by request. Also proposals concerning future research are always welcome.

### *Comment 4:*

We think that it might be the Wikipedia's very humane and noble goal of offering a free extensive knowledge resource for everyone that has made volunteers devoted to contribute to its building so willingly. In a survey covering 4930 Wikipedia editors (Wikipedia editors study 2011) it turned out that 69 percent of editors could agree that starting to contribute to Wikipedia was motivated by liking the idea volunteering to share knowledge and 71 percent editors could agree that this same reason motivated to continue contributing.

### *Comment 5:*

Due to common terminological confusion in computer science, it needs to be clarified that our research about “learning” primarily refers to learning in the context of education. When talking in this thesis about learning we typically mean a *human learning process*. Thus learning dealing with so called “learning algorithms” in the context of *artificial intelligence* that typically aims to mimic neural processes for example to train models of pattern recognition for computer vision are not primary subjects of our research. However, we think that our proposed models hold some such characteristics that they can actually be considered to enable some kind of *autonomous learning on the algorithmic level* of our models. For example, our research relies on assumption that typical learning activities proceed cumulatively in a process of chaining essential pieces of knowledge in fruitful ordering in respect to the learner's personal needs.



*Comment 6:*

We recognize that our research can represent only a fraction of the issues concerning computer-assisted learning but we hope that our work can fruitfully complement previous work by helping to increase understanding about the processes involved in learning and how learning could be supported with computational methods.

*Comment 7:*

We have tried to maintain good options and possibilities for later updates, modifications and augmentation when designing and implementing our models and tools. We believe that prototyping, open-source movement and modularly distributed solutions are currently promising approaches to be used in software development work. Even if there are still supporters of more traditional philosophy of developing software we believe in relatively agile, improvised and collectively *gradually fine-tuned* development strategy. It seems for us more useful to launch software solutions in beta-testing phase so that the user community and research community can contribute in giving feedback in early phase and at the same time already also benefit of the use of the tools to increase quality of life.

*Comment 8:*

To motivate our research in greater educational context, we think that skills of *critical thinking* and *freedom of thinking and speech* are essential for balanced evolution of civilized societies and these principles should be strongly encouraged among all school children and students. Progress of a society is strongly dependent on well-organized education that is offered to all of its growing citizens. Like previous generations have unselfishly developed and enhanced the chances for learning for current generations with the resources then possible, it is now our responsibility to continue the progress further by actively exploiting newly opened modern resources that have not been earlier available. Since scientific and technological innovations constantly change our everyday life and worldview it is important to develop learning into such direction that best addresses the new requirements and possibilities of the current time.

*Comment 9:*

We think that a fundamental reform for the way of learning is enabled based on school children and students of today being born and living in a very different world than any earlier generations, and even very different than in their parent's youth 20-40 years earlier. On technological side, the mobile phones and Internet have revolutionized the way people can follow news, communicate in real-time, get entertained, do shopping and access various other online services. Wide-spread use of computers, embedded systems and smart phones in all areas of everyday life with a huge *variety of functional logic* and user interfaces ranging from mp3 players to social media applications have introduced to current youth generations a new form of behavioural language and grammar about how to express oneself, how to communicate, how to search information and how to use purposefully a diversity of technical devices through their user interfaces.

*Comment 10:*

Efforts to systematically index, manage and control information available online are challenging. Even large knowledge entities, such as complete educational book series, videos and exercises, can be technically easily exchanged among learners and educators over the Internet by email or through file transfer protocols, file sharing web sites and peer to peer networks, but unfortunately due to complex *copyright issues* and lack of suitable online retailers many useful knowledge resources cannot be currently legally accessed online. Thus there is a need to develop legally flexible ways to distribute and redistribute educational material.

**Supplements to publications P2, P5, P6 and P7 that were referenced to by the original publications**



## Supplement to publication P2

Supplement to publication P2 that was referenced to by the original publication.

**P2:** Lahti, Lauri (2009b). Guided generation of pedagogical concept maps from the Wikipedia. Proc. World Conference on E-Learning in Corporate, Government, Healthcare and Higher Education (E-Learn 2009). 26–30 October 2009, Vancouver, B.C., Canada (eds. Bastiaens, T. et al.). Association for the Advancement of Computing in Education (AACE), Chesapeake, Virginia, USA, 1741–1750. ISBN 1-880094-76-2.  
<http://www.editlib.org/p/32712>



## **Supplement to Lauri Lahti's conference article "Guided generation of pedagogical concept maps from the Wikipedia"**

Lauri Lahti, 20090910 (updated in 2014)

### **Scientific reference:**

Please use the following citation:

Lahti, L. (2009). Guided generation of pedagogical concept maps from the Wikipedia. Proc. AACE World Conference on E-Learning in Corporate, Government, Healthcare & Higher Education (E-LEARN 2009).

Supplement data available at [http://www.cs.hut.fi/u/llahti/publ/lahti\\_2009b\\_data.pdf](http://www.cs.hut.fi/u/llahti/publ/lahti_2009b_data.pdf)

### **Experiment with the prototype**

(these results are related to analysis in Subchapter 5.3 of Lauri Lahti's doctoral dissertation "Computer-assisted learning based on cumulative vocabularies, conceptual networks and Wikipedia linkage" (Lahti 2014))

As a source for investigation was a listing of 1000 most visited articles of the Wikipedia in 2008 (Wikistatics Falsikon 2009). In early May 2009, we randomly retrieved 20 of these articles and automatically generated an explanation phrase for each hyperlink they provided.

The set of 20 articles included following titles:

Lion, Italy, Radiohead, Jesse McCartney, Hancock (film), Pink Floyd, Bow Wow, Philippines, Judaism, John Cena, Kenya, Linux, Star Wars: The Clone Wars (film), Iraq War, Terminator Salvation, ABBA, Florida, Two-Face, Religion and Peru.

We decided to limit our analysis on the introductory text paragraphs appearing before the table of contents since these sections obviously are the most frequently read parts of the article and try to represent the topic in a condensed form. We extracted a total of 543 hyperlinks ranging from 5 to 48 per article. The sentences surrounding these hyperlinks had an average length of about 25 words. The generated explanation phrases had an average length of 4,2 words meaning compression by over 80 percent from original sentences.

When evaluating the pedagogical quality of generated explanation phrases we classified them into three separate categories based on their intuitiveness, see. A "profitable phrase" describes the relation between the current article and the hyperlink with a truthful expression that provides some new semantic value. A "misleading phrase" carries a similar kind of semantic expression that is convincing but deceptively false. A "fuzzy phrase" offers an expression lacking true semantic value but anyway is so confusing that it is rather easy to identify and ignore.

For all articles together, 81 percent of explanation phrases appeared to be profitable, 11 percent misleading and 8 percent fuzzy. Only exception to the general success rate of at least 69 percent, is article about "Philippines" with 33 percent success only.

This supplement to the conference article gives a full listing of all hyperlinks and their explanation phrases produced in the experiment. Due to space constraints full listing was not possible to offer in actual conference article.

## References:

Lahti, L. (submitted 2014). Computer-assisted learning based on cumulative vocabularies, conceptual networks and Wikipedia linkage. Doctoral dissertation, Department of Computer Science, Aalto University, Finland.

Wikistics Falsikon (2009). Page hits per day for en.wikipedia in year 2008. Based on 210 analysed days, requests counted by Squid servers. Online available at <http://wikistics.falsikon.de/2008/wikipedia/en/>. Retrieved in May 2009.

## Listing of all hyperlinks and their explanation phrases:

**Notation:** Profitable (T) / Misleading (F) / Fuzzy (N) □ Hyperlink title □ Explanation phrase □ Word count in phrase □ Ending of URL □ Hyperlink anchor □ Hyperlink sentence

### Lion (523)

T □ Big cat □ Panthera leo ) is one □ 4 □ Big\_cat □ big cats □ The lion (Panthera leo) is one of four big genus Panthera, and a member of the family

T □ Genus □ Panthera leo ) is one □ 4 □ Genus □ genus □ The lion (Panthera leo) is one of four big genus Panthera, and a member of the family

T □ Panthera □ leo ) is one □ 3 □ Panthera □ Panthera □ The lion (Panthera leo) is one of four big genus Panthera, and a member of the family

T □ Felidae □ Panthera leo ) is one □ 4 □ Felidae □ Felidae □ The lion (Panthera leo) is one of four big genus Panthera, and a member of the family

T □ Pound (mass) □ it is second-largest living cat □ 5 □ Pound\_(mass) □ lb □ With some males exceeding 250&#160;(550&#160;lb) in weight,[4] it is the second-cat after the tiger.

T □ Tiger □ it is second-largest living cat □ 5 □ Tiger □ tiger □ With some males exceeding 250&#160;(550&#160;lb) in weight,[4] it is the second-cat after the tiger.

T □ Sub-Saharan Africa □ Wild lions exist in □ 4 □ Sub-Saharan\_Africa □ Sub-Saharan Africa □ Wild lions currently exist in Sub-Saharan Asia with a critically endangered remnant northwest India, having disappeared from the Middle East, and Western Asia in historic times[specify].

F □ Asia □ endangered remnant population □ 3 □ Asia □ Asia □ Wild lions currently exist in Sub-Saharan Asia with a critically endangered remnant northwest India, having disappeared from the Middle East, and Western Asia in historic times[specify].

T □ Critically endangered species □ endangered remnant population □ 3 □ Critically\_endangered\_species □ critically endangered □ Wild lions currently exist in Sub-Saharan Asia with a critically endangered remnant northwest India, having disappeared from the Middle East, and Western Asia in historic times[specify].

F □ India □ , having disappeared from North Africa □ 5 □ India □ India □ Wild lions currently exist in Sub-Saharan Asia with a critically endangered remnant northwest India, having disappeared from the Middle East, and Western Asia in historic times[specify].

T □ North Africa □ India , having disappeared from □ 4 □ North\_Africa □ North Africa □ Wild lions currently exist in Sub-Saharan Asia with a critically endangered remnant northwest India, having disappeared from the Middle East, and Western Asia in historic times[specify].

T □ Middle East □ India , having disappeared from North Africa □ 6 □ Middle\_East □ Middle East □ Wild lions currently exist in Sub-Saharan Asia with a critically endangered remnant northwest India, having disappeared from the Middle East, and Western Asia in historic times[specify].

T □ Southwest Asia □ historic times [ specify □ 3 □ Southwest\_Asia □ Western Asia □ Wild lions currently exist in Sub-Saharan Asia with a critically endangered remnant northwest India, having disappeared from the Middle East, and Western Asia in historic times[specify].

N □ Pleistocene □ late Pleistocene , which was about 10 □ 6 □ Pleistocene □ Pleistocene □ Until the late Pleistocene, which was about 10,000&#160;years ago, the lion was the widespread large land mammal after humans.

T □ Yukon □ They found in most □ 4 □ Yukon □ Yukon □ They were found in most of Africa, much western Europe to India, and in the Yukon to Peru.

T □ Peru □ They found in most □ 4 □ Peru □ Peru □ They were found in most of Africa, much western Europe to India, and in the Yukon to Peru.

T □ Savanna □ They inhabit □ 2 □ Savanna □ savanna □ They typically inhabit savanna and grassland, they may take to bush and forest.

T □ Grassland □ They inhabit savanna □ 3 □ Grassland □ grassland □ They typically inhabit savanna and grassland, they may take to bush and forest.

T □ Forest □ they take to bush and □ 5 □ Forest □ forest □ They typically inhabit savanna and grassland, they may take to bush and forest.

T □ Social animal □ compared to other cats □ 4 □ Social\_animal □ social □ Lions are unusually social compared to

T □ Ungulate □ Groups hunt , preying on large □ 5 □ Ungulate □ ungulates □ Groups of female lions typically hunt together, mostly on large ungulates.

T □ Apex predator □ is □ 1 □ Apex\_predator □ apex □ The lion is an apex and keystone predator, will scavenge if the opportunity arises.

T □ Keystone species □ is □ 2 □ Keystone\_species#Predators □ keystone □ The lion is an apex and keystone predator, will scavenge if the opportunity arises.

T □ Vulnerable species □ is □ 1 □ Vulnerable\_species □ vulnerable species □ The lion is a vulnerable species, having irreversible population decline of 30 to 50 the past two decades in its African range.

T 2 Menagerie 2 Lions kept in 3 2 Menagerie 2 menageries 2 Lions have been kept in menageries since and have been a key species sought for the world over since the late eighteenth

F 2 Roman era 2 and been key species 4 2 Roman\_era 2 Roman times 2 Lions have been kept in menageries since and have been a key species sought for the world over since the late eighteenth

T 2 Zoo 2 key species sought for exhibition 5 2 Zoo 2 zoos 2 Lions have been kept in menageries since and have been a key species sought for the world over since the late eighteenth

T 2 Asiatic Lion 2 endangered 1 2 Asiatic\_Lion 2 Asiatic subspecies 2 Zoos are cooperating worldwide in breeding for the endangered Asiatic subspecies.

T 2 Mane 2 distinctive and recognized by its 5 2 Mane 2 mane 2 The male lion is highly distinctive and is by its mane.

T 2 Culture 2 one most recognized animal symbols 5 2 Culture 2 culture 2 The lion, particularly the face of the male, most widely recognized animal symbols

T 2 Upper Paleolithic 2 Depictions existed from Upper Paleolithic period 6 2 Upper\_Paleolithic 2 Upper Paleolithic 2 Depictions have existed from the Upper period, with carvings and paintings from Chauvet Caves, through virtually all ancient cultures where they historically occurred.

T 2 Lascaux 2 Depictions existed from Upper Paleolithic period 6 2 Lascaux 2 Lascaux 2 Depictions have existed from the Upper period, with carvings and paintings from Chauvet Caves, through virtually all ancient cultures where they historically occurred.

F 2 Chauvet Cave 2 they occurred 2 2 Chauvet\_Cave 2 Chauvet Caves 2 Depictions have existed from the Upper period, with carvings and paintings from Chauvet Caves, through virtually all ancient cultures where they historically occurred.

T 2 Sculpture 2 It depicted in literature 4 2 Sculpture 2 sculptures 2 It has been extensively depicted in literature, sculptures, in paintings, on national flags, contemporary films and literature.

T 2 Painting 2 It depicted in literature 4 2 Painting 2 paintings 2 It has been extensively depicted in literature, sculptures, in paintings, on national flags, contemporary films and literature.

T 2 Flag 2 It depicted in literature 4 2 Flag 2 flags 2 It has been extensively depicted in literature, sculptures, in paintings, on national flags, contemporary films and literature.

T 2 Film 2 It depicted in literature 4 2 Film 2 films 2 It has been extensively depicted in literature, sculptures, in paintings, on national flags, contemporary films and literature.

T 2 Literature 2 It depicted in 3 2 Literature 2 literature 2 It has been extensively depicted in literature, sculptures, in paintings, on national flags, contemporary films and literature.

### Italy (135)

T 2 Italian language 2 Repubblica Italiana ) , is country 4 2 Italian\_language 2 Italian 2 Italy /É?É?É?li/ (help&Ginfo) (Italian: Italia), Italian Republic (Italian: Repubblica Italiana), located on the Italian Peninsula in Southern on the two largest islands in the Mediterranean Sicily and Sardinia.

T 2 Italian language 2 Repubblica Italiana ) , is country 4 2 Italian\_language 2 Italian 2 Italy /É?É?É?li/ (help&Ginfo) (Italian: Italia), Italian Republic (Italian: Repubblica Italiana), located on the Italian Peninsula in Southern on the two largest islands in the Mediterranean Sicily and Sardinia.

T 2 Italian Peninsula 2 country located on 3 2 Italian\_Peninsula 2 Italian Peninsula 2 Italy /É?É?É?li/ (help&Ginfo) (Italian: Italia), Italian Republic (Italian: Repubblica Italiana), located on the Italian Peninsula in Southern on the two largest islands in the Mediterranean Sicily and Sardinia.

T 2 Southern Europe 2 country located on Italian Peninsula 5 2 Southern\_Europe 2 Southern Europe 2 Italy /É?É?É?li/ (help&Ginfo) (Italian: Italia), Italian Republic (Italian: Repubblica Italiana), located on the Italian Peninsula in Southern on the two largest islands in the Mediterranean Sicily and Sardinia.

T 2 Mediterranean Sea 2 country located on Italian Peninsula 5 2 Mediterranean\_Sea 2 Mediterranean Sea 2 Italy /É?É?É?li/ (help&Ginfo) (Italian: Italia), Italian Republic (Italian: Repubblica Italiana), located on the Italian Peninsula in Southern on the two largest islands in the Mediterranean Sicily and Sardinia.

F 2 Sicily 2 country located on Italian Peninsula 5 2 Sicily 2 Sicily 2 Italy /É?É?É?li/ (help&Ginfo) (Italian: Italia), Italian Republic (Italian: Repubblica Italiana), located on the Italian Peninsula in Southern on the two largest islands in the Mediterranean Sicily and Sardinia.

F 2 Sardinia 2 country located on Italian Peninsula 5 2 Sardinia 2 Sardinia 2 Italy /É?É?É?li/ (help&Ginfo) (Italian: Italia), Italian Republic (Italian: Repubblica Italiana), located on the Italian Peninsula in Southern on the two largest islands in the Mediterranean Sicily and Sardinia.

T 2 Alps 2 shares its northern 3 2 Alps 2 Alpine 2 Italy shares its northern, Alpine boundary Switzerland, Austria and Slovenia

T 2 Border 2 shares its northern 3 2 Border 2 boundary 2 Italy shares its northern, Alpine boundary Switzerland, Austria and Slovenia

T 2 France 2 shares its northern 3 2 France 2 France 2 Italy shares its northern, Alpine boundary Switzerland, Austria and Slovenia

T 2 Switzerland 2 shares its northern 3 2 Switzerland 2 Switzerland 2 Italy shares its northern, Alpine boundary Switzerland, Austria and Slovenia

T 2 Austria 2 shares its northern 3 2 Austria 2 Austria 2 Italy shares its northern, Alpine boundary Switzerland, Austria and Slovenia

T 2 Slovenia 2 shares its northern 3 2 Slovenia 2 Slovenia 2 Italy shares its northern, Alpine boundary Switzerland, Austria and Slovenia

T 2 San Marino 2 Vatican City are enclaves 4 2 San\_Marino 2 San Marino 2 The independent states of City are enclaves within the Campione d'Italia is an Italian exclave in

T 2 Vatican City 2 are enclaves 2 2 Vatican\_City 2 Vatican City 2 The independent states of City are enclaves within the Campione d'Italia is an Italian exclave in

T 2 Enclave 2 Vatican City are 3 2 Enclave 2 enclaves 2 The independent states of City are enclaves within the Campione d'Italia is an Italian exclave in

T 2 Campione d'Italia 2 is Italian exclave 3 2 Campione\_d%27Italia 2 Campione d'Italia 2 The independent states of City are enclaves within the Campione d'Italia is an Italian exclave in



T ▯ Exclave ▯ Campione d'Italia is Italian ▯ 4 ▯ Exclave ▯ exclave ▯ The independent states of City are enclaves within the Campione d'Italia is an Italian exclave in

F ▯ Etruscans ▯ Romans , and was birthplace ▯ 4 ▯ Etruscans ▯ Etruscans ▯ Italy has been the home of many European such as the Etruscans and the Romans, the birthplace of the University, the Renaissance began in Tuscany and spread all over Man, modern science and astronomy, heliocentrism Opera.

F ▯ Ancient Rome ▯ , and was birthplace ▯ 3 ▯ Ancient\_Rome ▯ Romans ▯ Italy has been the home of many European such as the Etruscans and the Romans, the birthplace of the University, the Renaissance began in Tuscany and spread all over Man, modern science and astronomy, heliocentrism Opera.

T ▯ University ▯ Romans , and was birthplace ▯ 4 ▯ University ▯ University ▯ Italy has been the home of many European such as the Etruscans and the Romans, the birthplace of the University, the Renaissance began in Tuscany and spread all over Man, modern science and astronomy, heliocentrism Opera.

T ▯ Renaissance ▯ that began in Tuscany ▯ 4 ▯ Renaissance ▯ Renaissance ▯ Italy has been the home of many European such as the Etruscans and the Romans, the birthplace of the University, the Renaissance began in Tuscany and spread all over Man, modern science and astronomy, heliocentrism Opera.

T ▯ Tuscany ▯ Renaissance that began in ▯ 4 ▯ Tuscany Tuscany Italy has been the home of many European such as the Etruscans and the Romans, the birthplace of the University, the Renaissance began in Tuscany and spread all over ▯ Man, modern science and astronomy, heliocentrism Opera. ▯

F ▯ Vitruvian Man ▯ Tuscany and spread all ▯ 4 ▯ Vitruvian\_Man Vitruvian Man Italy has been the home of many European such as the Etruscans and the Romans, the birthplace of the University, the Renaissance began in Tuscany and spread all over ▯ Man, modern science and astronomy, heliocentrism Opera. ▯

T ▯ Modern science ▯ Tuscany and spread all ▯ 4 ▯ Modern\_science modern science Italy has been the home of many European such as the Etruscans and the Romans, the birthplace of the University, the Renaissance began in Tuscany and spread all over ▯ Man, modern science and astronomy, heliocentrism Opera. ▯

T ▯ Astronomy ▯ Tuscany and spread all ▯ 4 ▯ Astronomy astronomy Italy has been the home of many European such as the Etruscans and the Romans, the birthplace of the University, the Renaissance began in Tuscany and spread all over ▯ Man, modern science and astronomy, heliocentrism Opera. ▯

T ▯ Heliocentrism ▯ Tuscany and spread all ▯ 4 ▯ Heliocentrism ▯ heliocentrism Italy has been the home of many European such as the Etruscans and the Romans, the birthplace of the University, the Renaissance began in Tuscany and spread all over ▯ Man, modern science and astronomy, heliocentrism Opera.

T ▯ Opera ▯ Tuscany and spread all ▯ 4 ▯ Opera ▯ Opera ▯ Italy has been the home of many European such as the Etruscans and the Romans, the birthplace of the University, the Renaissance began in Tuscany and spread all over Man, modern science and astronomy, heliocentrism Opera.

T ▯ Rome ▯ , was for centuries center ▯ 4 ▯ Rome ▯ Rome ▯ Italy's capital, Rome, was for centuries Western civilization. Italy possessed a colonial from the second half of the nineteenth century mid-twentieth century.

T ▯ Western world ▯ possessed colonial empire ▯ 3 ▯ Western\_world ▯ Western civilization ▯ Italy's capital, Rome, was for centuries Western civilization. Italy possessed a colonial from the second half of the nineteenth century mid-twentieth century.

T ▯ Italian Colonial Empire ▯ possessed colonial empire ▯ 3 ▯ Italian\_Colonial\_Empire ▯ Italy possessed a colonial empire ▯ Italy's capital, Rome, was for centuries Western civilization. Italy possessed a colonial from the second half of the nineteenth century mid-twentieth century.

T ▯ Developed country ▯ is democratic republic ▯ 3 ▯ Developed\_country ▯ developed country ▯ Today, Italy is a democratic republic and country with the eighth-highest quality-of-in the world.

T ▯ Quality-of-life index ▯ is democratic republic ▯ 3 ▯ Quality-of-life\_index ▯ quality-of-life index rating ▯ Today, Italy is a democratic republic and country with the eighth-highest quality-of-in the world.

T ▯ European Union ▯ member what is ▯ 3 ▯ European\_Union ▯ European Union ▯ [4] It is a founding member of what is now Union, having signed the Treaty of Rome is a founding member of the North Atlantic Organization (NATO).

T ▯ Treaty of Rome ▯ European Union , having signed ▯ 4 ▯ Treaty\_of\_Rome ▯ Treaty of Rome ▯ [4] It is a founding member of what is now Union, having signed the Treaty of Rome is a founding member of the North Atlantic Organization (NATO).

T ▯ NATO ▯ founding member ▯ 2 ▯ NATO ▯ NATO ▯ [4] It is a founding member of what is now Union, having signed the Treaty of Rome is a founding member of the North Atlantic Organization (NATO).

T ▯ G8 ▯ member , having world 's seventhlargest nominal GDP ▯ 6 ▯ G8 ▯ G8 ▯ It is a member of the G8, having the world's nominal GDP, and is also a member Organisation for Economic Co-operation Development (OECD), the World Trade (WTO), the Council of Europe, the Western Union, and the Central European Initiative.

N ▯ List of countries by GDP (nominal) ▯ member , having world 's ▯ 3 ▯ List\_of\_countries\_by\_GDP\_(nominal) ▯ seventh-largest nominal GDP ▯ It is a member of the G8, having the world's nominal GDP, and is also a member Organisation for Economic Co-operation Development (OECD), the World Trade (WTO), the Council of Europe, the Western Union, and the Central European Initiative.

T ▯ Organisation for Economic Co-operation and Development ▯ world 's seventhlargest nominal GDP , and is member state ▯ 8 ▯ Organisation\_for\_Economic\_Co-operation\_and\_Development ▯ Organisation for Economic Co-operation and Development ▯ It is a member of the G8, having the world's nominal GDP, and is also a member Organisation for Economic Co-operation Development (OECD), the World Trade (WTO), the Council of Europe, the Western Union, and the Central European Initiative.

T ▯ World Trade Organization ▯ world 's seventhlargest nominal GDP , and is member state ▯ 8 ▯ World\_Trade\_Organization ▯ World Trade Organization ▯ It is a member of the G8, having the world's nominal GDP, and is also a member Organisation for Economic Co-operation Development (OECD), the World Trade (WTO), the Council of Europe, the Western Union, and the Central European Initiative.

T ▯ Council of Europe ▯ world 's seventhlargest nominal GDP , and is member state ▯ 8 ▯ Council\_of\_Europe ▯ Council of Europe ▯ It is a member of the G8, having the world's nominal GDP, and is also a member Organisation for Economic Co-operation Development (OECD), the World Trade (WTO), the Council of Europe, the Western Union, and the Central European Initiative.

T ▯ Western European Union ▯ world 's seventhlargest nominal GDP , and is member state ▯ 8 ▯ Western\_European\_Union ▯ Western European Union ▯ It is a member of the G8, having the world's nominal GDP, and is also a member Organisation for Economic Co-operation Development (OECD), the World Trade (WTO), the Council of Europe, the Western Union, and the Central European Initiative.

T ▫ Central European Initiative ▫ world 's seventhlargest nominal GDP , and is member state ▫ 8 ▫ Central\_European\_Initiative  
 ▫ Central European Initiative ▫ It is a member of the G8, having the world's nominal GDP, and is also a member Organisation for Economic Co-operation Development (OECD), the World Trade (WTO), the Council of Europe, the Western Union, and the Central European Initiative.

T ▫ Schengen Agreement ▫ is Schengen state ▫ 3 ▫ Schengen\_Agreement ▫ Schengen ▫ Italy is a Schengen state.

N ▫ List of countries by military ▫ expenditures It has world 's ▫ 3 ▫ List\_of\_countries\_by\_military\_expenditures ▫ eighth-largest defence budget ▫ It has the world's eighth-largest defence shares NATO's nuclear weapons.

T ▫ Nuclear sharing ▫ It has world 's eighthlargest defence budget ▫ 6 ▫ Nuclear\_sharing ▫ NATO's nuclear weapons ▫ It has the world's eighth-largest defence shares NATO's nuclear weapons.

T ▫ List of elected members of the United Nations Security Council ▫ began two-year term ▫ 3 ▫  
 List\_of\_elected\_members\_of\_the\_United\_Nations\_Security\_Council ▫ non-permanent member ▫ On 1 January 2007, Italy began a two-non-permanent member of the United Nations Council.

T ▫ United Nations Security Council ▫ began two-year term ▫ 3 ▫ United\_Nations\_Security\_Council ▫ United Nations Security Council ▫ On 1 January 2007, Italy began a two-non-permanent member of the United Nations Council.

### Radiohead (467)

T ▫ Alternative rock ▫ are English alternative rock band ▫ 5 ▫ Alternative\_rock ▫ alternative rock ▫ Radiohead are an English alternative rock Abingdon, Oxfordshire.

T ▫ Abingdon, Oxfordshire ▫ are English alternative rock band ▫ 5 ▫ Abingdon,\_Oxfordshire ▫ Abingdon ▫ Radiohead are an English alternative rock Abingdon, Oxfordshire.

T ▫ Oxfordshire ▫ are English alternative rock band ▫ 5 ▫ Oxfordshire ▫ Oxfordshire ▫ Radiohead are an English alternative rock Abingdon, Oxfordshire.

T ▫ Thom Yorke ▫ band composed ▫ 2 ▫ Thom\_Yorke ▫ Thom Yorke ▫ The band is composed of Thom Yorke rhythm guitar, piano, beats), Jonny Greenwood guitar, keyboard, other instruments), Ed backing vocals), Colin Greenwood (bass synthesizers) and Phil Selway (drums, percussion).

T ▫ Jonny Greenwood ▫ band composed ▫ 2 ▫ Jonny\_Greenwood ▫ Jonny Greenwood ▫ The band is composed of Thom Yorke rhythm guitar, piano, beats), Jonny Greenwood guitar, keyboard, other instruments), Ed backing vocals), Colin Greenwood (bass synthesizers) and Phil Selway (drums, percussion).

T ▫ Ed O'Brien ▫ guitar , backing vocals ▫ 3 ▫ Ed\_O%27Brien ▫ Ed O'Brien ▫ The band is composed of Thom Yorke rhythm guitar, piano, beats), Jonny Greenwood guitar, keyboard, other instruments), Ed backing vocals), Colin Greenwood (bass synthesizers) and Phil Selway (drums, percussion).

F ▫ Colin Greenwood ▫ guitar , backing vocals ▫ 3 ▫ Colin\_Greenwood ▫ Colin Greenwood ▫ The band is composed of Thom Yorke rhythm guitar, piano, beats), Jonny Greenwood guitar, keyboard, other instruments), Ed backing vocals), Colin Greenwood (bass synthesizers) and Phil Selway (drums, percussion).

F ▫ Phil Selway ▫ guitar , backing vocals ▫ 3 ▫ Phil\_Selway ▫ Phil Selway ▫ The band is composed of Thom Yorke rhythm guitar, piano, beats), Jonny Greenwood guitar, keyboard, other instruments), Ed backing vocals), Colin Greenwood (bass synthesizers) and Phil Selway (drums, percussion).

T ▫ Single (music) ▫ released their first ▫ 3 ▫ Single\_(music) ▫ single ▫ Radiohead released their first single, "Creep",

T ▫ Creep (Radiohead song) ▫ released their first single ▫ 4 ▫ Creep\_(Radiohead\_song) ▫ Creep ▫ Radiohead released their first single, "Creep",

T ▫ Pablo Honey ▫ it became worldwide hit several months ▫ 6 ▫ Pablo\_Honey ▫ Pablo Honey ▫ The song was initially unsuccessful, but worldwide hit several months after the release debut album, Pablo Honey (1993).

T ▫ The Bends ▫ 's popularity rose in United Kingdom ▫ 6 ▫ The\_Bends ▫ The Bends ▫ Radiohead's popularity rose in the the release of their second album, The Bends

T ▫ Falsetto ▫ Yorke 's falsetto singing received by critics ▫ 6 ▫ Falsetto ▫ falsetto ▫ The band's textured guitar parts and Yorke's singing were warmly received by critics N R.E.M. null 0 R.E.M. R.E.M. and Alanis Morissette also exposed the audience in North America

T ▫ Alanis Morissette ▫ exposed band ▫ 2 ▫ Alanis\_Morissette ▫ Alanis Morissette ▫ and Alanis Morissette also exposed the audience in North America

T ▫ OK Computer ▫ 1997 ) , propelled them ▫ 3 ▫ OK\_Computer ▫ OK Computer ▫ Radiohead's third album, OK Computer propelled them to greater international fame.

T ▫ Modernism ▫ OK Computer acclaimed as landmark record ▫ 6 ▫ Modernism ▫ modern ▫ Featuring an expansive sound and themes alienation, OK Computer has often been landmark record of the 1990s.

T ▫ Social alienation ▫ OK Computer acclaimed as landmark record ▫ 6 ▫ Social\_alienation ▫ alienation ▫ Featuring an expansive sound and themes alienation, OK Computer has often been landmark record of the 1990s.

T ▫ Kid A ▫ 2001 ) marked evolution ▫ 3 ▫ Kid\_A ▫ Kid A ▫ Kid A (2000) and Amnesiac (2001) marked in Radiohead's musical style, as the group experimental electronic music, Krautrock, jazz influences.

T ▫ Amnesiac ▫ 2001 ) marked evolution ▫ 3 ▫ Amnesiac ▫ Amnesiac ▫ Kid A (2000) and Amnesiac (2001) marked in Radiohead's musical style, as the group experimental electronic music, Krautrock, jazz influences.

T ▫ Electronic music ▫ group incorporated experimental ▫ 3 ▫ Electronic\_music ▫ electronic music ▫ Kid A (2000) and Amnesiac (2001) marked in Radiohead's musical style, as the group experimental electronic music, Krautrock, jazz influences.

T ▫ Krautrock ▫ group incorporated experimental electronic music ▫ 5 ▫ Krautrock ▫ Krautrock ▫ Kid A (2000) and Amnesiac (2001) marked in Radiohead's musical style, as the group experimental electronic music, Krautrock, jazz influences.

T ▫ Post-punk ▫ group incorporated experimental electronic music ▫ 5 ▫ Post-punk ▫ post-punk ▫ Kid A (2000) and Amnesiac (2001) marked in Radiohead's musical style, as the group experimental electronic music, Krautrock, jazz influences.

T ▫ Jazz ▫ group incorporated experimental electronic music ▫ 5 ▫ Jazz ▫ jazz ▫ Kid A (2000) and Amnesiac (2001) marked in Radiohead's musical style, as the group experimental electronic music, Krautrock, jazz influences.

N ▫ Hail to the Thief ▫ remained popular ▫ 2 ▫ Hail\_to\_the\_Thief ▫ Hail to the Thief ▫ Although critical opinion was divided, Radiohead remained popular. Hail to the Thief (2003), guitar-driven rock, electronics and lyrics headlines, was the band's final album for record label, EMI.

F 5 EMI headlines , was band 's final album 5 EMI EMI Although critical opinion was divided, Radiohead remained popular. Hail to the Thief (2003), guitar-driven rock, electronics and lyrics headlines, was the band's final album for record label, EMI.

T In Rainbows released their seventh album 4 In\_Rainbows In Rainbows Radiohead independently released their In Rainbows (2007), originally as a digital which each customer could set their own stores, to critical and chart success.

T Digital download each customer could set their own price 7 Digital\_download digital download Radiohead independently released their In Rainbows (2007), originally as a digital which each customer could set their own stores, to critical and chart success.

T Rolling Stone ranked number 73 3 Rolling\_Stone Rolling Stone [1][2] In 2005, Radiohead were ranked Rolling Stone's list of "the greatest artists

### Jesse McCartney (635)

T Singer-songwriter 1987 ) is American 3 Singer-songwriter singer-songwriter Jesse Abraham Arthur McCartney (born an American singer-songwriter and actor.

T Actor 1987 ) is American singer-songwriter 4 Actor actor Jesse Abraham Arthur McCartney (born an American singer-songwriter and actor.

T Boy band McCartney rose to fame in early 2000s 7 Boy\_band boy band McCartney rose to fame in the early 2000s of the boy band Dream Street

N Dream Street McCartney rose to fame in early 2000s 7 Dream\_Street Dream Street McCartney rose to fame in the early 2000s of the boy band Dream Street

T Summerland (TV series) solo career , having appeared in television series 7 Summerland\_(TV\_series) Summerland He subsequently branched out into a solo appeared in the television series Summerland.

### Hancock (film) (260, first one of the two)

T 2008 in film is 2008 American comedy-drama superhero film 6 2008\_in\_film 2008 Hancock is a 2008 American comedy-drama film directed by Peter Berg and starring Bateman, and Charlize Theron.

T Cinema of the United States is 2008 American comedy-drama superhero film 6 Cinema\_of\_the\_United\_States American Hancock is a 2008 American comedy-drama film directed by Peter Berg and starring Bateman, and Charlize Theron.

T Comedy-drama 2008 American comedy-drama superhero film directed by Peter Berg 9 Comedy-drama comedy-drama Hancock is a 2008 American comedy-drama film directed by Peter Berg and starring Bateman, and Charlize Theron.

T Superhero film 2008 American comedy-drama superhero film directed by Peter Berg 9 Superhero\_film superhero film Hancock is a 2008 American comedy-drama film directed by Peter Berg and starring Bateman, and Charlize Theron.

T Peter Berg 2008 American comedy-drama superhero film directed by 7 Peter\_Berg Peter Berg Hancock is a 2008 American comedy-drama film directed by Peter Berg and starring Bateman, and Charlize Theron.

T Will Smith Peter Berg and starring 4 Will\_Smith Will Smith Hancock is a 2008 American comedy-drama film directed by Peter Berg and starring Bateman, and Charlize Theron.

T Jason Bateman Peter Berg and starring Will Smith 6 Jason\_Bateman Jason Bateman Hancock is a 2008 American comedy-drama film directed by Peter Berg and starring Bateman, and Charlize Theron.

T Charlize Theron Peter Berg and starring Will Smith 6 CharliZe\_Theron CharliZe Theron Hancock is a 2008 American comedy-drama film directed by Peter Berg and starring Bateman, and Charlize Theron.

F Los Angeles reckless actions cost city millions 5 Los\_Angeles Los Angeles It tells the story of a vigilante superhero, (Smith), from Los Angeles routinely cost the city millions of dollars.

T Development hell It languished in 3 Development\_hell development hell It languished in development hell for years various directors attached, including Tony Mann, Jonathan Mostow, and Gabriele going into production in 2007. Hancock was Angeles with a production budget of \$150

T Tony Scott various directors attached , including 4 Tony\_Scott Tony Scott It languished in development hell for years various directors attached, including Tony Mann, Jonathan Mostow, and Gabriele going into production in 2007. Hancock was Angeles with a production budget of \$150

T Michael Mann (director) various directors attached , including Tony Scott 6 Michael\_Mann\_(director) Michael Mann It languished in development hell for years various directors attached, including Tony Mann, Jonathan Mostow, and Gabriele going into production in 2007. Hancock was Angeles with a production budget of \$150

T Jonathan Mostow various directors attached , including Tony Scott 6 Jonathan\_Mostow Jonathan Mostow It languished in development hell for years various directors attached, including Tony Mann, Jonathan Mostow, and Gabriele going into production in 2007. Hancock was Angeles with a production budget of \$150

F Gabriele Muccino before going into production 4 Gabriele\_Muccino Gabriele Muccino It languished in development hell for years various directors attached, including Tony Mann, Jonathan Mostow, and Gabriele going into production in 2007. Hancock was Angeles with a production budget of \$150

T Los Angeles filmed in 2 Los\_Angeles Los Angeles It languished in development hell for years various directors attached, including Tony Mann, Jonathan Mostow, and Gabriele going into production in 2007. Hancock was Angeles with a production budget of \$150

T Motion Picture Association of America film rating system film rated 2 Motion\_Picture\_Association\_of\_America\_film\_rating\_system PG-13

T In the United States, the film was rated Motion Picture Association of America after were made at the organization's request a "restricted" (R) rating, which it had received before.

T Motion Picture Association of America film rated PG-13 3 Motion\_Picture\_Association\_of\_America Motion Picture Association of America In the United States, the film was rated Motion Picture Association of America after were made at the organization's request a "restricted" (R) rating, which it had received before.

N Columbia Pictures received mixed reviews 3 Columbia\_Pictures Columbia Pictures The film was widely released on July 2, United States and the United Kingdom Pictures. Hancock received mixed reviews critics.

### **Pink Floyd (395)**

T ▯ English people ▯ are English rock band ▯ 4 ▯ English\_people ▯ English ▯ Pink Floyd are an English rock band who recognition for their psychedelic and space and later, as they evolved, for their progressive music.

T ▯ Rock music ▯ are English rock band ▯ 4 ▯ Rock\_music ▯ rock ▯ Pink Floyd are an English rock band who recognition for their psychedelic and space and later, as they evolved, for their progressive music.

T ▯ Psychedelic rock ▯ English rock band who earned recognition ▯ 6 ▯ Psychedelic\_rock ▯ psychedelic ▯ Pink Floyd are an English rock band who recognition for their psychedelic and space and later, as they evolved, for their progressive music.

T ▯ Space rock ▯ English rock band who earned recognition ▯ 6 ▯ Space\_rock ▯ space rock ▯ Pink Floyd are an English rock band who recognition for their psychedelic and space and later, as they evolved, for their progressive music.

T ▯ Progressive rock ▯ they evolved , for their progressive rock music ▯ 7 ▯ Progressive\_rock ▯ progressive rock ▯ Pink Floyd are an English rock band who recognition for their psychedelic and space and later, as they evolved, for their progressive music.

T ▯ Philosophy ▯ known for philosophical lyrics ▯ 4 ▯ Philosophy ▯ philosophical ▯ Pink Floyd are known for philosophical experimentation, innovative album cover elaborate live shows.

T ▯ Acoustics ▯ known for philosophical lyrics ▯ 4 ▯ Acoustics ▯ sonic experimentation ▯ Pink Floyd are known for philosophical experimentation, innovative album cover elaborate live shows.

T ▯ Album art ▯ known for philosophical lyrics ▯ 4 ▯ Album\_art ▯ album cover art ▯ Pink Floyd are known for philosophical experimentation, innovative album cover elaborate live shows.

T ▯ Pink Floyd live performances ▯ known for philosophical lyrics ▯ 4 ▯ Pink\_Floyd\_live\_performances ▯ live shows ▯ Pink Floyd are known for philosophical experimentation, innovative album cover elaborate live shows.

T ▯ Progressive rock ▯ influenced progressive rock artists ▯ 4 ▯ Progressive\_rock ▯ progressive rock ▯ [4] Pink Floyd influenced progressive rock 1970s such as Genesis and Yes,[5] as contemporary artists such as Nine Inch Theater,[7] and Porcupine Tree.

T ▯ Artist ▯ influenced progressive rock artists ▯ 4 ▯ Artist ▯ artists ▯ [4] Pink Floyd influenced progressive rock 1970s such as Genesis and Yes,[5] as contemporary artists such as Nine Inch Theater,[7] and Porcupine Tree.

T ▯ Genesis (band) ▯ influenced progressive rock artists ▯ 4 ▯ Genesis\_(band) ▯ Genesis ▯ [4] Pink Floyd influenced progressive rock 1970s such as Genesis and Yes,[5] as contemporary artists such as Nine Inch Theater,[7] and Porcupine Tree.

T ▯ Yes (band) ▯ influenced progressive rock artists ▯ 4 ▯ Yes\_(band) ▯ Yes ▯ [4] Pink Floyd influenced progressive rock 1970s such as Genesis and Yes,[5] as contemporary artists such as Nine Inch Theater,[7] and Porcupine Tree.

F ▯ Nine Inch Nails ▯ influenced progressive rock artists ▯ 4 ▯ Nine\_Inch\_Nails ▯ Nine Inch Nails ▯ [4] Pink Floyd influenced progressive rock 1970s such as Genesis and Yes,[5] as contemporary artists such as Nine Inch Theater,[7] and Porcupine Tree.

F ▯ Dream Theater ▯ influenced progressive rock artists ▯ 4 ▯ Dream\_Theater ▯ Dream Theater ▯ [4] Pink Floyd influenced progressive rock 1970s such as Genesis and Yes,[5] as contemporary artists such as Nine Inch Theater,[7] and Porcupine Tree.

F ▯ Porcupine Tree ▯ influenced progressive rock artists ▯ 4 ▯ Porcupine\_Tree ▯ Porcupine Tree ▯ [4] Pink Floyd influenced progressive rock 1970s such as Genesis and Yes,[5] as contemporary artists such as Nine Inch Theater,[7] and Porcupine Tree.

T ▯ Syd Barrett ▯ moved from Cambridge ▯ 3 ▯ Syd\_Barrett ▯ Syd Barrett ▯ Pink Floyd were formed in London in 1965 Barrett moved down from Cambridge and Set, a group consisting of Regent Street architecture students Nick Mason, Roger Richard Wright and Bob Klose.

F ▯ Regent Street Polytechnic ▯ group consisting ▯ 2 ▯ Regent\_Street\_Polytechnic ▯ Regent Street Polytechnic ▯ Pink Floyd were formed in London in 1965 Barrett moved down from Cambridge and Set, a group consisting of Regent Street architecture students Nick Mason, Roger Richard Wright and Bob Klose.

T ▯ Nick Mason ▯ group consisting ▯ 2 ▯ Nick\_Mason ▯ Nick Mason ▯ Pink Floyd were formed in London in 1965 Barrett moved down from Cambridge and Set, a group consisting of Regent Street architecture students Nick Mason, Roger Richard Wright and Bob Klose.

T ▯ Roger Waters ▯ group consisting ▯ 2 ▯ Roger\_Waters ▯ Roger Waters ▯ Pink Floyd were formed in London in 1965 Barrett moved down from Cambridge and Set, a group consisting of Regent Street architecture students Nick Mason, Roger Richard Wright and Bob Klose.

T ▯ Richard Wright (musician) ▯ group consisting ▯ 2 ▯ Richard\_Wright\_(musician) ▯ Richard Wright ▯ Pink Floyd were formed in London in 1965 Barrett moved down from Cambridge and Set, a group consisting of Regent Street architecture students Nick Mason, Roger Richard Wright and Bob Klose.

T ▯ Bob Klose ▯ group consisting ▯ 2 ▯ Bob\_Klose ▯ Bob Klose ▯ Pink Floyd were formed in London in 1965 Barrett moved down from Cambridge and Set, a group consisting of Regent Street architecture students Nick Mason, Roger Richard Wright and Bob Klose.

F ▯ David Gilmour ▯ his colleagues to replace him ▯ 4 ▯ David\_Gilmour ▯ David Gilmour ▯ However, Barrett's erratic behaviour eventually colleagues to replace him with guitarist Gilmour.

N ▯ Concept albums ▯ Dark Side ▯ 2 ▯ Concept\_albums ▯ concept albums ▯ The band had always been popular in they did not achieve worldwide critical and success until the concept albums The Dark Moon (1973), Wish You Were Here (1975), (1977), and the rock opera The Wall (1979).

T ▯ The Dark Side of the Moon ▯ concept albums Dark Side ▯ 4 ▯ The\_Dark\_Side\_of\_the\_Moon ▯ The Dark Side of the Moon ▯ The band had always been popular in they did not achieve worldwide critical and success until the concept albums The Dark Moon (1973), Wish You Were Here (1975), (1977), and the rock opera The Wall (1979).

N ▯ Wish You Were Here (album) ▯ You Were ( 1975 ▯ 3 ▯ Wish\_You\_Were\_Here\_(album) ▯ Wish You Were Here ▯ The band had always been popular in they did not achieve worldwide critical and success until the concept albums The Dark Moon (1973), Wish You Were Here (1975), (1977), and the rock opera The Wall (1979).

N ▯ Animals (album) ▯ You Were ( 1975 ▯ 3 ▯ Animals\_(album) ▯ Animals ▯ The band had always been popular in they did not achieve worldwide critical and success until the concept albums The Dark Moon (1973), Wish You Were Here (1975), (1977), and the rock opera The Wall (1979).

N  Rock opera  You Were ( 1975  3  Rock\_opera  rock opera  The band had always been popular in they did not achieve worldwide critical and success until the concept albums The Dark Moon (1973), Wish You Were Here (1975), (1977), and the rock opera The Wall (1979).

N  The Wall  You Were ( 1975  3  The\_Wall  The Wall  The band had always been popular in they did not achieve worldwide critical and success until the concept albums The Dark Moon (1973), Wish You Were Here (1975), (1977), and the rock opera The Wall (1979).

T  A Momentary Lapse of Reason  They enjoyed worldwide success  4  A\_Momentary\_Lapse\_of\_Reason  A Momentary Lapse of Reason  They again enjoyed worldwide success Momentary Lapse of Reason (1987) and Bell (1994).

T  The Division Bell  They enjoyed worldwide success  4  The\_Division\_Bell  The Division Bell  They again enjoyed worldwide success Momentary Lapse of Reason (1987) and Bell (1994).

T  Live 8 concert, London  Waters performed with band  4  Live\_8\_concert,\_London  London Live 8 concert  Waters performed with the band for the years on 2 July 2005 at the London Live

### **Bow Wow (570)**

N  Stage name  1987 ) , known by his  4  Stage\_name  stage name  Shad Gregory Moss (born March 9, 1987), by his stage name Bow Wow (formerly an American rapper, actor, and music producer.

T  United States  Lil ' Bow Wow ) , is American rapper  6  United\_States  American  Shad Gregory Moss (born March 9, 1987), by his stage name Bow Wow (formerly an American rapper, actor, and music producer.

T  Rapper Lil ' Bow Wow  ) , is American  5  Rapper  rapper  Shad Gregory Moss (born March 9, 1987), by his stage name Bow Wow (formerly an American rapper, actor, and music producer.

T  Actor  Lil ' Bow Wow ) , is American rapper  6  Actor  actor  Shad Gregory Moss (born March 9, 1987), by his stage name Bow Wow (formerly an American rapper, actor, and music producer.

T  Music producer  Lil ' Bow Wow ) , is American rapper  6  Music\_producer  music producer  Shad Gregory Moss (born March 9, 1987), by his stage name Bow Wow (formerly an American rapper, actor, and music producer.

T  Beware of Dog  He released his debut album  5  Beware\_of\_Dog  Beware of Dog  He released his debut album Beware of then under the stage name Lil' Bow Wow, carried until his 2003 album Unleashed, Wow.

T  Unleashed (Bow Wow album)  he carried until his 2003 album  6  Unleashed\_(Bow\_Wow\_album)  Unleashed  He released his debut album Beware of then under the stage name Lil' Bow Wow, carried until his 2003 album Unleashed, Wow.

T  Wanted (album)  Three more albums followed , Wanted in 2005  7  Wanted\_(album)  Wanted  Three more albums followed, Wanted in of Fame in 2006 and New Jack City II in

T  The Price of Fame  Three more albums followed , Wanted in 2005  7  The\_Price\_of\_Fame  The Price of Fame  Three more albums followed, Wanted in of Fame in 2006 and New Jack City II in

T  New Jack City II  Three more albums followed , Wanted in 2005  7  New\_Jack\_City\_II  New Jack City II  Three more albums followed, Wanted in of Fame in 2006 and New Jack City II in

T  Face Off (Bow Wow & Omarion album)  he released collaboration album  4 

Face\_Off\_(Bow\_Wow\_%26\_Omarion\_album)  Face Off  In 2007, he released the collaboration album with Omarion.

T  Omarion  he released collaboration album Face Off  6  Omarion  Omarion  In 2007, he released the collaboration album with Omarion.

### **Philippines (166)**

T  Southeast Asia  Republic , is country  3  Southeast\_Asia  Southeast Asia  The Philippines, officially known as the Philippines, is a country in Southeast Asia its capital city.

F  Manila  Republic , is country  3  Manila  Manila  The Philippines, officially known as the Philippines, is a country in Southeast Asia its capital city.

F  Western Pacific Ocean  It comprises 7  3  Western\_Pacific\_Ocean  western Pacific Ocean  It comprises 7,107 islands[9] in the western Ocean.

T  List of countries by population  Philippines is world 's 12th  4  List\_of\_countries\_by\_population  the world's 12th most populous country  The Philippines is the world's 12th most country, with a population of about 90 million

T  List of countries by GDP (nominal)  Its national economy is 47th largest  6  List\_of\_countries\_by\_GDP\_(nominal)  47th largest in the world  [4][10] Its national economy is the 47th world, with an estimated 2008 gross domestic (GDP) of over US\$ 168.6 billion (nominal).

N  Gross domestic product  estimated 2008  2  Gross\_domestic\_product  gross domestic product  [4][10] Its national economy is the 47th world, with an estimated 2008 gross domestic (GDP) of over US\$ 168.6 billion (nominal).

N  United States dollar  estimated 2008 gross domestic product  5  United\_States\_dollar  US\$  [4][10] Its national economy is the 47th world, with an estimated 2008 gross domestic (GDP) of over US\$ 168.6 billion (nominal).

N  Overseas Filipinos  11 ] There are more  4  Overseas\_Filipinos  overseas Filipinos  [11] There are more than 11 million overseas worldwide, about 11% of the total population Philippines.

F  Spain  is one  2  Spain  Spain  A former colony of Spain and the United Philippines is one of two predominantly countries in Asia, the other being East Timor.

F  United States  is one  2  United\_States  United States  A former colony of Spain and the United Philippines is one of two predominantly countries in Asia, the other being East Timor.

T  Roman Catholic Church  is one  2  Roman\_Catholic\_Church  Roman Catholic  A former colony of Spain and the United Philippines is one of two predominantly countries in Asia, the other being East Timor.

N  East Timor  other being  2  East\_Timor  East Timor  A former colony of Spain and the United Philippines is one of two predominantly countries in Asia, the other being East Timor.

F  Islam  in the Philippines number , including  2  Islam\_in\_the\_Philippines  Islam  There are also a number of minority religious including Islam, Buddhism, and Hinduism.

F  Buddhism in the Philippines  number , including Islam  3  Buddhism\_in\_the\_Philippines  Buddhism  There are also a number of minority religious including Islam, Buddhism, and Hinduism.

F  Hinduism in the Philippines  number , including Islam  3  Hinduism\_in\_the\_Philippines  Hinduism  There are also a number of minority religious including Islam, Buddhism, and Hinduism.

T ▫ Ethnic groups in the Philippines ▫ cultures found throughout islands ▫ 4 ▫ Ethnic\_groups\_in\_the\_Philippines ▫ ethnicities ▫ Multiple ethnicities and cultures are found islands. Ecologically, the Philippines diverse countries in the world.  
 T ▫ Culture of the Philippines ▫ found throughout islands ▫ 3 ▫ Culture\_of\_the\_Philippines ▫ cultures ▫ Multiple ethnicities and cultures are found islands. Ecologically, the Philippines diverse countries in the world.  
 N ▫ Ecologically ▫ is one ▫ 2 ▫ Ecologically ▫ Multiple ethnicities and cultures are found islands. Ecologically, the Philippines diverse countries in the world.

**Judaism (644)**

T ▫ Hebrew language ▫ Greek loudaÅWsmos , derived from ▫ 4 ▫ Hebrew\_language ▫ Hebrew ▫ Judaism (from the Greek loudaÅWsmos, the Hebrew x?x?x?x?x?, Yehudah, "Judah";[Hebrew: x?ÖGx?Ö²x?x?Ö¼xª, Yahedut, characteristics of the Judean ethnos])[2] and practices originating in the Hebrew as later further explored and explained in other texts.  
 T ▫ Kingdom of Judah ▫ Greek loudaÅWsmos , derived from Hebrew ▫ 5 ▫ Kingdom\_of\_Judah ▫ Judah ▫ Judaism (from the Greek loudaÅWsmos, the Hebrew x?x?x?x?x?, Yehudah, "Judah";[Hebrew: x?ÖGx?Ö²x?x?Ö¼xª, Yahedut, characteristics of the Judean ethnos])[2] and practices originating in the Hebrew as later further explored and explained in other texts.  
 T ▫ Ethnic group ▫ 2 ] is set ▫ 3 ▫ Ethnic\_group ▫ ethnos ▫ Judaism (from the Greek loudaÅWsmos, the Hebrew x?x?x?x?x?, Yehudah, "Judah";[Hebrew: x?ÖGx?Ö²x?x?Ö¼xª, Yahedut, characteristics of the Judean ethnos])[2] and practices originating in the Hebrew as later further explored and explained in other texts.  
 T ▫ Hebrew Bible ▫ practices originating in ▫ 3 ▫ Hebrew\_Bible ▫ Hebrew ▫ Bible Judaism (from the Greek loudaÅWsmos, the Hebrew x?x?x?x?x?, Yehudah, "Judah";[Hebrew: x?ÖGx?Ö²x?x?Ö¼xª, Yahedut, characteristics of the Judean ethnos])[2] and practices originating in the Hebrew as later further explored and explained in other texts.  
 T ▫ Tanakh ▫ practices originating in Hebrew Bible ▫ 5 ▫ Tanakh ▫ Tanakh ▫ Judaism (from the Greek loudaÅWsmos, the Hebrew x?x?x?x?x?, Yehudah, "Judah";[Hebrew: x?ÖGx?Ö²x?x?Ö¼xª, Yahedut, characteristics of the Judean ethnos])[2] and practices originating in the Hebrew as later further explored and explained in other texts.  
 T ▫ Talmud ▫ Tanakh ) , as explored and explained in ▫ 6 ▫ Talmud ▫ Talmud ▫ Judaism (from the Greek loudaÅWsmos, the Hebrew x?x?x?x?x?, Yehudah, "Judah";[Hebrew: x?ÖGx?Ö²x?x?Ö¼xª, Yahedut, characteristics of the Judean ethnos])[2] and practices originating in the Hebrew as later further explored and explained in other texts.  
 F ▫ Children of Israel ▫ presents itself ▫ 2 ▫ Children\_of\_Israel ▫ Children of Israel ▫ Judaism presents itself as the covenantal between the Children of Israel (later, the and God).  
 F ▫ Jews ▫ presents itself ▫ 2 ▫ Jews ▫ Jewish nation ▫ Judaism presents itself as the covenantal between the Children of Israel (later, the and God).  
 F ▫ God ▫ presents itself ▫ 2 ▫ God ▫ God ▫ Judaism presents itself as the covenantal between the Children of Israel (later, the and God).  
 T ▫ Monotheism ▫ one , and is among oldest religious traditions ▫ 7 ▫ Monotheism ▫ monotheistic ▫ It is considered either the first or one of monotheistic religions, and is among the traditions still being practiced today.  
 T ▫ Religion ▫ one , and is among oldest religious traditions ▫ 7 ▫ Religion ▫ religions ▫ It is considered either the first or one of monotheistic religions, and is among the traditions still being practiced today.  
 T ▫ Abrahamic religions ▫ traditions are central ▫ 3 ▫ Abrahamic\_religions ▫ Abrahamic religions ▫ Many of its texts and traditions are central Abrahamic religions, with Jewish history principles and ethics of Judaism having Christianity and Islam, as well as some religions.  
 T ▫ Christianity ▫ ethics having influenced ▫ 3 ▫ Christianity ▫ Christianity ▫ Many of its texts and traditions are central Abrahamic religions, with Jewish history principles and ethics of Judaism having Christianity and Islam, as well as some religions.  
 T ▫ Islam ▫ ethics having influenced Christianity ▫ 4 ▫ Islam ▫ Islam ▫ Many of its texts and traditions are central Abrahamic religions, with Jewish history principles and ethics of Judaism having Christianity and Islam, as well as some religions.  
 T ▫ Secular ▫ many aspects correspond to secular Western concepts ▫ 7 ▫ Secular ▫ secular ▫ As the foundation of Western Christianity, of Judaism also correspond to secular Western of ethics and civil law.  
 T ▫ Western culture ▫ many aspects correspond to secular Western concepts ▫ 7 ▫ Western\_culture ▫ Western ▫ As the foundation of Western Christianity, of Judaism also correspond to secular Western of ethics and civil law.  
 T ▫ Ethics ▫ many aspects correspond to secular Western concepts ▫ 7 ▫ Ethics ▫ ethics ▫ As the foundation of Western Christianity, of Judaism also correspond to secular Western of ethics and civil law.  
 T ▫ Civil law ▫ many aspects correspond to secular Western concepts ▫ 7 ▫ Civil\_law ▫ civil law ▫ As the foundation of Western Christianity, of Judaism also correspond to secular Western of ethics and civil law.  
 F ▫ Conversion to Judaism ▫ or born into Jewish nation ▫ 5 ▫ Conversion\_to\_Judaism ▫ converts ▫ Followers of Judaism, whether converts Jewish nation (including seculars), are called  
 F ▫ Jew ▫ seculars ) , called ▫ 2 ▫ Jew ▫ Jews ▫ Followers of Judaism, whether converts Jewish nation (including seculars), are called  
 T ▫ Ethnoreligious ▫ Jewish collective regarded as ethnoreligious group ▫ 6 ▫ Ethnoreligious ▫ ethnoreligious ▫ The Jewish collective is regarded as an group, for reasons derived from the sacred define them as a nation, rather than followers  
 T ▫ Nation ▫ sacred texts that define them ▫ 5 ▫ Nation ▫ nation ▫ The Jewish collective is regarded as an group, for reasons derived from the sacred define them as a nation, rather than followers  
 N ▫ Jewish population ▫ world Jewish population estimated at 13 ▫ 6 ▫ Jewish\_population ▫ Jewish population ▫ In 2007, the world Jewish population was 13.2 million people, 41% of whom lived 40% of whom lived in the  
 T ▫ Israel ▫ 41 % whom lived in ▫ 5 ▫ Israel ▫ Israel ▫ In 2007, the world Jewish population was 13.2 million people, 41% of whom lived 40% of whom lived in the  
 T ▫ United States ▫ 40 % whom lived in ▫ 5 ▫ United\_States ▫ United States ▫ In 2007, the world Jewish population was 13.2 million people, 41% of whom lived 40% of whom lived in the  
 N ▫ Halakha ▫ , and learned rabbis ▫ 3 ▫ Halakha ▫ religious law ▫ In modern Judaism, central authority is single person or body, but in sacred texts, and learned rabbis who interpret those texts  
 T ▫ Rabbis ▫ religious law , and learned ▫ 4 ▫ Rabbis ▫ rabbis ▫ In modern Judaism, central authority is single person or body, but in sacred texts, and learned rabbis who interpret those texts  
 T ▫ Covenant (biblical) ▫ begins with ▫ 2 ▫ Covenant\_(biblical) ▫ Covenant ▫ According to Jewish tradition, Judaism Covenant between God and Abraham (ca. the patriarch and progenitor of the Jewish

T □ Names of God in Judaism □ begins with Covenant □ 3 □ Names\_of\_God\_in\_Judaism □ God □ According to Jewish tradition, Judaism Covenant between God and Abraham (ca. the patriarch and progenitor of the Jewish

T □ Abraham □ begins with Covenant □ 3 □ Abraham □ Abraham □ According to Jewish tradition, Judaism Covenant between God and Abraham (ca. the patriarch and progenitor of the Jewish

T □ Patriarchs (Bible) □ begins with Covenant □ 3 □ Patriarchs\_(Bible) □ patriarch □ According to Jewish tradition, Judaism Covenant between God and Abraham (ca. the patriarch and progenitor of the Jewish

T □ Jewish principles of faith □ adhered to number □ 3 □ Jewish\_principles\_of\_faith □ religious principles □ Throughout the ages, Judaism has adhered of religious principles, the most important belief in a single, omniscient, omnipotent, transcendent God, who created the universe continues to govern it.

T □ Omniscience □ important which is belief □ 4 □ Omniscience □ omniscient □ Throughout the ages, Judaism has adhered of religious principles, the most important belief in a single, omniscient, omnipotent, transcendent God, who created the universe continues to govern it.

T □ Omnipotence □ transcendent God , who created universe □ 5 □ Omnipotence □ omnipotent □ Throughout the ages, Judaism has adhered of religious principles, the most important belief in a single, omniscient, omnipotent, transcendent God, who created the universe continues to govern it.

T □ Benevolence □ transcendent God , who created universe □ 5 □ Benevolence □ benevolent □ Throughout the ages, Judaism has adhered of religious principles, the most important belief in a single, omniscient, omnipotent, transcendent God, who created the universe continues to govern it.

T □ Transcendence (religion) □ God , who created universe □ 4 □ Transcendence\_(religion) □ transcendent □ Throughout the ages, Judaism has adhered of religious principles, the most important belief in a single, omniscient, omnipotent, transcendent God, who created the universe continues to govern it.

T □ Creation according to Genesis □ universe and continues to govern it □ 6 □ Creation\_according\_to\_Genesis □ created the universe □ Throughout the ages, Judaism has adhered of religious principles, the most important belief in a single, omniscient, omnipotent, transcendent God, who created the universe continues to govern it.

T □ Israelite □ God established covenant □ 3 □ Israelite □ Israelites □ According to most branches, God established covenant with the Israelites and their descendants, revealed his laws and commandments to Mount Sinai in the form of both the Written Torah.

T □ 613 Mitzvot □ their descendants , and revealed his laws □ 6 □ 613\_Mitzvot □ commandments □ According to most branches, God established covenant with the Israelites and their descendants, revealed his laws and commandments to Mount Sinai in the form of both the Written Torah.

T □ Moses □ their descendants , and revealed his laws □ 6 □ Moses □ Moses □ According to most branches, God established covenant with the Israelites and their descendants, revealed his laws and commandments to Mount Sinai in the form of both the Written Torah.

T □ Biblical Mount Sinai □ their descendants , and revealed his laws □ 6 □ Biblical\_Mount\_Sinai □ Mount Sinai □ According to most branches, God established covenant with the Israelites and their descendants, revealed his laws and commandments to Mount Sinai in the form of both the Written Torah.

T □ Torah □ their descendants , and revealed his laws □ 6 □ Torah □ Written □ According to most branches, God established covenant with the Israelites and their descendants, revealed his laws and commandments to Mount Sinai in the form of both the Written Torah.

T □ Oral Torah □ their descendants , and revealed his laws □ 6 □ Oral\_Torah □ Oral Torah □ According to most branches, God established covenant with the Israelites and their descendants, revealed his laws and commandments to Mount Sinai in the form of both the Written Torah.

T □ Karaite Judaism □ holds that Written Torah □ 4 □ Karaite\_Judaism □ Karaite Judaism □ However, Karaite Judaism holds that only Torah was revealed.

T □ Torah study □ valued □ 1 □ Torah\_study □ Torah study □ Judaism has traditionally valued Torah observance of the commandments recorded and expounded in the Talmud.

T □ Talmud □ Torah and expounded in □ 4 □ Talmud □ Talmud □ Judaism has traditionally valued Torah observance of the commandments recorded and expounded in the Talmud.

### John Cena (242)

T □ United States □ 4 ] is American actor □ 4 □ United\_States □ American □ John Felix Anthony Cena[6] (born April American actor, hip hop musician, and wrestler.

T □ Actor □ 4 ] is American □ 3 □ Actor □ actor □ John Felix Anthony Cena[6] (born April American actor, hip hop musician, and wrestler.

T □ Hip hop music □ 4 ] is American actor □ 4 □ Hip\_hop\_music □ hip hop musician □ John Felix Anthony Cena[6] (born April American actor, hip hop musician, and wrestler.

T □ Professional wrestling □ 4 ] is American actor □ 4 □ Professional\_wrestling □ wrestler □ John Felix Anthony Cena[6] (born April American actor, hip hop musician, and wrestler.

T □ World Wrestling Entertainment □ He employed by □ 3 □ World\_Wrestling\_Entertainment □ World Wrestling Entertainment □ He is currently employed by World Wrestling Entertainment (WWE) working on their Raw

T □ WWE Raw □ World Wrestling Entertainment ( WWE ) working on their Raw brand □ 9 □ WWE\_Raw □ Raw □ He is currently employed by World Wrestling Entertainment (WWE) working on their Raw

T □ WWE Brand Extension □ World Wrestling Entertainment ( WWE ) working on their Raw □ 8 □ WWE\_Brand\_Extension □ brand □ He is currently employed by World Wrestling Entertainment (WWE) working on their Raw

T □ World Heavyweight Championship (professional wrestling) □ Cena is five-time □ 3 □ World\_Heavyweight\_Championship\_(professional\_wrestling) □ World Champion □ In his WWE career, Cena is a five-time (three-time WWE Champion and two-time Heavyweight Champion),[7] three-time United Champion,[8] and a two-time World Tag Champion.

T □ List of WWE Champions □ Cena is five-time World Champion □ 5 □ List\_of\_WWE\_Champions □ three-time □ In his WWE career, Cena is a five-time (three-time WWE Champion and two-time Heavyweight Champion),[7] three-time United Champion,[8] and a two-time World Tag Champion.

T ▫ WWE Championship ▫ Cena is five-time World Champion ▫ 5 ▫ WWE\_Championship ▫ WWE Champion ▫ In his WWE career, Cena is a five-time (three-time WWE Champion and two-time Heavyweight Champion),[7] three-time United Champion,[8] and a two-time World Tag Champion.

T ▫ List of World Heavyweight Champions (WWE) ▫ Cena is five-time World Champion ▫ 5 ▫ List\_of\_World\_Heavyweight\_Champions\_(WWE) ▫ two-time ▫ In his WWE career, Cena is a five-time (three-time WWE Champion and two-time Heavyweight Champion),[7] three-time United Champion,[8] and a two-time World Tag Champion.

F ▫ List of WWE United States Champions ▫ Cena is five-time World Champion ▫ 5 ▫ List\_of\_WWE\_United\_States\_Champions ▫ three-time ▫ In his WWE career, Cena is a five-time (three-time WWE Champion and two-time Heavyweight Champion),[7] three-time United Champion,[8] and a two-time World Tag Champion.

F ▫ WWE United States Championship ▫ Cena is five-time World Champion ▫ 5 ▫ WWE\_United\_States\_Championship ▫ United States Champion ▫ In his WWE career, Cena is a five-time (three-time WWE Champion and two-time Heavyweight Champion),[7] three-time United Champion,[8] and a two-time World Tag Champion.

F ▫ List of World Tag Team Champions (WWE) ▫ Cena is five-time World Champion ▫ 5 ▫ List\_of\_World\_Tag\_Team\_Champions\_(WWE) ▫ two-time ▫ In his WWE career, Cena is a five-time (three-time WWE Champion and two-time Heavyweight Champion),[7] three-time United Champion,[8] and a two-time World Tag Champion.

F ▫ World Tag Team Championship (WWE) ▫ Cena is five-time World Champion ▫ 5 ▫ World\_Tag\_Team\_Championship\_(WWE) ▫ World Tag Team Champion ▫ In his WWE career, Cena is a five-time (three-time WWE Champion and two-time Heavyweight Champion),[7] three-time United Champion,[8] and a two-time World Tag Champion.

T ▫ Royal Rumble (2008) ▫ He won ▫ 2 ▫ Royal\_Rumble\_(2008) ▫ 2008 Royal Rumble ▫ [9] He also won the 2008 Royal Rumble.

T ▫ Ultimate Pro Wrestling ▫ Cena trained in and wrestled for ▫ 6 ▫ Ultimate\_Pro\_Wrestling ▫ Ultimate Pro Wrestling ▫ [10] Before being promoted to the main Cena trained in and wrestled for Ultimate and Ohio Valley Wrestling, holding the top promotions.

T ▫ Ohio Valley Wrestling ▫ , holding top titles both ▫ 4 ▫ Ohio\_Valley\_Wrestling ▫ Ohio Valley Wrestling ▫ [10] Before being promoted to the main Cena trained in and wrestled for Ultimate and Ohio Valley Wrestling, holding the top promotions.

T ▫ Professional wrestling promotion ▫ Ohio Valley Wrestling , holding top titles both ▫ 7 ▫ Professional\_wrestling\_promotion ▫ promotions ▫ [10] Before being promoted to the main Cena trained in and wrestled for Ultimate and Ohio Valley Wrestling, holding the top promotions.

T ▫ You Can't See Me ▫ rap album You Ca See Me ▫ 6 ▫ You\_Can%27t\_See\_Me ▫ You Can't See Me ▫ Outside of wrestling, Cena has released You Can't See Me, which debuted at #15 Billboard 200 chart,[13] and starred in the The Marine (2006) and 12 Rounds (2009).

T ▫ Billboard 200 ▫ Me , which debuted at # 15 ▫ 6 ▫ Billboard\_200 ▫ Billboard</i> 200 ▫ Outside of wrestling, Cena has released You Can't See Me, which debuted at #15 Billboard 200 chart,[13] and starred in the The Marine (2006) and 12 Rounds (2009).

T ▫ The Marine ▫ feature films Marine ▫ 3 ▫ The\_Marine ▫ The Marine ▫ Outside of wrestling, Cena has released You Can't See Me, which debuted at #15 Billboard 200 chart,[13] and starred in the The Marine (2006) and 12 Rounds (2009).

T ▫ 12 Rounds (film) ▫ feature films Marine ▫ 3 ▫ 12\_Rounds\_(film) ▫ 12 Rounds ▫ Outside of wrestling, Cena has released You Can't See Me, which debuted at #15 Billboard 200 chart,[13] and starred in the The Marine (2006) and 12 Rounds (2009).

T ▫ Manhunt (2001 TV series) ▫ television shows including Manhunt, Deal or No Deal,[Saturday Night Live, and Punk'd.

T ▫ Deal or No Deal (U.S. game show) ▫ television shows including Manhunt ▫ 4 ▫ Deal\_or\_No\_Deal\_(U.S.\_game\_show) ▫ Deal or No Deal ▫ [14][15] He has also made appearances shows including Manhunt, Deal or No Deal,[Saturday Night Live, and Punk'd.

T ▫ MADtv ▫ television shows including Manhunt ▫ 4 ▫ MADtv ▫ MADtv ▫ [14][15] He has also made appearances shows including Manhunt, Deal or No Deal,[Saturday Night Live, and Punk'd.

T ▫ Saturday Night Live ▫ television shows including Manhunt ▫ 4 ▫ Saturday\_Night\_Live ▫ Saturday Night Live ▫ [14][15] He has also made appearances shows including Manhunt, Deal or No Deal,[Saturday Night Live, and Punk'd.

T ▫ Punk'd ▫ television shows including Manhunt ▫ 4 ▫ Punk%27d ▫ Punk'd ▫ [14][15] He has also made appearances shows including Manhunt, Deal or No Deal,[Saturday Night Live, and Punk'd.

T ▫ Fast Cars and Superstars: The Gillette Young Guns Celebrity Race ▫ Cena was contestant ▫ 3 ▫ Fast\_Cars\_and\_Superstars:\_The\_Gillette\_Young\_Guns\_Celebrity\_Race ▫ Fast Cars and Superstars: The Gillette Young Guns Celebrity Race ▫ Cena was also a contestant on Fast Cars Superstars: The Gillette Young Guns Celebrity where he made it to the final round before eliminated, placing third in the overall competition.

#### **Kenya (850 =second one of two in 849)**

T ▫ East Africa ▫ Republic is country ▫ 3 ▫ East\_Africa ▫ East Africa ▫ The Republic of Kenya is a country in

T ▫ Indian Ocean ▫ Lying along ▫ 2 ▫ Indian\_Ocean ▫ Indian Ocean ▫ Lying along the Indian Ocean, at the equator, bordered by Ethiopia (north), Tanzania (south), Uganda Sudan (northwest).

T ▫ Equator ▫ bordered by Ethiopia ▫ 3 ▫ Equator ▫ equator ▫ Lying along the Indian Ocean, at the equator, bordered by Ethiopia (north), Tanzania (south), Uganda Sudan (northwest).

T ▫ Ethiopia ▫ bordered by ▫ 2 ▫ Ethiopia ▫ Ethiopia ▫ Lying along the Indian Ocean, at the equator, bordered by Ethiopia (north), Tanzania (south), Uganda Sudan (northwest).

T ▫ Somalia ▫ bordered by Ethiopia ▫ 3 ▫ Somalia ▫ Somalia ▫ Lying along the Indian Ocean, at the equator, bordered by Ethiopia (north), Tanzania (south), Uganda Sudan (northwest).

T ▫ Tanzania ▫ bordered by Ethiopia ▫ 3 ▫ Tanzania ▫ Tanzania ▫ Lying along the Indian Ocean, at the equator, bordered by Ethiopia (north), Tanzania (south), Uganda Sudan (northwest).

T ▫ Uganda ▫ bordered by Ethiopia ▫ 3 ▫ Uganda ▫ Uganda ▫ Lying along the Indian Ocean, at the equator, bordered by Ethiopia (north), Tanzania (south), Uganda Sudan (northwest).

T ▫ Lake Victoria ▫ bordered by Ethiopia ▫ 3 ▫ Lake\_Victoria ▫ Lake Victoria ▫ Lying along the Indian Ocean, at the equator, bordered by Ethiopia (north), Tanzania (south), Uganda Sudan (northwest).



T ▫ Sudan ▫ bordered by Ethiopia ▫ 3 ▫ Sudan ▫ Sudan ▫ Lying along the Indian Ocean, at the equator, bordered by Ethiopia (north), Tanzania (south), Uganda Sudan (northwest).

T ▫ Nairobi ▫ capital city is ▫ 3 ▫ Nairobi ▫ Nairobi ▫ The capital city is Nairobi Cairo).

F ▫ Cairo, Egypt ▫ capital city is Nairobi ▫ 4 ▫ Cairo, Egypt ▫ Cairo ▫ The capital city is Nairobi Cairo).

T ▫ Mount Kenya ▫ country named after ▫ 3 ▫ Mount\_Kenya ▫ Mount Kenya ▫ The country is named after Mount Kenya, significant landmark and the second among mountain peaks of Africa,[4][5] and both usually pronounced /É?kiÉ?njÉ?/[6] in English the native pronunciation and the one intended original transcription Kenia was [É?kenia].

T ▫ Highest mountain peaks of Africa ▫ country named after Mount Kenya ▫ 5 ▫ Highest\_mountain\_peaks\_of\_Africa ▫ highest mountain peaks of Africa ▫ The country is named after Mount Kenya, significant landmark and the second among mountain peaks of Africa,[4][5] and both usually pronounced /É?kiÉ?njÉ?/[6] in English the native pronunciation and the one intended original transcription Kenia was [É?kenia].

T ▫ Jomo Kenyatta ▫ current pronunciation became widespread ▫ 4 ▫ Jomo\_Kenyatta ▫ Jomo Kenyatta ▫ [7] During the presidency of Jomo Kenyatta 1960s, the current pronunciation /É?kÉ?widespread in English because his name according to the original native pronunciation.

T ▫ British East Africa ▫ known as British East Africa Protectorate ▫ 6 ▫ British\_East\_Africa ▫ British East Africa ▫ [8] Before 1920, the area now known as known as the British East Africa Protectorate there was no need to mention mount when the mountain.

### Linux (488)

T ▫ Unix-like ▫ generic term referring to Unix-like computer ▫ 6 ▫ Unix-like ▫ Unix-like ▫ Linux (commonly pronounced /É?lÉ?nÉ?variants exist[3]) is a generic term referring computer operating systems based on the

T ▫ Operating system ▫ systems based on Linux kernel ▫ 5 ▫ Operating\_system ▫ operating systems ▫ Linux (commonly pronounced /É?lÉ?nÉ?variants exist[3]) is a generic term referring computer operating systems based on the

T ▫ Linux kernel ▫ systems based on ▫ 3 ▫ Linux\_kernel ▫ Linux kernel ▫ Linux (commonly pronounced /É?lÉ?nÉ?variants exist[3]) is a generic term referring computer operating systems based on the

T ▫ Free and open source software ▫ Their development is one ▫ 4 ▫ Free\_and\_open\_source\_software ▫ free and open source software ▫ Their development is one of the most prominent examples of free and open source software collaboration; typically all the underlying be used, freely modified, and redistributed under the terms of the GNU GPL[4] and licenses.

N ▫ Source code ▫ all underlying ▫ 2 ▫ Source\_code ▫ source code ▫ Their development is one of the most prominent examples of free and open source software collaboration; typically all the underlying be used, freely modified, and redistributed under the terms of the GNU GPL[4] and licenses.

T ▫ GNU GPL license ▫ source code used , modified , and redistributed by anyone ▫ 8 ▫ GNU\_GPL\_license ▫ GNU GPL ▫ Their development is one of the most prominent examples of free and open source software collaboration; typically all the underlying be used, freely modified, and redistributed under the terms of the GNU GPL[4] and licenses.

T ▫ Server (computing) ▫ it installed on wide variety ▫ 5 ▫ Server\_(computing) ▫ servers ▫ Linux is predominantly known for its use although it is installed on a wide variety hardware, ranging from embedded devices phones to supercomputers.

T ▫ Hardware ▫ wide variety , ranging from embedded devices ▫ 6 ▫ Hardware ▫ hardware ▫ Linux is predominantly known for its use although it is installed on a wide variety hardware, ranging from embedded devices phones to supercomputers.

T ▫ Embedded devices ▫ wide variety , ranging from ▫ 4 ▫ Embedded\_devices ▫ embedded devices ▫ Linux is predominantly known for its use although it is installed on a wide variety hardware, ranging from embedded devices phones to supercomputers.

T ▫ Mobile phones ▫ wide variety , ranging from embedded devices ▫ 6 ▫ Mobile\_phones ▫ mobile phones ▫ Linux is predominantly known for its use although it is installed on a wide variety hardware, ranging from embedded devices phones to supercomputers.

T ▫ Supercomputers ▫ wide variety , ranging from embedded devices ▫ 6 ▫ Supercomputers ▫ supercomputers ▫ Linux is predominantly known for its use although it is installed on a wide variety hardware, ranging from embedded devices phones to supercomputers.

T ▫ Linux distribution ▫ , installed on both desktop ▫ 4 ▫ Linux\_distribution ▫ Linux distributions ▫ [5] Linux distributions, installed on both laptop computers, have become increasingly commonplace in recent years, owing largely popular Ubuntu distribution and to the emergence netbooks.

T ▫ Desktop computer ▫ Linux distributions , installed on both ▫ 5 ▫ Desktop\_computer ▫ desktop ▫ [5] Linux distributions, installed on both laptop computers, have become increasingly commonplace in recent years, owing largely popular Ubuntu distribution and to the emergence netbooks.

F ▫ Laptop ▫ computers , become commonplace ▫ 3 ▫ Laptop ▫ laptop ▫ [5] Linux distributions, installed on both laptop computers, have become increasingly commonplace in recent years, owing largely popular Ubuntu distribution and to the emergence netbooks.

T ▫ Ubuntu ▫ recent years , owing to popular Ubuntu distribution ▫ 7 ▫ Ubuntu ▫ Ubuntu ▫ [5] Linux distributions, installed on both laptop computers, have become increasingly commonplace in recent years, owing largely popular Ubuntu distribution and to the emergence netbooks.

T ▫ Netbooks ▫ recent years , owing to popular Ubuntu distribution ▫ 7 ▫ Netbooks ▫ netbooks ▫ [5] Linux distributions, installed on both laptop computers, have become increasingly commonplace in recent years, owing largely popular Ubuntu distribution and to the emergence netbooks.

T ▫ Linux kernel ▫ Linux " comes from ▫ 3 ▫ Linux\_kernel ▫ Linux kernel ▫ The name "Linux" comes from the Linux written in 1991 by Linus Torvalds.

T ▫ Linus Torvalds ▫ Linux kernel , written in ▫ 1 ▫ 991 ▫ 5 ▫ Linus\_Torvalds ▫ Linus Torvalds The name "Linux" comes from the Linux written in 1991 by Linus Torvalds.

N ▫ System utility ▫ rest , including ▫ 2 ▫ System\_utility ▫ utilities ▫ The rest of the system, including utilities usually comes from the GNU operating system announced in 1983 by Richard Stallman.

N ▫ Library (computer science) ▫ rest , including utilities ▫ 3 ▫ Library\_(computer\_science) ▫ libraries ▫ The rest of the system, including utilities usually comes from the GNU operating system announced in 1983 by Richard Stallman.

F ▫ GNU ▫ operating system ▫ 2 ▫ GNU ▫ GNU ▫ The rest of the system, including utilities usually comes from the GNU operating system announced in 1983 by Richard Stallman.

F Richard Stallman system announced in 1983 Richard Stallman Richard Stallman The rest of the system, including utilities usually comes from the GNU operating system announced in 1983 by Richard Stallman.  
F Free Software Foundation's preferred name 3 Free Software Foundation Free Software Foundation The GNU contribution is the basis for the Foundation's preferred name GNU/Linux.

### Star Wars: The Clone Wars (film (855 =second one of two in 854)

T 2008 in film Clone Wars is 28 CGI 5 2008\_in\_film 2008 Star Wars: The Clone Wars is a 2008 CGI science fiction film that follows the continuing within the Star Wars universe.  
T Computer-generated imagery 2008 CGI animated science fiction film 6 Computer-generated\_imagery CGI Star Wars: The Clone Wars is a 2008 CGI science fiction film that follows the continuing within the Star Wars universe.  
T Animation Clone Wars is 28 CGI 5 Animation animated Star Wars: The Clone Wars is a 2008 CGI science fiction film that follows the continuing within the Star Wars universe.  
T Science fiction film 2008 CGI animated 3 Science\_fiction\_film science fiction film Star Wars: The Clone Wars is a 2008 CGI science fiction film that follows the continuing within the Star Wars universe.  
T Star Wars continuing adventures 2 Star\_Wars Star Wars Star Wars: The Clone Wars is a 2008 CGI science fiction film that follows the continuing within the Star Wars universe.  
T Star Wars Episode II: Attack of the Clones It set between Star Wars Episode II 7 Star\_Wars\_Episode\_II:\_Attack\_of\_the\_Clones Star Wars Episode II: Attack of the Clones It is set between Star Wars Episode II: Clones, and Star Wars Episode III: Revenge  
T Star Wars Episode III: Revenge of the Sith It set between Star Wars Episode II 7 Star\_Wars\_Episode\_III:\_Revenge\_of\_the\_Sith Star Wars Episode III: Revenge of the Sith It is set between Star Wars Episode II: Clones, and Star Wars Episode III: Revenge  
T Grauman's Egyptian Theatre Grauman's Egyptian Theatre and released in theaters 7 Grauman's\_Egyptian\_Theatre Grauman's Egyptian Theatre The film premiered on August 10, 2008 Egyptian Theatre and was released in theaters 14, 2008 across Australia States, Canada and the United Kingdom  
N Warner Bros. 0 Warner\_Bros. Warner Bros.  
T Star Wars Clone Wars is seventh Star Wars feature 7 Star\_Wars Star Wars Star Wars: The Clone Wars is the seventh feature to be released in theaters in North eighth in Europe, as Caravan of Courage cinematic release there in 1984) and is theatrical film for the franchise, and the distributed by Warner Bros.  
T North America seventh Star Wars feature to released in theaters 8 North\_America North America Star Wars: The Clone Wars is the seventh feature to be released in theaters in North eighth in Europe, as Caravan of Courage cinematic release there in 1984) and is theatrical film for the franchise, and the distributed by Warner Bros.  
F Europe Caravan received cinematic release 4 Europe Europe Star Wars: The Clone Wars is the seventh feature to be released in theaters in North eighth in Europe, as Caravan of Courage cinematic release there in 1984) and is theatrical film for the franchise, and the distributed by Warner Bros.  
T Caravan of Courage received cinematic release 3 Caravan\_of\_Courage Caravan of Courage Star Wars: The Clone Wars is the seventh feature to be released in theaters in North eighth in Europe, as Caravan of Courage cinematic release there in 1984) and is theatrical film for the franchise, and the distributed by Warner Bros.  
N Warner Bros. 0 Warner\_Bros. Warner Bros. instead of 20th Century Fox.  
N 20th Century Fox 0 20th\_Century\_Fox 20th Century Fox instead of 20th Century Fox.  
F George Lucas first theatrical Star Wars film to directed by someone other 10 George\_Lucas George Lucas It is the first theatrical Star Wars film to someone other than George Lucas since Jedi's Richard Marquand.  
T Star Wars Episode VI: Return of the Jedi first theatrical Star Wars film to directed by someone other 10 Star\_Wars\_Episode\_VI:\_Return\_of\_the\_Jedi Return of the Jedi It is the first theatrical Star Wars film to someone other than George Lucas since Jedi's Richard Marquand.  
T Richard Marquand first theatrical Star Wars film to directed by someone other 10 Richard\_Marquand Richard Marquand It is the first theatrical Star Wars film to someone other than George Lucas since Jedi's Richard Marquand.  
F John Williams only theatrical Star Wars film scored by 7 John\_Williams John Williams It is also the only theatrical Star Wars film John Williams; Kevin Kiner was hired to new music, which was combined with selected Williams melodies from previous Star Wars  
T Star Wars: The Clone Wars (2008 TV series) Clone Wars intended to act as introduction 7 Star\_Wars:\_The\_Clone\_Wars\_(2008\_TV\_series) television series The Clone Wars is intended to act as an the television series of the same name, October 3, 2008.  
T Star Wars: Clone Wars (2003 TV series) It set in same time period 6 Star\_Wars:\_Clone\_Wars\_(2003\_TV\_series) 2003 series It is set in roughly the same time period 2003 series.

### Iraq War (712)

T Gulf War, known as Second Persian 4 Gulf\_War Gulf War The Iraq War, also known as the Second War, the Occupation of Iraq,[41] or Operation Freedom,[42] is an ongoing[43][44] military which began on March 20, 2003 with the by a multinational force now led by and entirely of troops from the United States Kingdom.  
T Ongoing conflicts 42 ] is 2 Ongoing\_conflicts ongoing The Iraq War, also known as the Second War, the Occupation of Iraq,[41] or Operation Freedom,[42] is an ongoing[43][44] military which began on March 20, 2003 with the by a multinational force now led by and entirely of troops from the United States Kingdom.  
T Military campaign which began on March 20 5 Military\_campaign military campaign The Iraq War, also known as the Second War, the Occupation of Iraq,[41] or Operation Freedom,[42] is an ongoing[43][44] military which began on March 20, 2003 with the by a multinational force now led by and entirely of troops from the United States Kingdom.  
T 2003 invasion of Iraq military campaign which began on March 20 7 2003\_invasion\_of\_Iraq invasion of Iraq The Iraq War, also known as the Second War, the Occupation of Iraq,[41] or Operation Freedom,[42] is an ongoing[43][44] military which began on March 20, 2003 with the by a multinational force now led by and entirely of troops from the United States Kingdom.

T ▫ Multinational force in Iraq ▫ led by and composed ▫ 4 ▫ Multinational\_force\_in\_Iraq ▫ multinational force ▫ The Iraq War, also known as the Second War, the Occupation of Iraq,[41] or Operation Freedom,[42] is an ongoing[43][44] military which began on March 20, 2003 with the by a multinational force now led by and entirely of troops from the United States Kingdom.

T ▫ United States ▫ multinational force led by and composed ▫ 6 ▫ United\_States ▫ United States ▫ The Iraq War, also known as the Second War, the Occupation of Iraq,[41] or Operation Freedom,[42] is an ongoing[43][44] military which began on March 20, 2003 with the by a multinational force now led by and entirely of troops from the United States Kingdom.

T ▫ United Kingdom ▫ multinational force led by and composed ▫ 6 ▫ United\_Kingdom ▫ United Kingdom ▫ The Iraq War, also known as the Second War, the Occupation of Iraq,[41] or Operation Freedom,[42] is an ongoing[43][44] military which began on March 20, 2003 with the by a multinational force now led by and entirely of troops from the United States Kingdom.

N ▫ Spain ▫ claimed that Iraq 's alleged possession ▫ 5 ▫ Spain ▫ Spain ▫ Prior to the war, the governments of the Spain claimed that Iraq's alleged possession of mass destruction (WMD) posed an imminent their security and that of their coalition allies.

T ▫ Iraq and weapons of mass destruction ▫ Spain claimed that Iraq 's alleged possession ▫ 6 ▫ Iraq\_and\_weapons\_of\_mass\_destruction ▫ weapons of mass destruction ▫ Prior to the war, the governments of the Spain claimed that Iraq's alleged possession of mass destruction (WMD) posed an imminent their security and that of their coalition allies.

T ▫ United Nations Monitoring, Verification and Inspection Commission ▫ United Nations weapons inspectors found no evidence ▫ 7 ▫ United\_Nations\_Monitoring\_Verification\_and\_Inspection\_Commission ▫ weapons inspectors ▫ [46][47][48] United Nations weapons inspectors evidence of WMD, giving support to earlier poor intelligence on the subject.

T ▫ Iraq Survey Group ▫ U. S. -led ▫ 3 ▫ Iraq\_Survey\_Group ▫ Iraq Survey Group ▫ [49][50][51][52] After the invasion, the U.Survey Group concluded that programs in 1991 and had no active programs of the invasion, but that they intended to production if the Iraq sanctions were lifted.

N ▫ Iraq sanctions ▫ null ▫ 0 ▫ Iraq\_sanctions ▫ Iraq sanctions ▫ [49][50][51][52] After the invasion, the U.Survey Group concluded that programs in 1991 and had no active programs of the invasion, but that they intended to production if the Iraq sanctions were lifted.

T ▫ Saddam Hussein ▫ Some U. S. officials accused Saddam Hussein ▫ 7 ▫ Saddam\_Hussein ▫ Saddam Hussein ▫ [54] Some U.S. officials also accused Saddam of harboring and supporting Al-Qaeda,[55] evidence of any collaborative relationship

T ▫ Al-Qaeda ▫ Saddam Hussein harboring and supporting ▫ 5 ▫ Al-Qaeda ▫ Al-Qaeda ▫ [54] Some U.S. officials also accused Saddam of harboring and supporting Al-Qaeda,[55] evidence of any collaborative relationship

T ▫ Rationale for the Iraq War ▫ invasion stated by U. S. officials ▫ 6 ▫ Rationale\_for\_the\_Iraq\_War ▫ reasons for the invasion ▫ [56][57] Other reasons for the invasion officials included Iraq's financial support Palestinian suicide bombers,[58] Iraqi government rights abuses,[59] and an effort on the part coalition forces to spread democracy in region.

F ▫ Palestine ▫ U. S. officials included Iraq 's financial support ▫ 7 ▫ Palestine ▫ Palestinian ▫ [56][57] Other reasons for the invasion officials included Iraq's financial support Palestinian suicide bombers,[58] Iraqi government rights abuses,[59] and an effort on the part coalition forces to spread democracy in region.

F ▫ Suicide bomber ▫ U. S. officials included Iraq 's financial support ▫ 7 ▫ Suicide\_bomber ▫ suicide bombers ▫ [56][57] Other reasons for the invasion officials included Iraq's financial support Palestinian suicide bombers,[58] Iraqi government rights abuses,[59] and an effort on the part coalition forces to spread democracy in region.

F ▫ Human rights ▫ U. S. officials included Iraq 's financial support ▫ 7 ▫ Human\_rights ▫ human rights ▫ [56][57] Other reasons for the invasion officials included Iraq's financial support Palestinian suicide bombers,[58] Iraqi government rights abuses,[59] and an effort on the part coalition forces to spread democracy in region.

T ▫ Democracy ▫ part to spread ▫ 3 ▫ Democracy ▫ democracy ▫ [56][57] Other reasons for the invasion officials included Iraq's financial support Palestinian suicide bombers,[58] Iraqi government rights abuses,[59] and an effort on the part coalition forces to spread democracy in region.

T ▫ Oil reserves ▫ Iraq 's oil reserves were factor ▫ 5 ▫ Oil\_reserves ▫ oil reserves ▫ [60] Some officials said Iraq in the decision to invade,[61][62][63][64]officials denied this.

T ▫ 2003 invasion of Iraq ▫ led to occupation ▫ 3 ▫ 2003\_invasion\_of\_Iraq ▫ invasion of Iraq ▫ The invasion of Iraq led to an occupation eventual capture and execution of Saddam

T ▫ Post-invasion Iraq, 2003â??present ▫ invasion led to ▫ 3 ▫ Post-invasion\_Iraq\_2003%E2%80%93present ▫ occupation ▫ The invasion of Iraq led to an occupation eventual capture and execution of Saddam

T ▫ Execution of Saddam Hussein ▫ invasion led to occupation ▫ 4 ▫ Execution\_of\_Saddam\_Hussein ▫ execution ▫ The invasion of Iraq led to an occupation eventual capture and execution of Saddam

F ▫ Saddam Hussein ▫ invasion led to occupation ▫ 4 ▫ Saddam\_Hussein ▫ Saddam Hussein ▫ The invasion of Iraq led to an occupation eventual capture and execution of Saddam

T ▫ Asymmetric warfare ▫ various sectarian groups led to ▫ 5 ▫ Asymmetric\_warfare ▫ asymmetric warfare ▫ Violence against coalition forces and among sectarian groups soon led to asymmetric Iraqi insurgency, strife between many Sunni Iraqi groups, and al-Qaeda operations in

T ▫ Iraqi insurgency ▫ , strife between many Sunni ▫ 4 ▫ Iraqi\_insurgency ▫ Iraqi insurgency ▫ Violence against coalition forces and among sectarian groups soon led to asymmetric Iraqi insurgency, strife between many Sunni Iraqi groups, and al-Qaeda operations in

T ▫ Sunni Islam ▫ Iraqi insurgency , strife between many ▫ 5 ▫ Sunni\_Islam ▫ Sunni ▫ Violence against coalition forces and among sectarian groups soon led to asymmetric Iraqi insurgency, strife between many Sunni Iraqi groups, and al-Qaeda operations in

T ▫ Shia Islam ▫ Iraqi insurgency , strife between many Sunni ▫ 6 ▫ Shia\_Islam ▫ Shia ▫ Violence against coalition forces and among sectarian groups soon led to asymmetric Iraqi insurgency, strife between many Sunni Iraqi groups, and al-Qaeda operations in

T ▫ Al-Qaeda ▫ Iraqi insurgency , strife between many Sunni ▫ 6 ▫ Al-Qaeda ▫ al-Qaeda ▫ Violence against coalition forces and among sectarian groups soon led to asymmetric Iraqi insurgency, strife between many Sunni Iraqi groups, and al-Qaeda operations in

T ▫ Al-Qaeda in Iraq ▫ Iraqi insurgency , strife between many Sunni ▫ 6 ▫ Al-Qaeda\_in\_Iraq ▫ operations in Iraq ▫ Violence against coalition forces and among sectarian groups soon led to asymmetric Iraqi insurgency, strife between many Sunni Iraqi groups, and al-Qaeda operations in

N Casualties of the Iraq War through 2007 ranges 3 Casualties\_of\_the\_Iraq\_War number of Iraqis killed 6869 The number of Iraqis killed through from "a conservative cautious minimum" 85,000 civilians7071 to a survey estimate 1,000,000 citizens.

N United Nations High Commissioner for Refugees estimates war 2 United\_Nations\_High\_Commissioner\_for\_Refugees UNHCR 34 UNHCR estimates the war uprooted Iraqis through April 2008 (about 16% of Iraq), two million of whom had fled to neighbouring countries72 fleeing a humanitarian situation Cross described in March 2008 as "among critical in the world".

N Refugees of Iraq UNHCR estimates war 3 Refugees\_of\_Iraq uprooted 4.7 million Iraqis 34 UNHCR estimates the war uprooted Iraqis through April 2008 (about 16% of Iraq), two million of whom had fled to neighbouring countries72 fleeing a humanitarian situation Cross described in March 2008 as "among critical in the world".

N International Red Cross and Red Crescent Movement described in March 2008 4 International\_Red\_Cross\_and\_Red\_Crescent\_Movement Red Cross 34 UNHCR estimates the war uprooted Iraqis through April 2008 (about 16% of Iraq), two million of whom had fled to neighbouring countries72 fleeing a humanitarian situation Cross described in March 2008 as "among critical in the world".

T Failed States Index Iraq was fifth 3 Failed\_States\_Index Failed States Index 74 In August 2008, Iraq Index.

T U.S.-Iraq Status of Forces Agreement Iraqi governments approved Status 4 U.S.-Iraq\_Status\_of\_Forces\_Agreement Status of Forces Agreement 7677 In late 2008, the approved a Status of Forces Agreement January 1, 2012.

T Barack Obama President Barack Obama announced 18-month withdrawal window 7 Barack\_Obama Barack Obama President Barack Obama announced an withdrawal window for "combat forces", 30,000 to 50,000 troops "to advise and window security forces and to provide intelligence surveillance".

T Iraqi security forces 000 troops " to advise and train 6 Iraqi\_security\_forces Iraqi security forces President Barack Obama announced an withdrawal window for "combat forces", 30,000 to 50,000 troops "to advise and security forces and to provide intelligence surveillance".

N Ray Odierno Iraq , said he 3 Ray\_Odierno Ray Odierno 8283 General Ray Odierno, the top commander in Iraq, said he believes all be out of the country by the end of 2011,[forces ended combat operations on April

### Terminal Salvation (266)

T Cinema of the United States is upcoming American science fiction post-apocalyptic war film set 9 Cinema\_of\_the\_United\_States American Terminator Salvation is an upcoming American fiction post-apocalyptic war film set for 4th in Australia, June 3rd in the for the United States.

T Science fiction film is upcoming American science fiction post-apocalyptic war film set 9 Science\_fiction\_film science fiction Terminator Salvation is an upcoming American fiction post-apocalyptic war film set for 4th in Australia, June 3rd in the for the United States.

T Apocalyptic and post-apocalyptic fiction is upcoming American science fiction post-apocalyptic war film set 9 Apocalyptic\_and\_post-apocalyptic\_fiction post-apocalyptic Terminator Salvation is an upcoming American fiction post-apocalyptic war film set for 4th in Australia, June 3rd in the for the United States.

T War film is upcoming American science fiction post-apocalyptic war film set 9 War\_film war film Terminator Salvation is an upcoming American fiction post-apocalyptic war film set for 4th in Australia, June 3rd in the for the United States.

T McG Directed by 2 McG McG Directed by McG, it is the fourth film in series and stars Christian Bale as John Worthington as Marcus Wright, a cyborg is human.

N Terminator (franchise) series and stars Christian Bale 5 Terminator\_(franchise) Terminator Directed by McG, it is the fourth film in series and stars Christian Bale as John Worthington as Marcus Wright, a cyborg is human.

T Christian Bale Terminator series and stars 4 Christian\_Bale Christian Bale Directed by McG, it is the fourth film in series and stars Christian Bale as John Worthington as Marcus Wright, a cyborg is human.

T John Connor Terminator series and stars Christian Bale 6 John\_Connor John Connor Directed by McG, it is the fourth film in series and stars Christian Bale as John Worthington as Marcus Wright, a cyborg is human.

T Sam Worthington Terminator series and stars Christian Bale 6 Sam\_Worthington Sam Worthington Directed by McG, it is the fourth film in series and stars Christian Bale as John Worthington as Marcus Wright, a cyborg is human.

T Kyle Reese , played by Anton Yelchin 4 Kyle\_Reese Kyle Reese It also introduces a young version of the Kyle Reese, played by Anton Yelchin, and origins of the T-800 Model 101 Terminator, Arnold Schwarzenegger and Roland Kickinger.

T Anton Yelchin Kyle Reese , played by 4 Anton\_Yelchin Anton Yelchin It also introduces a young version of the Kyle Reese, played by Anton Yelchin, and origins of the T-800 Model 101 Terminator, Arnold Schwarzenegger and Roland Kickinger.

F Terminator (character) Anton Yelchin , and depicts origins 5 Terminator\_(character) T-800 Model 101 Terminator It also introduces a young version of the Kyle Reese, played by Anton Yelchin, and origins of the T-800 Model 101 Terminator, Arnold Schwarzenegger and Roland Kickinger.

T Arnold Schwarzenegger origins , played by 3 Arnold\_Schwarzenegger Arnold Schwarzenegger It also introduces a young version of the Kyle Reese, played by Anton Yelchin, and origins of the T-800 Model 101 Terminator, Arnold Schwarzenegger and Roland Kickinger.

N Roland Kickinger origins , played by Arnold Schwarzenegger 5 Roland\_Kickinger Roland Kickinger It also introduces a young version of the Kyle Reese, played by Anton Yelchin, and origins of the T-800 Model 101 Terminator, Arnold Schwarzenegger and Roland Kickinger.

T Sequel Being both 2 Sequel sequel Being both a sequel and a prequel to the Salvation, set in 2018, focuses on the war humanity and Skynet.

T Prequel Being both sequel 3 Prequel prequel Being both a sequel and a prequel to the Salvation, set in 2018, focuses on the war humanity and Skynet.

T Skynet (Terminator) 2018 , focuses on war 4 Skynet\_(Terminator) Skynet Being both a sequel and a prequel to the Salvation, set in 2018, focuses on the war humanity and Skynet.

T Terminator (character) series , which revolved around 4 Terminator\_(character) Terminators It abandons the format of previous entries which only revolved around Terminators characters traveling through time to either John Connor before the events of Judgment

### **ABBA (749 =second one of two in 748)**

T  $\square$  Swedish  $\square$  was Swedish pop music group  $\square$  5  $\square$  Swedish  $\square$  Swedish  $\square$  ABBA was a Swedish pop music group

T  $\square$  Pop music  $\square$  was Swedish pop music group  $\square$  5  $\square$  Pop\_music  $\square$  pop music  $\square$  ABBA was a Swedish pop music group

T  $\square$  Agnetha FÄÅltskog  $\square$  band consisted  $\square$  2  $\square$  Agnetha\_F%C3%A4Åltskog  $\square$  Agnetha FÄÅltskog  $\square$  The band consisted of Agnetha FÄÅltskog, Andersson, BjÄ¶rn Ulvaeus and Anni-Frid

T  $\square$  Benny Andersson  $\square$  band consisted  $\square$  2  $\square$  Benny\_Andersson  $\square$  Benny Andersson  $\square$  The band consisted of Agnetha FÄÅltskog, Andersson, BjÄ¶rn Ulvaeus and Anni-Frid

T  $\square$  BjÄ¶rn Ulvaeus  $\square$  band consisted  $\square$  2  $\square$  Bj%C3%B6rn\_Ulvaeus  $\square$  BjÄ¶rn Ulvaeus  $\square$  The band consisted of Agnetha FÄÅltskog, Andersson, BjÄ¶rn Ulvaeus and Anni-Frid

T  $\square$  Anni-Frid Lyngstad  $\square$  band consisted  $\square$  2  $\square$  Anni-Frid\_Lyngstad  $\square$  Anni-Frid Lyngstad  $\square$  The band consisted of Agnetha FÄÅltskog, Andersson, BjÄ¶rn Ulvaeus and Anni-Frid

T  $\square$  1970s in music  $\square$  They topped charts  $\square$  3  $\square$  1970s\_in\_music  $\square$  1970s  $\square$  They topped the charts worldwide from the early 1980s.

T  $\square$  1980s in music  $\square$  They topped charts  $\square$  3  $\square$  1980s\_in\_music  $\square$  1980s  $\square$  They topped the charts worldwide from the early 1980s.

T  $\square$  Acronym and initialism  $\square$  formed from first letters each  $\square$  5  $\square$  Acronym\_and\_initialism  $\square$  acronym  $\square$  The name "ABBA" is an acronym formed letters of each of the group members' given (Agnetha, Benny, BjÄ¶rn, Anni-Frid).

T  $\square$  Hook (music)  $\square$  immense international popularity employing catchy song  $\square$  6  $\square$  Hook\_(music)  $\square$  hooks  $\square$  ABBA gained immense international popularity catchy song hooks, simple lyrics, and a achieved by overdubbing the female singers' multiple harmonies.

T  $\square$  Lyrics  $\square$  immense international popularity employing catchy song hooks  $\square$  7  $\square$  Lyrics  $\square$  lyrics  $\square$  ABBA gained immense international popularity catchy song hooks, simple lyrics, and a achieved by overdubbing the female singers' multiple harmonies.

T  $\square$  Wall of Sound  $\square$  achieved by overdubbing female singers ' voices  $\square$  6  $\square$  Wall\_of\_Sound  $\square$  Wall of Sound  $\square$  ABBA gained immense international popularity catchy song hooks, simple lyrics, and a achieved by overdubbing the female singers' multiple harmonies.

T  $\square$  Overdubbing  $\square$  Wall achieved by overdubbing female singers ' voices  $\square$  7  $\square$  Overdubbing  $\square$  overdubbing  $\square$  ABBA gained immense international popularity catchy song hooks, simple lyrics, and a achieved by overdubbing the female singers' multiple harmonies.

T  $\square$  Continental Europe  $\square$  to enjoy consistent success  $\square$  4  $\square$  Continental\_Europe  $\square$  mainland Europe  $\square$  [4] ABBA was also the first pop group from Europe to enjoy consistent success in the English-speaking countries, including the the United States, Canada Rhodesia, Australia and New Zealand

T  $\square$  UK Singles Chart  $\square$  charts , including  $\square$  2  $\square$  UK\_Singles\_Chart  $\square$  United Kingdom  $\square$  [4] ABBA was also the first pop group from Europe to enjoy consistent success in the English-speaking countries, including the the United States, Canada Rhodesia, Australia and New Zealand

T  $\square$  Hot 100 Singles Sales  $\square$  charts , including United Kingdom  $\square$  4  $\square$  Hot\_100\_Singles\_Sales  $\square$  United States  $\square$  [4] ABBA was also the first pop group from Europe to enjoy consistent success in the English-speaking countries, including the the United States, Canada Rhodesia, Australia and New Zealand

T  $\square$  Canada  $\square$  charts , including United Kingdom  $\square$  4  $\square$  Canada  $\square$  Canada  $\square$  [4] ABBA was also the first pop group from Europe to enjoy consistent success in the English-speaking countries, including the the United States, Canada Rhodesia, Australia and New Zealand

T  $\square$  Republic of Ireland  $\square$  charts , including United Kingdom  $\square$  4  $\square$  Republic\_of\_Ireland  $\square$  Ireland  $\square$  [4] ABBA was also the first pop group from Europe to enjoy consistent success in the English-speaking countries, including the the United States, Canada Rhodesia, Australia and New Zealand

T  $\square$  South Africa  $\square$  charts , including United Kingdom  $\square$  4  $\square$  South\_Africa  $\square$  South Africa  $\square$  [4] ABBA was also the first pop group from Europe to enjoy consistent success in the English-speaking countries, including the the United States, Canada Rhodesia, Australia and New Zealand

T  $\square$  Rhodesia  $\square$  charts , including United Kingdom  $\square$  4  $\square$  Rhodesia  $\square$  Rhodesia  $\square$  [4] ABBA was also the first pop group from Europe to enjoy consistent success in the English-speaking countries, including the the United States, Canada Rhodesia, Australia and New Zealand

T  $\square$  ARIA Charts  $\square$  charts , including United Kingdom  $\square$  4  $\square$  ARIA\_Charts  $\square$  Australia  $\square$  [4] ABBA was also the first pop group from Europe to enjoy consistent success in the English-speaking countries, including the the United States, Canada Rhodesia, Australia and New Zealand

T  $\square$  RIANZ  $\square$  charts , including United Kingdom  $\square$  4  $\square$  RIANZ  $\square$  New Zealand  $\square$  [4] ABBA was also the first pop group from Europe to enjoy consistent success in the English-speaking countries, including the the United States, Canada Rhodesia, Australia and New Zealand

T  $\square$  Mamma Mia!  $\square$  successful musical Mamma Mia ! that toured worldwide  $\square$  7  $\square$  Mamma\_Mia!  $\square$  Mamma Mia!  $\square$  The music of ABBA has been re-arranged successful musical Mamma Mia! that has worldwide and had a movie version released 2008.

T  $\square$  Mamma Mia! (film)  $\square$  worldwide and had  $\square$  3  $\square$  Mamma\_Mia!(film)  $\square$  movie version  $\square$  The music of ABBA has been re-arranged successful musical Mamma Mia! that has worldwide and had a movie version released 2008.

F  $\square$  Benny Andersson  $\square$  film premiÄ¬re took place  $\square$  4  $\square$  Benny\_Andersson  $\square$  Benny Andersson  $\square$  The film premiÄ¬re took place at the Benny Andersson-owned Rival Theatre at Mariatorget, Stockholm on 4 July 2008.

T  $\square$  Mariatorget  $\square$  film premiÄ¬re took place  $\square$  4  $\square$  Mariatorget  $\square$  Mariatorget  $\square$  The film premiÄ¬re took place at the Benny Andersson-owned Rival Theatre at Mariatorget, Stockholm on 4 July 2008.

T  $\square$  Stockholm  $\square$  film premiÄ¬re took place  $\square$  4  $\square$  Stockholm  $\square$  Stockholm  $\square$  The film premiÄ¬re took place at the Benny Andersson-owned Rival Theatre at Mariatorget, Stockholm on 4 July 2008.

### **Florida (515)**

T  $\square$  U.S. state  $\square$  located in southeastern region  $\square$  4  $\square$  U.S.\_state  $\square$  state  $\square$  Florida ( /Ë?flË?rË²dË?/ (helpÄGinfo) ) is in the southeastern region of the Alabama to the northwest and

T  $\square$  Southeastern United States  $\square$  state located in southeastern region  $\square$  5  $\square$  Southeastern\_United\_States  $\square$  southeastern region  $\square$  Florida ( /Ë?flË?rË²dË?/ (helpÄGinfo) ) is in the southeastern region of the Alabama to the northwest and

T  $\square$  United States  $\square$  southeastern region , bordering Alabama  $\square$  4  $\square$  United\_States  $\square$  United States  $\square$  Florida ( /É?fiÉ?rÉ³dÉ?/ (helpÂGinfo)) is in the southeastern region of the Alabama to the northwest and

T  $\square$  Alabama  $\square$  southeastern region , bordering  $\square$  3  $\square$  Alabama  $\square$  Alabama  $\square$  Florida ( /É?fiÉ?rÉ³dÉ?/ (helpÂGinfo)) is in the southeastern region of the Alabama to the northwest and

T  $\square$  Georgia (U.S. state)  $\square$  southeastern region , bordering Alabama  $\square$  4  $\square$  Georgia\_(U.S.\_state)  $\square$  Georgia  $\square$  Florida ( /É?fiÉ?rÉ³dÉ?/ (helpÂGinfo)) is in the southeastern region of the Alabama to the northwest and

T  $\square$  United States  $\square$  27th state admitted to  $\square$  4  $\square$  United\_States  $\square$  United States  $\square$  It was the 27th state admitted to the

T  $\square$  Peninsula  $\square$  is large  $\square$  2  $\square$  Peninsula  $\square$  peninsula  $\square$  Much of the land mass of the state is a with the Gulf of Mexico to the west, and Ocean to the east.

T  $\square$  Gulf of Mexico  $\square$  is large peninsula  $\square$  3  $\square$  Gulf\_of\_Mexico  $\square$  Gulf of Mexico  $\square$  Much of the land mass of the state is a with the Gulf of Mexico to the west, and Ocean to the east.

T  $\square$  Atlantic Ocean  $\square$  is large peninsula  $\square$  3  $\square$  Atlantic\_Ocean  $\square$  Atlantic Ocean  $\square$  Much of the land mass of the state is a with the Gulf of Mexico to the west, and Ocean to the east.

F  $\square$  Tropical  $\square$  It nicknamed  $\square$  2  $\square$  Tropical  $\square$  tropical  $\square$  It is nicknamed the "sunshine state" because tropical to subtropical climate.

F  $\square$  Subtropical climate  $\square$  It nicknamed  $\square$  2  $\square$  Subtropical\_climate  $\square$  subtropical climate  $\square$  It is nicknamed the "sunshine state" because tropical to subtropical climate.

N  $\square$  United States Census Bureau  $\square$  estimates that state population  $\square$  4  $\square$  United\_States\_Census\_Bureau  $\square$  United States Census Bureau  $\square$  The United States Census Bureau estimates state population was 18,328,340 in as the fourth most populous state in the

T  $\square$  Tallahassee, Florida  $\square$  is state capital  $\square$  3  $\square$  Tallahassee,\_Florida  $\square$  Tallahassee  $\square$  [6][7] Tallahassee is the state capital and largest metro area.

T  $\square$  Miami  $\square$  is largest metro area  $\square$  4  $\square$  Miami  $\square$  Miami  $\square$  [6][7] Tallahassee is the state capital and largest metro area.

T  $\square$  List of U.S. state residents names  $\square$  Residents known as " Floridians "  $\square$  4  $\square$  List\_of\_U.S.\_state\_residents\_names  $\square$  Floridians  $\square$  Residents of Florida are properly known

### Two-Face (160)

T  $\square$  Fictional  $\square$  is fictional comic book supervillain  $\square$  5  $\square$  Fictional  $\square$  fictional  $\square$  Two-Face is a fictional comic book supervillain appears in comic books published by DC

T  $\square$  Comic book  $\square$  is fictional comic book supervillain  $\square$  5  $\square$  Comic\_book  $\square$  comic book  $\square$  Two-Face is a fictional comic book supervillain appears in comic books published by DC

T  $\square$  Supervillain  $\square$  fictional comic book supervillain who appears in comic books  $\square$  9  $\square$  Supervillain  $\square$  supervillain  $\square$  Two-Face is a fictional comic book supervillain appears in comic books published by DC

T  $\square$  Comic books  $\square$  fictional comic book supervillain who appears in  $\square$  7  $\square$  Comic\_books  $\square$  comic books  $\square$  Two-Face is a fictional comic book supervillain appears in comic books published by DC

T  $\square$  DC Comics  $\square$  comic books published by  $\square$  4  $\square$  DC\_Comics  $\square$  DC Comics  $\square$  Two-Face is a fictional comic book supervillain appears in comic books published by DC

T  $\square$  Detective Comics  $\square$  character appeared in  $\square$  3  $\square$  Detective\_Comics  $\square$  Detective Comics  $\square$  The character first appeared in Detective (August 1942), and was created by Bob Finger.

T  $\square$  1942  $\square$  ) , and created by Bob Kane  $\square$  5  $\square$  1942#August  $\square$  August 1942  $\square$  The character first appeared in Detective (August 1942), and was created by Bob Finger.

T  $\square$  Bob Kane  $\square$  August 1942 ) , and created by  $\square$  5  $\square$  Bob\_Kane  $\square$  Bob Kane  $\square$  The character first appeared in Detective (August 1942), and was created by Bob Finger.

T  $\square$  Bill Finger  $\square$  August 1942 ) , and created by Bob Kane  $\square$  7  $\square$  Bill\_Finger  $\square$  Bill Finger  $\square$  The character first appeared in Detective (August 1942), and was created by Bob Finger.

T  $\square$  Archenemy  $\square$  He is  $\square$  2  $\square$  Archenemy  $\square$  archenemy  $\square$  He is an archenemy of Batman.

T  $\square$  Batman  $\square$  He is archenemy  $\square$  3  $\square$  Batman  $\square$  Batman  $\square$  He is an archenemy of Batman.

T  $\square$  District Attorney  $\square$  he goes insane  $\square$  3  $\square$  District\_Attorney  $\square$  District Attorney  $\square$  Once Harvey Dent, District Attorney of an ally of Batman, he goes insane and becomes crime boss Two-Face after the left half hideously disfigured; he chooses to bring evil based upon the outcome of a coin flip.

T  $\square$  Gotham City  $\square$  he goes insane  $\square$  3  $\square$  Gotham\_City  $\square$  Gotham City  $\square$  Once Harvey Dent, District Attorney of an ally of Batman, he goes insane and becomes crime boss Two-Face after the left half hideously disfigured; he chooses to bring evil based upon the outcome of a coin flip.

T  $\square$  Disfigurement  $\square$  left half disfigured ; he  $\square$  4  $\square$  Disfigurement  $\square$  disfigured  $\square$  Once Harvey Dent, District Attorney of an ally of Batman, he goes insane and becomes crime boss Two-Face after the left half hideously disfigured; he chooses to bring evil based upon the outcome of a coin flip.

N  $\square$  Flipism  $\square$  See ,  $\square$  1  $\square$  Flipism  $\square$  Flipism  $\square$  See, Flipism.

F  $\square$  Gimmick  $\square$  was one  $\square$  2  $\square$  Gimmick  $\square$  gimmick  $\square$  Originally, Two-Face was one of many comic book villains, plotting crimes based number two, such as robbing Gotham Second Bank at 2:00 on February 2.

T  $\square$  Comic book  $\square$  one , plotting crimes  $\square$  3  $\square$  Comic\_book  $\square$  comic book  $\square$  Originally, Two-Face was one of many comic book villains, plotting crimes based number two, such as robbing Gotham Second Bank at 2:00 on February 2.

F  $\square$  Spencer Tracy  $\square$  movie poster advertising Spencer Tracy film  $\square$  6  $\square$  Spencer\_Tracy  $\square$  Spencer Tracy  $\square$  Creator Bob Kane was inspired by a movie advertising the Spencer Tracy film

N  $\square$  Dr. Jekyll and Mr. Hyde (1941 film)  $\square$  null  $\square$  0  $\square$  Dr.\_Jekyll\_and\_Mr.\_Hyde\_(1941\_film)  $\square$  Dr. Jekyll and Mr. Hyde  $\square$  Hyde and conceived the idea of a villain personality.

T  $\square$  Modern Age of Comic Books  $\square$  writers portrayed his obsession  $\square$  4  $\square$  Modern\_Age\_of\_Comic\_Books  $\square$  later years  $\square$  In later years, writers have portrayed his duality and fate as the result of schizophrenia, multiple personality disorders as well as abuse.

T  $\square$  Duality  $\square$  writers portrayed his obsession  $\square$  4  $\square$  Duality  $\square$  duality  $\square$  In later years, writers have portrayed his duality and fate as the result of schizophrenia, multiple personality disorders as well as abuse.

T  $\square$  Fate  $\square$  writers portrayed his obsession  $\square$  4  $\square$  Fate  $\square$  fate  $\square$  In later years, writers have portrayed his duality and fate as the result of schizophrenia, multiple personality disorders as well as abuse.

T ▫ Schizophrenia ▫ writers portrayed his obsession ▫ 4 ▫ Schizophrenia ▫ schizophrenia ▫ In later years, writers have portrayed his duality and fate as the result of schizophrenia, multiple personality disorders as well as abuse.

T ▫ Bipolar disorder ▫ writers portrayed his obsession ▫ 4 ▫ Bipolar\_disorder ▫ bipolar ▫ In later years, writers have portrayed his duality and fate as the result of schizophrenia, multiple personality disorders as well as abuse.

T ▫ Dissociative identity disorder ▫ writers portrayed his obsession ▫ 4 ▫ Dissociative\_identity\_disorder ▫ multiple personality disorders ▫ In later years, writers have portrayed his duality and fate as the result of schizophrenia, multiple personality disorders as well as abuse.

F ▫ Child abuse ▫ writers portrayed his obsession ▫ 4 ▫ Child\_abuse ▫ child abuse ▫ In later years, writers have portrayed his duality and fate as the result of schizophrenia, multiple personality disorders as well as abuse.

N ▫ Obsessive compulsive disorder ▫ He makes all important decisions ▫ 5 ▫ Obsessive\_compulsive\_disorder ▫ obsessively ▫ He obsessively makes all important decisions flipping a two-headed coin, one side of the over with an X.

N ▫ Coin flipping ▫ two-headed coin ▫ 2 ▫ Coin\_flipping ▫ coin flipping ▫ He obsessively makes all important decisions flipping a two-headed coin, one side of the over with an X.

T ▫ Batman: The Animated Series ▫ multiple Batman media forms , including video games ▫ 7 ▫ Batman:\_The\_Animated\_Series ▫ Batman: The Animated Series ▫ The character has appeared in multiple forms, including video games, Batman: The Series, and the Batman film series. Billy portrayed Harvey Dent in Batman, while Jones portrayed Two-Face in Batman Forever Eckhart played Harvey Dent/Two-Face Knight.

T ▫ Batman (film series) ▫ multiple Batman media forms , including video games ▫ 7 ▫ Batman\_(film\_series) ▫ Batman film series ▫ The character has appeared in multiple forms, including video games, Batman: The Series, and the Batman film series. Billy portrayed Harvey Dent in Batman, while Jones portrayed Two-Face in Batman Forever Eckhart played Harvey Dent/Two-Face Knight. ▫

T ▫ Billy Dee Williams ▫ portrayed Harvey Dent ▫ 3 ▫ Billy\_De\_Williams ▫ Billy Dee Williams ▫ The character has appeared in multiple forms, including video games, Batman: The Series, and the Batman film series. Billy portrayed Harvey Dent in Batman, while Jones portrayed Two-Face in Batman Forever Eckhart played Harvey Dent/Two-Face Knight.

T ▫ Batman (1989 film) ▫ Billy Dee Williams portrayed Harvey Dent ▫ 6 ▫ Batman\_(1989\_film) ▫ Batman ▫ The character has appeared in multiple forms, including video games, Batman: The Series, and the Batman film series. Billy portrayed Harvey Dent in Batman, while Jones portrayed Two-Face in Batman Forever Eckhart played Harvey Dent/Two-Face Knight.

T ▫ Tommy Lee Jones ▫ portrayed Two-Face ▫ 2 ▫ Tommy\_Lee\_Jones ▫ Tommy Lee Jones ▫ The character has appeared in multiple forms, including video games, Batman: The Series, and the Batman film series. Billy portrayed Harvey Dent in Batman, while Jones portrayed Two-Face in Batman Forever Eckhart played Harvey Dent/Two-Face Knight.

T ▫ Batman Forever ▫ Tommy Lee Jones portrayed Two-Face ▫ 5 ▫ Batman\_Forever ▫ Batman Forever ▫ The character has appeared in multiple forms, including video games, Batman: The Series, and the Batman film series. Billy portrayed Harvey Dent in Batman, while Jones portrayed Two-Face in Batman Forever Eckhart played Harvey Dent/Two-Face Knight.

T ▫ Aaron Eckhart ▫ played Harvey ▫ 2 ▫ Aaron\_Eckhart ▫ Aaron Eckhart ▫ The character has appeared in multiple forms, including video games, Batman: The Series, and the Batman film series. Billy portrayed Harvey Dent in Batman, while Jones portrayed Two-Face in Batman Forever Eckhart played Harvey Dent/Two-Face Knight.

T ▫ The Dark Knight (film) ▫ Aaron Eckhart played Harvey ▫ 4 ▫ The\_Dark\_Knight\_(film) ▫ The Dark Knight ▫ The character has appeared in multiple forms, including video games, Batman: The Series, and the Batman film series. Billy portrayed Harvey Dent in Batman, while Jones portrayed Two-Face in Batman Forever Eckhart played Harvey Dent/Two-Face Knight.

## Religion (745)

N ▫ Spirituality ▫ human spirituality which encompasses set ▫ 5 ▫ Spirituality ▫ spirituality ▫ A religion is an organized approach to human which usually encompasses a set of narratives, beliefs and practices, often with a supernatural transcendent quality, that give meaning practitioner's experiences of life through higher power or truth.

T ▫ Myth ▫ human spirituality which encompasses set ▫ 5 ▫ Myth ▫ narratives ▫ A religion is an organized approach to human which usually encompasses a set of narratives, beliefs and practices, often with a supernatural transcendent quality, that give meaning practitioner's experiences of life through higher power or truth.

T ▫ Symbol ▫ human spirituality which encompasses set ▫ 5 ▫ Symbol ▫ symbols ▫ A religion is an organized approach to human which usually encompasses a set of narratives, beliefs and practices, often with a supernatural transcendent quality, that give meaning practitioner's experiences of life through higher power or truth.

T ▫ Supernatural ▫ transcendent quality , that give meaning ▫ 5 ▫ Supernatural ▫ supernatural ▫ A religion is an organized approach to human which usually encompasses a set of narratives, beliefs and practices, often with a supernatural transcendent quality, that give meaning practitioner's experiences of life through higher power or truth.

T ▫ Transcendence ▫ quality , that give meaning ▫ 4 ▫ Transcendence ▫ transcendent ▫ A religion is an organized approach to human which usually encompasses a set of narratives, beliefs and practices, often with a supernatural transcendent quality, that give meaning practitioner's experiences of life through higher power or truth.

T ▫ Truth ▫ transcendent quality , that give meaning ▫ 5 ▫ Truth ▫ truth ▫ A religion is an organized approach to human which usually encompasses a set of narratives, beliefs and practices, often with a supernatural transcendent quality, that give meaning practitioner's experiences of life through higher power or truth.

T ▫ Prayer ▫ It expressed through ▫ 3 ▫ Prayer ▫ prayer ▫ [1] It may be expressed through prayer, meditation, music and art, among other

T ▫ Ritual ▫ It expressed through prayer ▫ 4 ▫ Ritual ▫ ritual ▫ [1] It may be expressed through prayer, meditation, music and art, among other

T ▫ Meditation ▫ It expressed through prayer ▫ 4 ▫ Meditation ▫ meditation ▫ [1] It may be expressed through prayer, meditation, music and art, among other

T ▫ Music ▫ It expressed through prayer ▫ 4 ▫ Music ▫ music ▫ [1] It may be expressed through prayer, meditation, music and art, among other

T ▫ Art ▫ It expressed through prayer ▫ 4 ▫ Art ▫ art ▫ [1] It may be expressed through prayer, meditation, music and art, among other

T ▫ Supernatural ▫ It focus on specific ▫ 4 ▫ Supernatural ▫ supernatural ▫ It may focus on specific supernatural, metaphysical, moral claims about reality (the cosmos and nature) which may yield a set of religious and a particular lifestyle.

T ▫ Metaphysics ▫ It focus on specific supernatural ▫ 5 ▫ Metaphysics ▫ metaphysical ▫ It may focus on specific supernatural, metaphysical, moral claims about reality (the cosmos and nature) which may yield a set of religious and a particular lifestyle.

T ▫ Morality ▫ It focus on specific supernatural ▫ 5 ▫ Morality ▫ moral ▫ It may focus on specific supernatural, metaphysical, moral claims about reality (the cosmos and nature) which may yield a set of religious and a particular lifestyle.

F ▫ Reality ▫ human nature ) which yield set ▫ 5 ▫ Reality ▫ reality ▫ It may focus on specific supernatural, metaphysical, moral claims about reality (the cosmos and nature) which may yield a set of religious and a particular lifestyle.

F ▫ Cosmos ▫ human nature ) which yield set ▫ 5 ▫ Cosmos ▫ cosmos ▫ It may focus on specific supernatural, metaphysical, moral claims about reality (the cosmos and nature) which may yield a set of religious and a particular lifestyle.

F ▫ Human nature ▫ ) which yield set ▫ 3 ▫ Human\_nature ▫ human nature ▫ It may focus on specific supernatural, metaphysical, moral claims about reality (the cosmos and nature) which may yield a set of religious and a particular lifestyle.

T ▫ Religious law ▫ human nature ) which yield set ▫ 5 ▫ Religious\_law ▫ religious laws ▫ It may focus on specific supernatural, metaphysical, moral claims about reality (the cosmos and nature) which may yield a set of religious and a particular lifestyle.

T ▫ Ethics ▫ human nature ) which yield set ▫ 5 ▫ Ethics ▫ ethics ▫ It may focus on specific supernatural, metaphysical, moral claims about reality (the cosmos and nature) which may yield a set of religious and a particular lifestyle.

T ▫ Lifestyle ▫ human nature ) which yield set ▫ 5 ▫ Lifestyle ▫ lifestyle ▫ It may focus on specific supernatural, metaphysical, moral claims about reality (the cosmos and nature) which may yield a set of religious and a particular lifestyle.

T ▫ Tradition ▫ encompasses ancestral ▫ 2 ▫ Tradition ▫ traditions ▫ Religion also encompasses ancestral or traditions, writings, history, and mythology, personal faith and religious experience.

T ▫ Mythology ▫ encompasses ancestral ▫ 2 ▫ Mythology ▫ mythology ▫ Religion also encompasses ancestral or traditions, writings, history, and mythology, personal faith and religious experience.

T ▫ Faith ▫ encompasses ancestral ▫ 2 ▫ Faith ▫ faith ▫ Religion also encompasses ancestral or traditions, writings, history, and mythology, personal faith and religious experience.

T ▫ Religious experience ▫ encompasses ancestral ▫ 2 ▫ Religious\_experience ▫ religious experience ▫ Religion also encompasses ancestral or traditions, writings, history, and mythology, personal faith and religious experience.

T ▫ Faith ▫ used with ▫ 2 ▫ Faith ▫ faith ▫ The term "religion" refers to both the personal related to communal faith and to group rituals communication stemming from shared conviction. "Religion" is sometimes used interchangeably or "belief system,"[2] but it is more socially personal convictions, and it entails specific respectively.

T ▫ Belief system ▫ used with faith ▫ 3 ▫ Belief\_system ▫ belief system ▫ The term "religion" refers to both the personal related to communal faith and to group rituals communication stemming from shared conviction. "Religion" is sometimes used interchangeably or "belief system,"[2] but it is more socially personal convictions, and it entails specific respectively.

T ▫ Development of religion ▫ taken many forms ▫ 3 ▫ Development\_of\_religion ▫ development of religion ▫ The development of religion has taken many various cultures.

T ▫ Psychology of religion ▫ It considers ▫ 2 ▫ Psychology\_of\_religion ▫ psychological ▫ It considers psychological and social roots, origins and historical development.

T ▫ Sociology of religion ▫ It considers psychological ▫ 3 ▫ Sociology\_of\_religion ▫ social ▫ It considers psychological and social roots, origins and historical development.

T ▫ Origins of religion ▫ It considers psychological ▫ 3 ▫ Origins\_of\_religion ▫ origins ▫ It considers psychological and social roots, origins and historical development.

T ▫ History of religion ▫ It considers psychological ▫ 3 ▫ History\_of\_religion ▫ historical ▫ It considers psychological and social roots, origins and historical development.

T ▫ Western religion ▫ religions present common quality ▫ 4 ▫ Western\_religion ▫ western religious thought ▫ In the frame of western religious thought,[present a common quality, the "hallmark religious thought": the division of the world comprehensive domains, one sacred, the

T ▫ Sacred-profane dichotomy ▫ one sacred , other profane ▫ 4 ▫ Sacred-profane\_dichotomy ▫ one sacred, the other profane ▫ In the frame of western religious thought,[present a common quality, the "hallmark religious thought": the division of the world comprehensive domains, one sacred, the

T ▫ Supernatural ▫ person , or object , that considered to ▫ 6 ▫ Supernatural ▫ supernatural ▫ [4] Religion is often described as a communal the coherence of belief focusing on a system unseen being, person, or object, that is supernatural, sacred, divine, or of the highest codes, practices, values, institutions, tradition, and scriptures are often traditionally associated core belief, and these may have some overlap concepts in secular philosophy.

T ▫ Divinity ▫ supernatural , sacred , ▫ 2 ▫ Divinity ▫ divine ▫ [4] Religion is often described as a communal the coherence of belief focusing on a system unseen being, person, or object, that is supernatural, sacred, divine, or of the highest codes, practices, values, institutions, tradition, and scriptures are often traditionally associated core belief, and these may have some overlap concepts in secular philosophy.

T ▫ Truth ▫ supernatural , sacred , divine ▫ 3 ▫ Truth ▫ truth ▫ [4] Religion is often described as a communal the coherence of belief focusing on a system unseen being, person, or object, that is supernatural, sacred, divine, or of the highest codes, practices, values, institutions, tradition, and scriptures are often traditionally associated core belief, and these may have some overlap concepts in secular philosophy.

T ▫ Moral code ▫ scriptures associated with core belief ▫ 5 ▫ Moral\_code ▫ Moral codes ▫ [4] Religion is often described as a communal the coherence of belief focusing on a system unseen being, person, or object, that is supernatural, sacred, divine, or of the highest codes, practices, values, institutions, tradition, and scriptures are often traditionally associated core belief, and these may have some overlap concepts in secular philosophy.

T ▫ Scripture ▫ associated with core belief ▫ 4 ▫ Scripture ▫ scriptures ▫ [4] Religion is often described as a communal the coherence of belief focusing on a system unseen being, person, or object, that is supernatural, sacred, divine, or of the highest codes, practices, values, institutions, tradition, and scriptures are often traditionally associated core belief, and these may have some overlap concepts in secular philosophy.

T ▫ Secularity ▫ these have some overlap ▫ 4 ▫ Secularity ▫ secular ▫ [4] Religion is often described as a communal the coherence of belief focusing on a system unseen being, person, or object, that is supernatural, sacred, divine, or of the highest codes, practices, values, institutions, tradition, and scriptures are often traditionally associated core belief, and these may have some overlap concepts in secular philosophy.

T ▫ Philosophy ▫ these have some overlap ▫ 4 ▫ Philosophy ▫ philosophy ▫ [4] Religion is often described as a communal the coherence of belief focusing on a system unseen being, person, or object, that is supernatural, sacred, divine, or of the highest



codes, practices, values, institutions, tradition, and scriptures are often traditionally associated core belief, and these may have some overlap concepts in secular philosophy.

T ▯ Lifestyle ▯ described as ▯ 2 ▯ Lifestyle ▯ way of life ▯ Religion is also often described as a "way life stance.

T ▯ Life stance ▯ described as ▯ 2 ▯ Life\_stance ▯ life stance ▯ Religion is also often described as a "way life stance.

## Peru (667)

T ▯ Spanish language ▯ reĒ?puĴlika del peĒ?Ē%u ] , is country ▯ 5 ▯ Spanish\_language ▯ Spanish ▯ Peru (Spanish: PerĀ°, Quechua: Piruw, officially the Republic of Peru (Spanish: PerĀ° (helpĀGinfo), IPA:&#160;[reĒ?puĴpeĒ?Ē%u]), is a country in western South

T ▯ Quechua language ▯ reĒ?puĴlika del peĒ?Ē%u ] , is country ▯ 5 ▯ Quechua\_language ▯ Quechua ▯ Peru (Spanish: PerĀ°, Quechua: Piruw, officially the Republic of Peru (Spanish: PerĀ° (helpĀGinfo), IPA:&#160;[reĒ?puĴpeĒ?Ē%u]), is a country in western South

T ▯ Aymara language ▯ reĒ?puĴlika del peĒ?Ē%u ] , is country ▯ 5 ▯ Aymara\_language ▯ Aymara ▯ Peru (Spanish: PerĀ°, Quechua: Piruw, officially the Republic of Peru (Spanish: PerĀ° (helpĀGinfo), IPA:&#160;[reĒ?puĴpeĒ?Ē%u]), is a country in western South

T ▯ Spanish language ▯ reĒ?puĴlika del peĒ?Ē%u ] , is country ▯ 5 ▯ Spanish\_language ▯ Spanish ▯ Peru (Spanish: PerĀ°, Quechua: Piruw, officially the Republic of Peru (Spanish: PerĀ° (helpĀGinfo), IPA:&#160;[reĒ?puĴpeĒ?Ē%u]), is a country in western South

T ▯ South America ▯ reĒ?puĴlika del peĒ?Ē%u ] , is country ▯ 5 ▯ South\_America ▯ South America ▯ Peru (Spanish: PerĀ°, Quechua: Piruw, officially the Republic of Peru (Spanish: PerĀ° (helpĀGinfo), IPA:&#160;[reĒ?puĴpeĒ?Ē%u]), is a country in western South

T ▯ Ecuador ▯ It bordered on north ▯ 4 ▯ Ecuador ▯ Ecuador ▯ It is bordered on the north by the east by Brazil, on the southeast by south by Chile, and on the west by the

T ▯ Colombia ▯ It bordered on north ▯ 4 ▯ Colombia ▯ Colombia ▯ It is bordered on the north by the east by Brazil, on the southeast by south by Chile, and on the west by the

F ▯ Brazil ▯ It bordered on north ▯ 4 ▯ Brazil ▯ Brazil ▯ It is bordered on the north by the east by Brazil, on the southeast by south by Chile, and on the west by the

F ▯ Bolivia ▯ It bordered on north ▯ 4 ▯ Bolivia ▯ Bolivia ▯ It is bordered on the north by the east by Brazil, on the southeast by south by Chile, and on the west by the

F ▯ Chile ▯ It bordered on north ▯ 4 ▯ Chile ▯ Chile ▯ It is bordered on the north by the east by Brazil, on the southeast by south by Chile, and on the west by the

F ▯ Pacific Ocean ▯ It bordered on north ▯ 4 ▯ Pacific\_Ocean ▯ Pacific Ocean ▯ It is bordered on the north by the east by Brazil, on the southeast by south by Chile, and on the west by the

T ▯ Norte Chico civilization ▯ Peruvian territory was home ▯ 4 ▯ Norte\_Chico\_civilization ▯ Norte Chico civilization ▯ Peruvian territory was home to the Norte civilization, one of the oldest in the world, Empire, the largest state in Pre-Columbian

T ▯ Inca Empire ▯ Peruvian territory was home ▯ 4 ▯ Inca\_Empire ▯ Inca Empire ▯ Peruvian territory was home to the Norte civilization, one of the oldest in the world, Empire, the largest state in Pre-Columbian

F ▯ Pre-Columbian ▯ Peruvian territory was home ▯ 4 ▯ Pre-Columbian ▯ Pre-Columbian America ▯ Peruvian territory was home to the Norte civilization, one of the oldest in the world, Empire, the largest state in Pre-Columbian

T ▯ Spanish Empire ▯ conquered region ▯ 2 ▯ Spanish\_Empire ▯ Spanish Empire ▯ The Spanish Empire conquered the region century and established a Viceroyalty, which most of its South American colonies.

N ▯ Viceroyalty of Peru ▯ Viceroyalty , which included most ▯ 4 ▯ Viceroyalty\_of\_Peru ▯ established a Viceroyalty ▯ The Spanish Empire conquered the region century and established a Viceroyalty, which most of its South American colonies.

T ▯ Independence of Peru ▯ has undergone periods ▯ 3 ▯ Independence\_of\_Peru ▯ achieving independence ▯ After achieving independence in 1821, undergone periods of political unrest and well as periods of stability and economic

T ▯ Representative democratic ▯ is representative democratic republic ▯ 4 ▯ Representative\_democratic ▯ representative democratic ▯ Peru is a representative democratic republic 25 regions.

T ▯ Republic ▯ representative democratic republic divided into 25 regions ▯ 7 ▯ Republic ▯ republic ▯ Peru is a representative democratic republic 25 regions.

T ▯ Administrative divisions of Peru ▯ representative democratic republic divided into ▯ 5 ▯ Administrative\_divisions\_of\_Peru ▯ 25 regions ▯ Peru is a representative democratic republic 25 regions.

T ▯ Andes ▯ peaks ▯ 1 ▯ Andes ▯ Andes ▯ Its geography varies from the arid plains coast to the peaks of the Andes mountains tropical forests of the Amazon

T ▯ Amazon Basin ▯ tropical forests ▯ 2 ▯ Amazon\_Basin ▯ Amazon Basin ▯ Its geography varies from the arid plains coast to the peaks of the Andes mountains tropical forests of the Amazon

T ▯ Developing country ▯ It is ▯ 2 ▯ Developing\_country ▯ developing country ▯ It is a developing country with a medium Development Index score and a poverty 40%.

T ▯ Human Development Index ▯ developing country ▯ 2 ▯ Human\_Development\_Index ▯ Human Development Index ▯ It is a developing country with a medium Development Index score and a poverty 40%.

T ▯ Multiethnic society ▯ 28 million , is ▯ 3 ▯ Multiethnic\_society ▯ multiethnic ▯ The Peruvian population, estimated at 28 multiethnic, including Amerindians, Europeans, and Asians.

T ▯ Indigenous Peoples in Peru ▯ multiethnic , including ▯ 2 ▯ Indigenous\_Peoples\_in\_Peru ▯ Amerindians ▯ The Peruvian population, estimated at 28 multiethnic, including Amerindians, Europeans, and Asians.

T ▯ European ethnic groups ▯ multiethnic , including Amerindians ▯ 3 ▯ European\_ethnic\_groups ▯ Europeans ▯ The Peruvian population, estimated at 28 multiethnic, including Amerindians, Europeans, and Asians.

T ▯ Black people ▯ multiethnic , including Amerindians ▯ 3 ▯ Black\_people ▯ Africans ▯ The Peruvian population, estimated at 28 multiethnic, including Amerindians, Europeans, and Asians.

T ▯ Asians ▯ multiethnic , including Amerindians ▯ 3 ▯ Asians ▯ Asians ▯ The Peruvian population, estimated at 28 multiethnic, including Amerindians, Europeans, and Asians.

T ▯ Spanish language ▯ main spoken language is ▯ 4 ▯ Spanish\_language ▯ Spanish ▯ The main spoken language is Spanish, significant number of Peruvians speak Quechua native languages.

T 3 Quechua 3 significant number speak 3 3 Quechua 3 Quechua 3 The main spoken language is Spanish, significant number of Peruvians speak Quechua native languages.

T 4 Indigenous languages of the Americas 4 significant number speak Quechua 4 4 Indigenous\_languages\_of\_the\_Americas 4 native languages 4 The main spoken language is Spanish, significant number of Peruvians speak Quechua native languages.



## Supplement to publication P5

Supplement to publication P5 that was referenced to by the original publication.

**P5:** Lahti, Lauri (2011a). ConceptMapWiki – a collaborative framework for agglomerating pedagogical knowledge. Proc. 11th IEEE International Conference on Advanced Learning Technologies (ICALT 2011), 6–8 July 2010, Athens, Georgia, USA (eds. Aedo, I. et al.), 163–165. Online ISBN 978-0-7695-4346-8 and Print ISBN 978-1-61284-209-7. [http://ieeexplore.ieee.org/xpls/abs\\_all.jsp?arnumber=5992312](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5992312)



## Supplement to Lauri Lahti's conference article "ConceptMapWiki – a collaborative framework for agglomerating pedagogical knowledge"

Lauri Lahti, 20110610 (updated in 2014)

### Scientific reference:

Please use following citation:

Lahti, L. (2011a). ConceptMapWiki – a collaborative framework for agglomerating pedagogical knowledge. Proc. 11th IEEE International Conference on Advanced Learning Technologies (ICALT 2011), 6–8 July 2010, Athens, Georgia, USA (eds. Aedo, I. et al.), 163-165. Online ISBN 978-0-7695-4346-8 and Print ISBN 978-1-61284-209-7.

[http://ieeexplore.ieee.org/xpls/abs\\_all.jsp?arnumber=5992312](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5992312)

Supplement data available at [http://www.cs.hut.fi/u/llahti/publ/lahti\\_2011\\_data.pdf](http://www.cs.hut.fi/u/llahti/publ/lahti_2011_data.pdf)

### Empirical experiment

(corresponding to analysis in Subchapter 8.2 and Appendix M of Lauri Lahti's doctoral dissertation "Computer-assisted learning based on cumulative vocabularies, conceptual networks and Wikipedia linkage" (Lahti 2014))

We have carried out *empirical experiment* to evaluate educational gain of the proposed method. We report here corrected results that somewhat differ from those results reported in publication [P5], our analysis is based on material gathered from 147 university students of *introductory Java programming course* who we asked to draw with our method *concept maps* representing their knowledge about learning topic "programming". Among these 147 students there were 124 men and 23 women and average of age of students was 20.86 years (median 20 years). Although we present here the results in English, the experiment was carried out in Finnish but we present the results here in English. User interface of an prototype tool used in the experiment is shown in Appendix M.

After eliminating unclear responses and transforming all concepts to non-conjugated base forms, and considering only those concepts and relationships mentioned by at least two students, we identified 167 unique concepts and 167 unique conceptual relationships between them. A full listing of these unique concepts and unique relationships supplied with occurrences in concept maps is shown in Appendix M. Five most frequent concepts, number of students who mentioned the concepts shown in parenthesis, were programming (90), object (62), method (60), java (57) and class (49). Five most frequent relationships, number of students who mentioned the relationships shown in parenthesis, were object -> method (29), class -> object (27), programming -> programming language (27), programming language -> java (18) and programming -> language (17).

Table 8.1 shows how 147 students gradually introduced relationships to concept maps about programming. It appears that the most popular conceptual relationship that the students added as their first conceptual relationship to concept maps was programming -> language (mentioned by 11 students). The most popular conceptual relationship to be added as their second conceptual relationship was programming -> programming language (mentioned by 7 students). The most popular conceptual relationship to be added as their third conceptual relationship was object -> method (mentioned by 6 students).

To analyze pedagogical value of the method we compared evolution of drawn concept maps to an extensive *narrative from 28 lectures* of introductory Java programming course (Sahami 2010). We computed that this lecture narrative contained 6291 unique concepts that had altogether 101599 occurrences. We compared drawn concept maps to co-occurring words in 18142 unique sentences

of the lecture narrative. The high-ranking concepts and high-ranking conceptual relationships in drawn concept maps well matched with the high-ranking concepts and highest-ranking co-occurring concept pairs in the pedagogical narrative. For example, ten *highest-ranking concepts* of concept maps and ten highest-ranking concepts of narrative had overlap of about 65 percent, and ten *highest-ranking relationships* of concept maps and ten highest-ranking co-occurring concept pairs of narrative had overlap of about 50 percent. Motivated by additional analysis, we introduce here corrected results about experimentally gathered data and thus results reported here somewhat differ from those results originally presented in publication [P5].

**Table 8.1.** Listings showing how 147 students gradually introduced conceptual relationships to concept maps that they drew about programming, these three listings show the most occurring relationships in first, second and third relationship each student has added (n=147). Only those relationships are shown that were mentioned by at least two students.

The most actively introduced conceptual relationships when the student added <u>the first</u> relationship to her concept map		The most actively introduced conceptual relationships when the student added <u>the second</u> relationship to her concept map		The most actively introduced conceptual relationships when the student added <u>the third</u> relationship to her concept map	
<i>Conceptual relationship</i>	<i>Number of students mentioning this relationship</i>	<i>Conceptual relationship</i>	<i>Number of students mentioning this relationship</i>	<i>Conceptual relationship</i>	<i>Number of students mentioning this relationship</i>
programming -> language	11	programming -> programming language	7	object -> method	6
class -> object	8	class -> object	6	language -> python	4
programming -> programming language	8	programming language -> java	5	programming language -> c	4
programming -> object	4	language -> java	4	class -> method	3
programming -> object-oriented programming	3	language -> c	3	class -> object	3
programming -> program	3	object -> method	3	language -> java	3
object -> method	2	variable -> object	3	programming language -> java	3
program -> class	2	class -> method	2	method -> object	2
programming -> java	2	code -> program	2	object -> list	2
programming -> python	2	java -> object	2	object -> variable	2
programming -> tool	2	object -> variable	2	programming -> c++	2
programming -> variable	2	package -> class	2	programming -> java	2
variable -> object	2	programmer -> programming	2	programming -> language	2
		programming -> logic	2	programming -> program	2
		programming -> object	2		

From Table 8.2 it can be seen that among ten highest-ranking concepts for lecture narrative concepts (when counting concepts thing and things as one) there seem to be six concepts specific for describing learning topic of programming including: class, program, method, object, value and array. On the other hand ten highest-ranking concepts for concept maps about programming, if we first exclude language-related vocabulary and concepts directly referring to concept of programming itself, include five concepts: object, method, class, program and variable. Thus when comparing these two sets of concepts (six concepts and five concepts) four of them are shared (i.e. class, method, object and program) thus resulting in matching overlap of about 65 percent. We think that this result indicates that the proposed relatively self-guided method can assist learners to generate and process knowledge in a pedagogically rewarding way, even challenging the knowledge evolution process suggested by a professional teacher.

**Table 8.2.** Highest-ranking concepts in lecture narrative of introductory Java programming course (having at least 262 occurrences) available from Sahami (Sahami 2010) and concept maps about programming (having at least 8 occurrences) drawn by students (n=147). Conjugated forms of concepts of concept maps were transformed into base form but concepts of lecture narrative were kept in initial conjugated forms since reliable automated transformation seemed challenging and manual transformation laborious.

Highest-ranking concepts in lecture narrative of introductory Java programming course		Highest-ranking concepts in concept maps about programming	
<i>Concept</i>	<i>Occurrences</i>	<i>Concept</i>	<i>Occurrences</i>
thing	1007	programming	90
class	902	object	62
program	836	method	60
time	757	java	57
things	742	class	49
name	640	program	47
way	613	programming language	44
method	604	variable	41
object	585	python	31
value	558	c	29
array	511	programmer	25
string	485	language	24
sort	478	object-oriented programming	22
set	463	computer	21
number	435	user	21
stuff	395	compiler	20
people	387	C++	19
means	368	code	17
run	367	user interface	16
line	350	loop	13
call	349	debugger	12
use	343	eclipse	12
doing	342	problem	11
computer	342	algorithm	9
variable	338	conditional sentence	9
file	330	int	9
take	327	parameter	9
show	327	program code	9
java	325	ready program	9
point	313	starting method	9
code	291	tool	9
example	283	library	8
list	263	machine language	8
type	262	testing	8
world	258		
start	255		
bit	254		

When analyzing the *highest-ranking conceptual relationships* in concept maps about programming shown in Table 8.3 (based on Appendix M), and first excluding language-related vocabulary and concepts directly referring to concept of programming itself, we ended up observing those nine highest-ranking relationships marked with an asterisk (\*) and one of those six relationships marked with a double asterisk (\*\*) since these six relationships share the same ranking. In these ten relationships 5 concepts become mentioned anyway (object (6 occurrences), class (5 or 6 occurrences), method (3 or 4 occurrences), variable (3 or 4 occurrences), program (1 or 2 occurrences)) and additionally possibly one of three concepts become mentioned (code (0 or 1 occurrences), package (0 or 1 occurrences) and programmer (0 or 1 occurrences)).

**Table 8.3.** Comparison concerning conceptual relationships of concept maps about programming and co-occurring concepts of lecture narrative of introductory Java programming course available from Sahami (Sahami 2010). As explained in main text of Subchapter 8.2 in our further analysis we ended up observing those nine highest-ranking relationships marked with an asterisk (\*) and one of those six relationships marked with a double asterisk (\*\*) since these six relationships share the same ranking.

The highest-ranking conceptual relationships in concept	How many times each of 50 highest-ranking concepts of lecture
---	---



maps about programming drawn by students (n=147) (only those relationships occurring at least 5 times shown here, more shown in Appendix M)		narrative of introductory Java programming course co-occurs with any other word(s) of 50 highest-ranking concepts in a same phrase, and how many times each of these 50 concepts occurs irrespective of co-occurrences		
<i>Conceptual relationship</i>	<i>Occurrences</i>	<i>Conceptual relationship</i>	<i>Co-occurrences</i>	<i>Occurrences (ranking)</i>
* object -> method	29	thing	344	1007 (1)
* class -> object	27	things	240	742 (5)
programming -> programming language	27	way	230	613 (7)
programming language -> java	18	name	214	640 (6)
programming -> language	17	sort	214	478 (13)
* class -> method	14	method	203	604 (8)
java -> object	14	time	198	757 (4)
programming -> program	14	class	196	902 (2)
* object -> variable	12	program	194	836 (3)
language -> java	11	set	180	463 (14)
language -> c	10	object	165	585 (9)
* program -> class	10	show	165	327 (27.5s)
* object -> class	9	means	161	368 (18)
* variable -> object	9	call	160	349 (21)
java -> object-oriented programming	8	doing	160	342 (23.5s)
language -> python	8	value	158	558 (10)
programming language -> c	8	array	155	511 (11)
programming -> object	8	use	155	343 (22)
programming -> object-oriented programming	8	run	144	367 (19)
programming language -> python	7	stuff	130	395 (16)
* class -> variable	6	number	127	435 (15)
* method -> object	6	string	125	485 (12)
object-oriented programming -> java	6	take	125	327 (27.5s)
programming -> computer	6	inside	120	235 (43)
programming -> java	6	people	118	387 (17)
programming -> tool	6	bunch	115	222 (48)
c -> c++	5	variable	111	338 (25)
** code -> program	5	computer	107	342 (23.5s)
java -> class	5	type	105	262 (34)
** method -> class	5	bit	105	254 (37)
** method -> variable	5	start	103	255 (36)
** package -> class	5	code	94	291 (31)
** programmer -> program	5	line	92	350 (20)
programmer -> programming	5	java	92	325 (29)
programmer -> programming language	5	list	81	263 (33)
programming -> programmer	5	example	79	283 (32)
programming -> user interface	5	text	79	219 (50)
programming -> variable	5	point	77	313 (30)
** variable -> method	5	size	72	229 (45.5s)
		file	69	330 (26)
		integer	66	232 (44)
		move	63	246 (38)
		case	63	241 (41s)
		zero	61	245 (39)
		world	58	258 (35)
		box	55	220 (49)
		album	52	226 (47)
		times	51	229 (45.5s)
		loop	46	241 (41s)
		screen	37	241 (41s)

From lecture narrative we identified how many times each of 50 highest-ranking concepts co-occurs with any other concept(s) of 50 highest-ranking concepts in a same phrase. The number of these co-occurrences is shown in Table 8.3 for each of 50 highest-ranking concepts. In this listing it can be seen that among ten highest-ranking concepts for lecture narrative concepts (when counting concepts thing and things as one) there seems to be six concepts specific for describing learning topic of programming including: sort, method, class, program, set and object. Thus when comparing these two sets of concepts (5 or 6 actively used concepts in relationships of concept maps about programming and 6 actively used concepts in phrase-based co-occurrences of lecture narrative) four of them are shared (i.e. class, method, object and program) thus resulting in matching overlap of about 65 percent.

We analyzed the drawn concept maps in respect to the *learner's self-evaluation* about three characteristics based on responses given by students after drawing concept map in experiment: amount of earlier programming experience, difficulty of learning programming and the complexity of the concept map she had drawn, measured with five-point Likert scale (response alternatives are listed in Appendix M). Based on this analysis Table 8.4 shows distribution of rankings of concepts of concept maps about programming in respect to responses given by students and Table 8.5 shows distribution of rankings of conceptual relationships of concept maps about programming in respect to responses given by students. Here we took into account only such concepts and conceptual relationships that were mentioned by at least two students. We observed surprisingly coherent concept maps to be drawn irrespective of the responses given in self-evaluation. For example, for ten highest-ranking concepts as well as conceptual relationships there was overlap of about 50 percent between more experienced and less experienced learners, between learners considering learning more difficult and learners considering it less difficult, and between learners who drew more complex concept maps and learners who drew less complex concept maps.

We think that these results indicate that our proposed method can assist learners to generate and process knowledge in such a way that lets even challenged learners to reach same knowledge qualities in their concept maps as the less-challenged learners can.

**Table 8.4.** Distribution of rankings of concepts of concept maps about programming in respect to responses given by students, for concepts mentioned by at least two students.

How much you have experience about programming before participating programming course? (It can be expected to be clear for the students from the context that this question refers specifically to their current introductory programming course.)					
Very little or little (n=80+39=119)		Moderately (n=20)		Very much or much (n=1+7=8)	
Concept	Occurrences	Concept	Occurrences	Concept	Occurrences
programming	71	programming	14	java	5
object	57	compiler	7	programming	5
method	55	programming language	7	language	4
java	46	java	6	c	3
class	45	program	6	program	3
program	38	programmer	6	php	2
variable	36	method	5	programmer	2
programming language	35	object	5	programming language	2
python	28	object-oriented programming	5	python	2
c	23	variable	4		
Is it easy for you at the moment to learn programming?					
Very easy or easy (n=10+42=52)		Moderate (n=85)		Very difficult or difficult (n=1+9=10)	
Concept	Occurrences	Concept	Occurrences	Concept	Occurrences
programming	30	programming	55	object	5
java	21	object	41	programming	5
method	16	method	40	method	4
object	16	class	35	program	4
program	16	java	34	class	3
programming language	16	program	27	user	3
c	12	programming language	26	variable	3
object-oriented programming	12	variable	26	algorithm	2
variable	12	python	21	c	2
class	11	c	15	code	2
programmer	11			computer	2
				int	2
				java	2
				language	2
				object-oriented programming	2
				programmer	2
				programming language	2
Please give an estimate about how complex things your concept map is dealing with?					
Very simple or simple (n=32+83=115)		Moderate (n=26)		Very complex or complex (n=4+2=6)	
Concept	Occurrences	Concept	Occurrences	Concept	Occurrences
programming	71	programming	15	programming	4
object	51	object	10	java	2
java	50	method	9	language	2
method	50	program	9	program	2
class	41	programming language	9	python	2
program	36	class	7		
programming language	35	programmer	7		
variable	34	variable	6		
python	26	compiler	5		
c	24	java	5		

**Table 8.5.** Distribution of rankings of conceptual relationships of concept maps about programming in respect to responses given by students, for conceptual relationships mentioned by at least two students.

How much you have experience about programming before participating introductory programming course? (It can be expected to be clear for the students from the context that this question refers specifically to their current introductory programming course.)					
Very little or little (n=80+39=119)		Moderately (n=20)		Very much or much (n=1+7=8)	
Conceptual relationship	Occurrences	Conceptual relationship	Occurrences	Conceptual relationship	Occurrences
class->object	25	programming->programming language	5	language->java	3
object->method	24	object->method	5	programming->programming language	2
programming->programming language	20	programming->language	3	language->c	2
class->method	14	programming language->java	3	programming->language	2
java->object	14	(many, shown in footnote) <sup>1</sup>	2	programming language->java	2
programming->program	13				
programming language->java	13				
programming->language	12				
object->variable	10				
language->c	8				
language->java	8				
variable->object	8				
program->class	8				
object->class	8				
Is it easy for you at the moment to learn programming?					
Very easy or easy (n=10+42=52)		Moderate (n=85)		Very difficult or difficult (n=1+9=10)	
Conceptual relationship	Occurrences	Conceptual relationship	Occurrences	Conceptual relationship	Occurrences
programming->programming language	12	class->object	19	object->method	3
object->method	9	object->method	17	class->object	2
class->object	6	programming->programming language	15	programming->language	2
programming->program	5	programming language->java	13	object-oriented programming->java	2
language->java	5	java->object	12	programmer->code	2
programming language->java	5	programming->language	11	programming->object-oriented programming	2
java->object-oriented programming	4	class->method	10		
class->method	4	object->variable	9		
language->c	4	programming->program	8		
programming->language	4	program->class	7		
variable->object	4				
object->class	4				
programming->variable	4				
Please give an estimate about how complex things your concept map is dealing with?					
Very simple or simple (n=32+83=115)		Moderate (n=26)		Very complex or complex (n=4+2=6)	
Conceptual relationship	Occurrences	Conceptual relationship	Occurrences	Conceptual relationship	Occurrences
object->method	25	programming->programming language	6	programming->language	2
class->object	22	class->object	4		
programming->programming language	21	object->method	4		
programming language->java	16	object->variable	3		
programming->language	14	programmer->program	3		
java->object	13	programming language->object-oriented programming	3		
class->method	12	(many, shown in footnote) <sup>2</sup>	2		
programming->program	11				
language->java	10				
object->variable	9				
language->c	9				

<sup>1</sup> Two occurrences: class->method; class->variable; input->method; method->object; method->output; method->variable; package->class; program->bug; program->class; program->compiler; program->function; program->library; program->user; programmer->programming; programming->logic; programming->program; programming language->c; programming language->java; programming language->machine language.

<sup>2</sup> Two occurrences: c->c++; class->object; class->variable; input->method; java->object-oriented programming; method->variable; method->output; object->variable; program->bug; program->class; program->compiler; program->function; program->library; programming language->c;

## References:

Lahti, L. (submitted 2014). Computer-assisted learning based on cumulative vocabularies, conceptual networks and Wikipedia linkage. Doctoral dissertation, Department of Computer Science, Aalto University, Finland.

## Appendix M

User interface of a prototype tool used by 147 university students of introductory Java programming course who we asked to draw with our method concept maps representing their knowledge about learning topic “programming” (texts provided only in Finnish), as discussed in Subchapter 8.2.

Concept map tool. (c) Lauri.Lahti@tkk.fi

Piirrä käsitekartta, joka kuvaa aihetta "ohjelmointi". Tyylilaji on vapaa ja aikaa 15 minuuttia.

**KÄSITTEET:** Lisää käsitteitä kirjoittamalla ilmaisu tekstikenttään ja painamalla "Uusi käsite".

**NUOLET:** Lisää käsitteiden välille selityksillä varustettuja nuolia.  
Valitse **lähtökäsite** (sininen) hiiren vasemmalla painikkeella ja **kohdekäsite** (punainen) hiiren oikealla painikkeella. Kirjoita suhdetta kuvaava ilmaisu tekstikenttään ja paina "Uusi nuoli".  
(Voit korvata hiiren oikean painikkeen yhdistelmällä Control/Ctrl-näppäin ja hiiren vasen painike.)

Rakenna käsitekartta, joka esittelee 10-20 tärkeintä käsitettä liittyen ohjelmointiin ja niiden väliset tärkeimmät suhteet. Tarvittaessa voit uudelleennimetä tai poistaa käsitteitä ja nuolia, sekä siirtää niitä raahaamalla. Alla on eräs esimerkki mahdollisesta käsitekartan rakenteesta. Luota rohkeasti omaan näkemykseesi, piirrä nopeasti ja paljon, suurpiirteisyyttä ei haittaa.

Teksti käsitteelle/nuolelle:

**Uusi käsite** **Uudelleen-nimeä käsite** **Poista käsite**

**Uusi nuoli** **Uudelleen-nimeä nuoli** **Poista nuoli**

Taustatietoja opiskelijasta:

Opiskelijanumero:  Ikä: Valitse:  Sukupuoli: Valitse:

Paljonko sinulla on kokemusta ohjelmoinnista ennen ohjelmointikurssia? Valitse:

Onko sinulle tällä hetkellä helppoa oppia ohjelmointia? Valitse:

Anna arvio, kuinka monimutkaisia asioita käsitekarttasi käsittelee. Valitse:

**Tallentaminen**  
(paina kun saat työsi valmiiksi) **Aikaa jäljellä 15 min.**

**Sample Concept Map:**

```
graph TD
    Pelto -- kasvupaikkana --> Vilja
    Vilja -- seos jossa mm. ruunoita --> Mysli
    Vilja -- jauhaminen esim. myllyssä --> Jauhot
    Jauhot -- sekoitetaan taikinaksi ja paistetaan --> Leipomotuotteet
    Hiiva -- auttaa kohoamaan --> Leipomotuotteet
    Leipomotuotteet -- makea --> Kakut_ja_leivokset
    Kakut_ja_leivokset -- terveellisempi vaihtoa --> Voileipä
    Jauhot -- perinteisesti vehnäväst --> Patonki
    Patonki -- suolainen --> Leipä
    Leipä -- vipsale, joka on vöndetty --> Voileipä
    Leipä -- Ranskassa tavallinen --> Patonki
    Jauhot -- esim. ruista tai vehnää --> Patonki
```

English translation of texts of the user interface:

Draw a concept map that describes topic "programming". Presentation style is free and available time 15 minutes.

CONCEPTS: Add concepts by drawing an expression to text field and pressing "New concept".

ARROWS: Add between concepts arrows supplied with descriptions. Select start concept (blue) with left mouse button and end concept (red) with right mouse button. Write expression that describes relation to text field and press "New arrow". (You can replace right mouse button with combination Control/Ctrl button and left mouse button.)

Build a concept map that presents 10-20 most important concepts concerning programming and the most important relationships between them. If needed you can rename or remove concepts and arrows and move them by dragging. Below is an example of possible structure of a concept map. Have a confidence with your own opinion, draw fast and a lot, approximateness is not a problem.

Text for concept/arrow.

New concept, rename concept, remove concept, new arrow, rename arrow, remove arrow.

Background information about the student.

Student number. Age (select), gender (select).

How much you have experience about programming before participating programming course? (select).

Is it easy for you at the moment to learn programming? (select).

Please give an estimate about how complex things your concept map is dealing with? (select).

Saving (press when you have finished your work). Time left 15 min.

(An example of concept map structure.)

Responses of 147 university students of introductory Java programming course who we asked to draw with our method concept maps representing their knowledge about learning topic "programming". After eliminating unclear responses and transforming all concepts to non-conjugated base forms, there were 167 unique concepts and 167 unique conceptual relationships between them mentioned by at least two students. Both a listing of these unique concepts and a listing of these unique conceptual relationships are shown in table below showing number of occurrences in all 147 concept maps.

<i>Concept</i>	<i>Occurrences (at most one occurrence counted for each student)</i>		<i>Conceptual relationship</i>	<i>Occurrences (at most one occurrence counted for each student)</i>
programming	90		object -> method	29
object	62		class -> object	27
method	60		programming -> programming language	27
java	57		programming language -> java	18
class	49		programming -> language	17
program	47		class -> method	14
programming language	44		java -> object	14
variable	41		programming -> program	14
python	31		object -> variable	12
c	29		language -> java	11
programmer	25		language -> c	10
language	24		program -> class	10
object-oriented programming	22		object -> class	9
computer	21		variable -> object	9
user	21		java -> object-oriented programming	8
compiler	20		language -> python	8
c++	19		programming language -> c	8
code	17		programming -> object	8
user interface	16		programming -> object-oriented programming	8
loop	13		programming language -> python	7
debugger	12		class -> variable	6
eclipse	12		method -> object	6
problem	11		object-oriented programming -> java	6
algorithm	9		programming -> computer	6
conditional sentence	9		programming -> java	6
int	9		programming -> tool	6
parameter	9		c -> c++	5
program code	9		code -> program	5
ready program	9		java -> class	5

starting method	9		method -> class	5
tool	9		method -> variable	5
library	8		package -> class	5
machine language	8		programmer -> program	5
testing	8		programmer -> programming	5
constructor	7		programmer -> programming language	5
list	7		programming -> programmer	5
string	7		programming -> user interface	5
double	6		programming -> variable	5
function	6		variable -> method	5
gui	6		class -> constructor	4
operating system	6		code -> compiler	4
planning	6		java -> variable	4
assembly	5		object-oriented programming -> object	4
bug	5		program -> user	4
debugging	5		programming language -> c++	4
grafical user interface	5		programming -> code	4
hardware	5		programming -> python	4
instance variable	5		user -> program	4
package	5		c -> language	3
php	5		java -> language	3
proessor	5		java -> method	3
application generator	4		language -> assembly	3
boolean	4		language -> paradigm	3
command	4		loop -> for	3
editor	4		loop -> while	3
information structure	4		method -> value	3
internet	4		object -> list	3
javascript	4		object-oriented programming -> class	3
lecture	4		object-oriented programming -> python	3
mathematics	4		problem -> programming	3
memory	4		program code -> object	3
paradigm	4		program -> code	3
primitive type	4		program -> library	3
primitive variable	4		program -> object	3
programming environment	4		program -> operating system	3
source code	4		program -> user interface	3
syntax	4		programmer -> code	3
value	4		programming language -> code	3
abstraction level	3		programming language -> machine language	3
aim	3		programming language -> object-oriented programming	3
application	3		programming -> assistive tool	3
application program	3		programming -> user	3
assistive tool	3		python -> language	3
basic	3		python -> object	3
char	3		tool -> compiler	3
client	3		tool -> debugger	3
coding	3		user -> code	3
concept	3		variable -> instance	3
for	3		variable -> local	3
functional programming	3		abstraction level -> high	2
functioning of program	3		abstraction level -> low	2
functioning program	3		assistive tool -> debugger	2
human	3		assistive tool -> eclipse	2
if	3		c++ -> language	2
instance	3		c++ -> object-oriented programming	2
keeper of the most recent	3		c++ -> program	2
local	3		class -> program code	2
logic	3		code -> programming language	2
parsing	3		compiler -> machine language	2
plan	3		computer -> code	2
structure	3		computer -> program	2
task	3		computer -> programming	2
while	3		eclipse -> debugger	2
virtual machine	3		editor -> code	2
visual basic	3		information -> variable	2

agile	2		input -> method	2
artificial intelligence	2		java -> concept	2
asm	2		java -> eclipse	2
basic data type	2		java -> loop	2
book	2		java -> program	2
c language	2		language -> c++	2
c#	2		library -> class	2
c/c++	2		loop -> do	2
clarity	2		loop -> programming	2
coder	2		memory -> processor	2
computation	2		method -> output	2
computer program	2		method -> parameter	2
constructor parameter	2		object -> algorithm	2
database	2		object -> object	2
development	2		object -> parameter	2
do	2		object -> programming	2
documentation	2		object-oriented programming -> variable	2
else	2		parameter -> method	2
environment	2		plan -> program code	2
example	2		primitive type -> boolean	2
for example java	2		problem -> program	2
function programming	2		problem -> programming language	2
function-based	2		program code -> class	2
google	2		program code -> variable	2
grafical	2		program -> application	2
hardware level	2		program -> bug	2
high	2		program -> compiler	2
history	2		program -> function	2
i	2		program -> hardware	2
ide	2		program -> method	2
information	2		program -> other programmer	2
information processing	2		program -> tool	2
input	2		program -> variable	2
integer	2		programmer -> user	2
java programming	2		programming environment -> eclipse	2
keeper of the most suitable	2		programming language -> php	2
local variable	2		programming language -> programming	2
logic operator	2		programming -> abstraction level	2
logic thinking	2		programming -> algorithm	2
loosing attention	2		programming -> c	2
low	2		programming -> c++	2
machine	2		programming -> class	2
not working	2		programming -> compiler	2
object-based	2		programming -> computer program	2
other	2		programming -> function	2
other language	2		programming -> information structure	2
other object	2		programming -> logic	2
other programmer	2		programming -> machine language	2
output	2		programming -> mathematics	2
pascal	2		programming -> method	2
private	2		programming -> other language	2
problem/task	2		programming -> program code	2
procedural programming	2		programming -> programming environment	2
public	2		programming -> style	2
result	2		programming -> theory	2
returning of value	2		processor -> program	2
role	2		starting method -> class	2
scheme	2		structure -> conditional sentence	2
software	2		testing -> programming	2
solution	2		tool -> application generator	2
studying	2		user interface -> grafical	2
style	2		user interface -> program	2
syntax error	2		user interface -> text-based	2
table	2		user interface -> user	2
text-based	2		user -> programmer	2
theory	2		variable -> class	2
type	2		variable -> double	2



utility program	2		variable -> instance variable	2
waterfall	2		variable -> int	2
web	2		variable -> keeper of the most recent	2
void	2		variable -> keeper of the most suitable	2
working life	2		variable -> parameter	2

This is a listing of response alternatives for self-evaluation of 147 university students of introductory Java programming course who we asked to draw with our method concept maps representing their knowledge about learning topic “programming” (analysis of responses given by students is discussed in Subchapter 8.2)

For three questions the student replied by selecting a most suitable answer from a scale of five given alternatives that are listed here next.

*Response alternatives for question “How much you have experience about programming before participating introductory programming course?” (it can be expected to be clear for the students from the context that this question refers specifically to their current introductory programming course):*

Very much; Much; Moderately; Little; or Very little.

(In Finnish: Paljonko sinulla on kokemusta ohjelmoinnista ennen ohjelmointikurssi?

Erittäin paljon; Paljon; Kohtalaisesti; Vähän; tai Erittäin vähän.)

*Response alternatives for question “Is it easy for you at the moment to learn programming?”:*

Very easy; Easy; Moderate; Difficult; or Very difficult.

(In Finnish: Onko sinulle tällä hetkellä helppoa oppia ohjelmointia?

Erittäin helppoa; Helppoa; Kohtalaista; Vaikeaa; tai Erittäin vaikeaa.)

*Response alternatives for question “Please give an estimate about how complex things your concept map is dealing with?”:*

Very complex; Complex; Moderate; Simple; or Very simple.

(In Finnish: Anna arvio, kuinka monimutkaisia asioita käsittelet?

Erittäin monimutkaisia; Monimutkaisia; Kohtalaisia; Yksinkertaisia; tai Erittäin yksinkertaisia.)

## Supplement to publication P6

Supplement to publication P6 that was referenced to by the original publication.

**P6:** Lahti, Lauri (2011b). Educational concept mapping method based on high-frequency words and Wikipedia linkage. Proc. 4th International Conference on Internet Technologies and Applications (ITA11), 6–9 September 2011, Wrexham, North Wales, UK (eds. Grout, V. et al.). Glyndwr University, Wrexham, Wales, UK. ISBN 978-0-946881-68-0. <http://www.ita11.org/papers.html>;  
<http://www.ita11.org/detailedProgramme.html>; <http://www.lulu.com/shop/vic-grout-and-stuart-cunningham-and-denise-oram-and-rich-picking/proceedings-of-the-fourth-international-conference-on-internet-technologies-and-applications-ita-11/ebook/product-17431522.html>



## **Supplement to Lauri Lahti's conference article "Educational concept mapping method based on high-frequency words and Wikipedia linkage"**

Lauri Lahti, 20110710 (updated in 2014)

### **Scientific reference:**

Please use following citation:

Lahti, L. (2011b). Educational concept mapping method based on high-frequency words and Wikipedia linkage. Proc. 4th International Conference on Internet Technologies and Applications (ITA11), 6–9 September 2011, Wrexham, North Wales, UK (eds. Grout, V. et al.). Glyndwr University, Wrexham, Wales, UK. ISBN 978-0-946881-68-0. <http://www.ita11.org/papers.html>; <http://www.ita11.org/detailedProgramme.html>; <http://www.lulu.com/shop/vic-grout-andstuart-cunningham-and-denise-oram-and-rich-picking/proceedings-of-the-fourth-international-conference-on-internettechnologies-and-applications-ita-11/ebook/product-17431522.html>  
Supplement data available at [http://www.cs.hut.fi/u/llahti/publ/lahti\\_2011b\\_data.pdf](http://www.cs.hut.fi/u/llahti/publ/lahti_2011b_data.pdf)

### **Empirical experiment of comparing traversed hyperlinks with conceptual relationships in concept maps**

(corresponding to analysis in Subchapter 9.3 and Appendixes K, N, R, and T of Lauri Lahti's doctoral dissertation "Computer-assisted learning based on cumulative vocabularies, conceptual networks and Wikipedia linkage" (Lahti 2014))

To verify the suggested pedagogic value of knowledge acquisition with the proposed method we gathered an extensive *collection of concept maps* drawn by 103 students describing their flow of association covering diverse pedagogic topics and containing 1827 conceptual relationships and compared them to corresponding *automated exploration patterns* in learning concept networks containing 1601 conceptual relationships generated with the proposed method. Here we mean with automated exploration pattern that the student is supplied with a computer-assisted navigation system that automatically retrieves and visualizes available hyperlinks to be traversed next from current concept but however student is expected to actively select the next hyperlink to traverse from provided set of alternative hyperlinks. Therefore we compared *traversed hyperlinks* in exploration paths in "hyperlink network of 55 concepts" (n=49) which we consider automated exploration patterns with *conceptual relationships in concept maps* drawn by students (n=103) which we consider non-automated exploration patterns. In this current analysis, the set of conceptual relationships in concept maps drawn by students is based on same sample that we introduced in Subchapter 3.9 (it is explained in Subchapter 3.9 how we gathered this sample).

In statistical comparison, we found positive correlation among the highest-ranking conceptual relationships between automated and non-automated exploration patterns in various topics with overlap ranging up to 60–70 percent, thus indicating that automated method can fruitfully guide the learner's exploration along paths that are intuitively preferred in non-automated learning. With resembling positive results, we found convincing overlap even when comparing automated exploration patterns of younger learners to non-automated exploration patterns of older learners thus indicating that the method can enhance maturing of learning process. Similarly, the method seemed to enhance how individual conceptual relationships agglomerated and concept maps matured along the exploration. It thus seems that the method can support learning with recommendations based on traversing hyperlink chains to form the closest mappings between all concepts of the learning concept networks.

Table 9.1 enables comparison of the highest-ranking core relationships<sup>1</sup> in concept maps drawn by students and the highest-ranking traversed hyperlinks of the Wikipedia in exploration paths of students (full listing is shown in Appendix N). Table 9.2 enables comparison of rankings of the highest-ranking core relationships of concept maps and the highest-ranking traversed hyperlinks that are shared by both listing of core relationships and listing of traversed hyperlinks (thus showing here all those relationships and hyperlinks indicated with an asterisk (\*) in Appendix N).

**Table 9.1.** Comparison of the highest-ranking core relationships in concept maps drawn by students (n=103) and the highest-ranking traversed hyperlinks of the Wikipedia in exploration paths of students (n=49), based on listings of Table 3.9 and Appendix K (full listing is show in Appendix N). Those relationships that exist in both listings are indicated with an asterisk (\*). This table is limited to shown only those core relationships having at least 6 occurrences and those traversed hyperlinks having at least 13 occurrences, for full listing see Appendix N. The number of traversals for hyperlinks departing from Human (i.e. value 19) includes all those traversals that originate from the fact that in the experiment all exploration paths of students had to start always from concept Human, however in parenthesis (i.e. value 2) is shown the number of traversals when excluding those traversed hyperlinks departing from concept Human that were the student's first traversed hyperlink in exploration path.

<i>Concept maps drawn by the students (n=103)</i>			<i>Exploration paths in the Wikipedia (n=49)</i>		
<i>Core relationships (i.e. relationships between 102 core concepts extended with concept "brother" that are mentioned by at least two students in concept maps drawn by students) shown so that each concept is transformed to the closest matching entry of Wikipedia article (relationships of concept maps do not have any specified linking direction, thus each pair of concepts are shown in alphabetical order) (n=103)</i>	<i>Occurrences (at most one occurrence counted for each student)</i>	<i>Ranking</i>	<i>Traversed hyperlinks of the Wikipedia in exploration paths of students (n=49)</i>	<i>Occurrences (at most one occurrence counted for each student)</i>	<i>Ranking</i>
Family≠Friendship	15	1	Happiness -> Emotion	29	1
* Birth≠Death	13	2s	* Emotion -> Love	26	2
* Family≠Love	13	2s	Joy -> Happiness	24	3s
Friendship≠School	10	3	* Disease -> Death	24	3s
* Family≠Home	9	4s	Happiness -> Joy	21	4
School≠Work	9	4s	Human -> Diet_(nutrition)	19 (2)	5s
* Animal≠Nature	8	5s	Emotion -> Experience	19	5s
* Friendship≠Love	8	5s	Experience -> Emotion (only to roll back)	18	6
* Child≠Family	7	6s	Organism -> Biology	17	7s
Death≠Living	7	6s	Adolescence -> Education	17	7s
* Family≠Father	7	6s	* Love -> Friendship	16	8
Family≠Living	7	6s	Education -> Learning	14	9s
Joy≠Sorrow	7	6s	Learning -> Education	14	9s
* Family≠Mother	6	7s	Emotion -> Happiness	14	9s
* Father≠Mother	6	7s	* Family -> Mother	13	10s
Food≠Water	6	7s	Diet_(nutrition) -> Health	13	10s
Friendship≠Hobby	6	7s	* Health -> Disease	13	10s
Money≠Work	6	7s			

<sup>1</sup> Please note that a specific meaning for term "core relationship" has been defined in Subchapter 3.10.

In contrast with practice used often elsewhere in this publication, in Table 9.1, Table 9.2 and Appendix N if ranking is based on shared ranking positions we have decided to give to all representatives of this shared position the same ranking value which is a ranking value that would have been used next if there was not need for sharing the position (i.e. we now avoid using an average of all ranking values that would have been used if there was not need for sharing the position and skipping corresponding number of ranking values). We decided to use all ranking values even in case of shared ranking so that our analysis about overlap of listing of corresponding highest-ranking core relationships and highest-ranking traversed hyperlinks could become more intuitive in the following text.

Figure 9.4 enables comparison of rankings of *highest-ranking core relationships of concept maps drawn by students* (34 relationships) and *highest-ranking traversed hyperlinks* in exploration paths of students (51 hyperlinks of which 17 are unidirectional and 34 have a hyperlink going also into opposite direction) that are shared by both listing of core relationships of concept maps and listing of traversed hyperlinks (thus showing here all those relationships and hyperlinks indicated with an asterisk (\*) in Appendix N).

Based on Table 9.2 we compared listing of highest-ranking core relationships in concept maps drawn by the students (in column 1) and listing of highest-ranking traversed hyperlinks of the Wikipedia in exploration paths of students (in column 4), this analysis was assisted by a third listing showing traversed hyperlinks of the Wikipedia in exploration paths of students in decreasing order of average of ranking values based on core relationships and traversed hyperlinks (in column 8).

When considering traversed hyperlinks that have a ranking position as high as possible in both listing of corresponding highest-ranking core relationships and highest-ranking traversed hyperlinks based on their average (in column 8) it turned out that four hyperlinks with this kind of highest average ranking positions (Love->Friendship, Disease->Death, Family->Mother and Love->Family) covered four ranking levels of seven first ranking levels for core relationships (based on ranking levels shown in column 3) and four ranking levels of eight first ranking levels for traversed hyperlinks (based on ranking levels shown in column 6). Thus with this sample we concluded that there was an overlap of core relationships and traversed hyperlinks in the range 50–57 percent ( $4/8=0.50$  and  $4/7\approx 0.57$ ).

Similarly when considering eight hyperlinks with this kind of highest average ranking positions in column 8 (Love -> Friendship, Disease -> Death, Family -> Mother, Love -> Family, Emotion -> Love, Animal -> Nature, Health -> Disease, Love -> Happiness) these eight hyperlinks covered eight ranking levels of nine first ranking levels for core relationships (based on ranking levels shown in column 3) and eight ranking levels of ten first ranking levels for traversed hyperlinks (based on ranking levels shown in column 6). Thus with this sample we concluded that there was an overlap of core relationships and traversed hyperlinks in the range 80–89 percent ( $8/10=0.80$  and  $8/9\approx 0.89$ ).

**Table 9.2 part 1 of 3** (starts here and continues on next page). Comparison of rankings of the highest-ranking core relationships of concept maps and the highest-ranking traversed hyperlinks that are shared by both listing of core relationships and listing of traversed hyperlinks (thus showing here all those relationships and hyperlinks indicated with an asterisk (\*) in Appendix N). To enable comparison of core relationships and traversed hyperlinks each concept of core relationship is transformed to the closest matching entry of Wikipedia article. Based on Table 9.1 and Appendix N (Appendix N shows full listing) this table shows only those core relationships of concept maps drawn by students and traversed hyperlinks of the Wikipedia in exploration paths of students that are shared by both listing of core relationships and listing of traversed hyperlinks (thus showing here all those relationships and hyperlinks indicated with an asterisk (\*) in Appendix N). In core relationships concepts are shown so that they are transformed to the closest matching entry of Wikipedia article. In columns 2 and 3 ranking values for core relationships are shown both among all core relationships and among only those core relationships that are shared with traversed hyperlinks of the Wikipedia in exploration paths of students. In columns 5 and 6 ranking values for traversed hyperlinks are shown both among all traversed hyperlinks and among only those traversed hyperlinks that are shared with core relationships. In column 7 ranking values are shown also for a traversed hyperlink going into opposite direction than current traversed hyperlink (if existing). In addition, column 9 shows a listing of traversed hyperlinks of the Wikipedia in exploration paths of students in decreasing order of average of ranking values based on core relationships and traversed hyperlinks. This listing of column 9 aims to suggest a ranking of such relationships and hyperlinks that appear among the highest-ranking positions in both listing of core relationships and traversed hyperlinks, relying on average of ranking values for current hyperlink and corresponding relationship (from columns 3 and 6). Please note that listing of core relationships is shorter than listing of traversed hyperlinks.

<i>Highest-ranking core relationships in concept maps drawn by the students (n=103)</i>			<i>Highest-ranking traversed hyperlinks of the Wikipedia in exploration paths of students (n=49)</i>				<i>Traversed hyperlinks of the Wikipedia in exploration paths of students in decreasing order of average of ranking values based on core relationships and traversed hyperlinks</i>	
Core relationships shown so that each concept is transformed to the closest matching entry of Wikipedia article (relationships of concept maps do not have any specified linking direction, each pair of concepts are shown in alphabetical order)	Ranking among all core relationships	Ranking among only those core relationships that are shared with traversed hyperlinks of the Wikipedia in exploration paths of students	Traversed hyperlinks	Ranking among all traversed hyperlinks	Ranking for a traversed hyperlink going into opposite direction than current traversed hyperlink (if existing)	Ranking among only those traversed hyperlinks that are shared with core relationships (so that each concept is transformed to the closest matching entry of Wikipedia article)	Traversed hyperlinks	Average of ranking values for current hyperlink and corresponding relationship (from third and sixth column)
Birth=Death	2s	1s	Emotion -> Love	2	12s	1	Love -> Friendship	3
Family=Love	2s	1s	Disease -> Death	3	14s	2	Disease -> Death	4.5s
Family=Home	4	2	Love -> Friendship	8	20s	3	Family -> Mother	4.5s
Animal=Nature	5s	3s	Family -> Mother	10s	21s	4s	Love -> Family	4.5s
Friendship=Love	5s	3s	Health -> Disease	10s		4s	Emotion -> Love	5
Child=Family	6s	4s	Love -> Happiness	11	18s	5	Animal -> Nature	6.5s
Family=Father	6s	4s	Friendship -> Adolescence	12s	not existing	6s	Health -> Disease	6.5s
Family=Mother	7s	5s	Love -> Emotion	12s	2	6s	Love -> Happiness	6.5s
Father=Mother	7s	5s	Biology -> Nature	13s	not existing	7s	Child -> Family	7s
Nature=Plant	8s	6s	Human -> Family	13s	not existing	7s	Family -> Child	7s
Plant=Tree	8s	6s	Oxygen -> Water	13s	19s	7s	Human -> Family	7s
Death=Disease	9s	7s	Death -> Disease	14s	3	8s	Biology -> Nature	7.5s
Family=Human	9s	7s	Death -> War	14s	not existing	8s	Death -> Disease	7.5s
Human=Love	9s	7s	Love -> Family	14s	not existing	8s	Friendship -> Adolescence	7.5s
Human=Nature	9s	7s	Family -> Sibling	15s	20s	9s	Love -> Emotion	7.5s

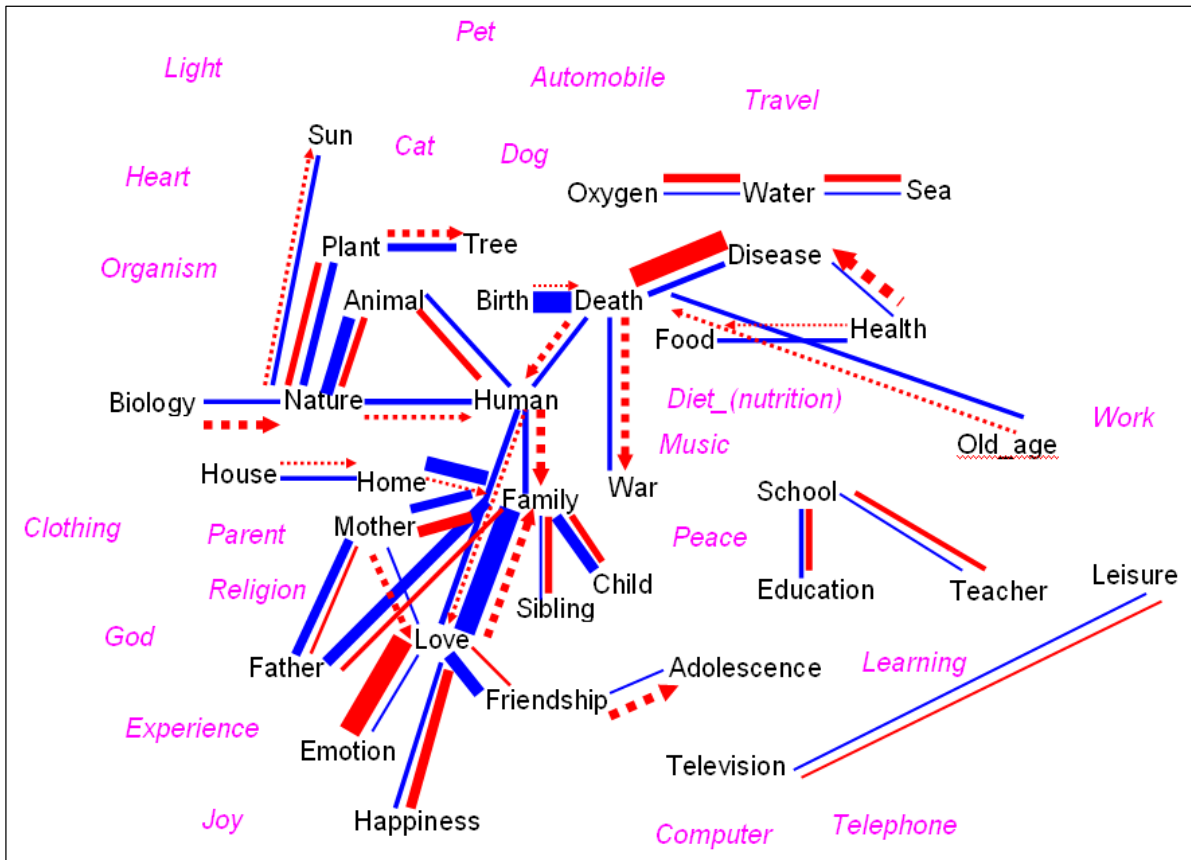
**Table 9.2 part 2 of 3** (started on previous page and continues here).

Highest-ranking core relationships in concept maps drawn by the students (n=103)			Highest-ranking traversed hyperlinks of the Wikipedia in exploration paths of students (n=49)				Traversed hyperlinks of the Wikipedia in exploration paths of students in decreasing order of average of ranking values based on core relationships and traversed hyperlinks	
Core relationships shown so that each concept is transformed to the closest matching entry of Wikipedia article (relationships of concept maps do not have any specified linking direction, each pair of concepts are shown in alphabetical order)	Ranking among all core relationships	Ranking among only those core relationships that are shared with traversed hyperlinks of the Wikipedia in exploration paths of students	Traversed hyperlinks	Ranking among all traversed hyperlinks	Ranking for a traversed hyperlink going into opposite direction than current traversed hyperlink (if existing)	Ranking among only those traversed hyperlinks that are shared with core relationships (so that each concept is transformed to the closest matching entry of Wikipedia article)	Traversed hyperlinks	Average of ranking values for current hyperlink and corresponding relationship (from third and sixth column)
Animal=Human	10s	8s	Plant -> Tree	15s	not existing	9s	Nature -> Animal	7.5s
Biology=Nature	10s	8s	Sea -> Water	15s	15s	9s	Plant -> Tree	7.5s
Death=Human	10s	8s	Water -> Sea	15s	15s	9s	Birth -> Death	8s
Death=Old_age	10s	8s	Animal -> Human	16s	21s	10s	Death -> War	8s
Death=War	10s	8s	Animal -> Nature	16s	18s	10s	Family -> Father	8s
Education=School	10s	8s	Child -> Family	16s	16s	10s	Home -> Family	8s
Food=Health	10s	8s	Death -> Human	16s	not existing	10s	Oxygen -> Water	8s
Happiness=Love	10s	8s	Education -> School	16s	16s	10s	Plant -> Nature	8s
Home=House	10s	8s	Family -> Child	16s	16s	10s	Father -> Family	8.5s
Nature=Sun	10s	8s	Mother -> Love	16s	not existing	10s	Friendship -> Love	8.5s
Adolescence=Friendship	11s	9s	Plant -> Nature	16s	19s	10s	Animal -> Human	9s
Disease=Health	11s	9s	School -> Education	16s	16s	10s	Death -> Human	9s
Emotion=Love	11s	9s	Teacher -> School	17	18s	11	Education -> School	9s
Family=Sibling	11s	9s	Family -> Father	18s	19s	12s	Family -> Sibling	9s
Leisure=Television	11s	9s	Happiness -> Love	18s	11	12s	School -> Education	9s
Love=Mother	11s	9s	Nature -> Animal	18s	16s	12s	Sea -> Water	9s
Oxygen=Water	11s	9s	Nature -> Human	18s	not existing	12s	Water -> Sea	9s
School=Teacher	11s	9s	School -> Teacher	18s	17	12s	Father -> Mother	9.5s
Sea=Water	11s	9s	Father -> Family	19s	18s	13s	Mother -> Father	9.5s
			Human -> Love	19s	not existing	13s	Mother -> Love	9.5s



**Table 9.2 part 3 of 3** (started two pages earlier and continues here).

<i>Highest-ranking core relationships in concept maps drawn by the students (n=103)</i>			<i>Highest-ranking traversed hyperlinks of the Wikipedia in exploration paths of students (n=49)</i>				<i>Traversed hyperlinks of the Wikipedia in exploration paths of students in decreasing order of average of ranking values based on core relationships and traversed hyperlinks</i>	
Core relationships shown so that each concept is transformed to the closest matching entry of Wikipedia article (relationships of concept maps do not have any specified linking direction, each pair of concepts are shown in alphabetical order)	Ranking among all core relationships	Ranking among only those core relationships that are shared with traversed hyperlinks of the Wikipedia in exploration paths of students	Traversed hyperlinks	Ranking among all traversed hyperlinks	Ranking for a traversed hyperlink going into opposite direction than current traversed hyperlink (if existing)	Ranking among only those traversed hyperlinks that are shared with core relationships (so that each concept is transformed to the closest matching entry of Wikipedia article)	Traversed hyperlinks	Average of ranking values for current hyperlink and corresponding relationship (from third and sixth column)
			Nature -> Plant	19s	16s	13s	Nature -> Human	9.5s
			Nature -> Sun	19s	not existing	13s	Nature -> Plant	9.5s
			Old_age -> Death	19s	not existing	13s	Happiness -> Love	10s
			Water -> Oxygen	19s	13s	13s	Human -> Love	10s
			Father -> Mother	20s	20s	14s	Mother -> Family	10s
			Friendship -> Love	20s	8	14s	Teacher -> School	10s
			Home -> Family	20s	not existing	14s	Nature -> Sun	10.5s
			House -> Home	20s	not existing	14s	Old_age -> Death	10.5s
			Mother -> Father	20s	20s	14s	School -> Teacher	10.5s
			Sibling -> Family	20s	15s	14s	House -> Home	11s
			Birth -> Death	21s	not existing	15s	Water -> Oxygen	11s
			Health -> Food	21s	not existing	15s	Health -> Food	11.5s
			Human -> Animal	21s	16s	15s	Human -> Animal	11.5s
			Leisure -> Television	21s	21s	15s	Sibling -> Family	11.5s
			Mother -> Family	21s	10s	15s	Leisure -> Television	12s
			Television -> Leisure (only to roll back)	21s	21s	15s	Television -> Leisure (only to roll back)	12s



**Figure 9.4.** Based on Table 9.2 this figure shows only those core relationships of concept maps drawn by students ( $n=103$ ) and traversed hyperlinks of the Wikipedia in exploration paths of students ( $n=49$ ) that are shared by both listing of core relationships of concept maps and listing of traversed hyperlinks (thus showing here all those relationships and hyperlinks indicated with an asterisk (\*) in Appendix N). Figure contains all 55 concepts that were available for exploration paths of students and concepts written in pink color do not belong to those core relationships of concept maps and traversed hyperlinks that are shared by both listings (each concept is transformed to the closest matching entry of Wikipedia article). Core relationships of concept maps are shown with blue lines and traversed hyperlinks with red lines. Greater width of line indicates higher position in ranking among those core relationships of concept maps and traversed hyperlinks that are shared by both listings, and the range of line widths is normalized for both listings to enable direct comparability. If there is a traversed hyperlink in both directions between two concepts the connection is supplied with a solid line and the higher one of two available line widths is shown. If there is a traversed hyperlink in only in one direction between two concepts the connection is supplied with a dotted line that indicates direction with an arrow.

**Distinctive exploration patterns in collective concept mapping for different collaborator roles based on Competing Values Framework (corresponding to analysis in Subchapter 4.3 of Lauri Lahti’s doctoral dissertation “Computer-assisted learning based on cumulative vocabularies, conceptual networks and Wikipedia linkage”)**

In publication [1] we have listed some common tasks for the suggested collaborative learning platform that are associated with each quadrant of Competing Values Framework model (see Table 4.1 (modified version of Table 1 originally published in publication [P1])). We think that tracking these tasks can enable generating automatically appropriate personal support for activities of each collaborator role. Our aim was to identify and describe some activities typically for using user interface of a computer application.

**Table 4.1** (modified version of Table 1 originally published in publication [P1]). Suggestion of some typical tasks for collaborator roles based on Competing Values Framework (CVF).

<i>Innovator-broker role (create)</i>	<i>Producer-director role (compete)</i>	<i>Coordinator-monitor role (control)</i>	<i>Facilitator-mentor role (collaborate)</i>
<ul style="list-style-type: none"> <li>- submits a lot of ideas</li> <li>- explores accordance of ideas and concept map</li> <li>- adds nodes to concept map</li> <li>- questions constraints</li> </ul>	<ul style="list-style-type: none"> <li>- sets goals for ideation</li> <li>- maintains holistic efficiency</li> <li>- comments concept map</li> <li>- aims at logic flow</li> </ul>	<ul style="list-style-type: none"> <li>- comments ideas</li> <li>- synthesizes ideas to map</li> <li>- edits concept map</li> <li>- references to ideas</li> </ul>	<ul style="list-style-type: none"> <li>- aims at agreement by personal messaging</li> <li>- distributes topics from concept map for reconsideration</li> <li>- adds arcs to concept map</li> <li>- references to concept map</li> </ul>

By analysing lists of typical activities identified for each collaborator role ((Quinn & Rohrbaugh 1983); (DeGraff & Quinn 2006); (Carte et al. 2006); (Pounder 2000); (Noypayak & Speece 1998)) we heuristically proposed in publication [P1] coarse frequency distributions for some activities performed with a collaborative learning platform. As we emphasized in publication [P1], the proposed coarse relative activity frequencies tried to loosely indicate how some activities are expected to be performed more by certain collaborator roles than by others. We suggested that empirical testing is needed to acquire actual frequency values. After publication of the publication [P1] we carried out empirical experiments with 66 students having ages in range 15–18 years and representing four roles of Competing Values Framework and we evaluated their collaborative concept map construction process in small groups. For each student we identified which of four major collaborator roles (shown in Table 4.1 (modified version of Table 1 published in publication [P1])) he represents by a questionnaire. Among these 66 students 24 represented Producer-director role (compete), 14 Innovator-broker role (create), 14 Coordinator-monitor role (control) and 14 Facilitator-mentor role (collaborate).

Without revealing in advance what is the purpose of the questionnaire we asked the student to fill in a competing values self-assessment questionnaire that is adapted from Quinn et al. ((Quinn et al. 1990, especially table 1.2 on page 21); (Quinn et al. 1996, especially table 1.2 on pages 23–24)) (shown in Appendix T) and among the six sets of four questions corresponding to each four major collaborator roles that role which received the highest number of points was selected as the role of the student for collaborative concept map construction process in small groups. In the questionnaire questions 1–6 concern having characteristics of innovator-broker role, then questions 7–12 producer-director role, next questions 13–18 coordinator-monitor role and finally then questions 19–24 facilitator-mentor role. Based on activities and dialogue we recorded for the individual

members of groups we gained a collection of statistical data that represents five persons for each of four of collaborator roles of Competing Values Framework, together twenty persons ( $n=20$ ), shown in Table 4.2. Even if sample sizes remain small we think that this experiment offered useful preliminary results.

We decided to use *one-way analysis of variance (ANOVA)* to test for differences in occurrences of twelve activities among four roles of Competing Values Framework based on values shown in Table 4.2 so that we considered so called F value representing the ratio of variance between groups to variance within groups. Before carrying out analysis of variance, we tested data for homogeneity of variance with Fligner-Killeen test of homogeneity of variance that has been considered robust to data that is not normally distributed and this test has a null hypothesis  $H_{fk}$  that variances for all samples are equal. It turned out that Fligner-Killeen test of homogeneity of variance for occurrences of twelve activities among four roles of Competing Values Framework, when considering occurrences by each role as samples for an activity, produced p-values in range from 0.09226 to 0.9787 thus meaning that the null hypothesis  $H_{fk}$  was not rejected at  $p<0.05$ .

According to one-way ANOVA, occurrences did not differ significantly among four roles in respect to following activities (since F values remained below critical value of 3.239 that corresponds to degrees of freedom  $df_{within\_groups}=20-4=16$  and  $df_{between\_groups}=4-1=3$  at  $p<0.05$ ): submitting ideas ( $F(3.16)=2.764$ ;  $p = 0.0759$ ), adding nodes to concept map ( $F(3.16)=1.565$ ;  $p=0.237$ ), adding arcs to concept map ( $F(3.16)=0.785$ ;  $p=0.519$ ), making references to ideas ( $F(3.16)=0.187$ ;  $P=0.904$ ), making and references to concept map ( $F(3.16)=0.591$ ;  $p=0.63$ ), commenting concept map ( $F(3.16)=1.087$ ;  $p=0.383$ ), synthesizing ideas to concept map ( $F(3.16)=1.064$ ;  $p=0.392$ ), distributing topics from concept map for reconsideration ( $F(3.16)=0.349$ ;  $p=0.79$ ), exploring accordance of ideas and concept map ( $F(3.16)=0.69$ ;  $p=0.572$ ), and requesting stimulation for creative thinking ( $F(3.16)=0.139$ ;  $p=0.935$ ).

On the other hand according to one-way ANOVA, occurrences differed significantly among four roles in respect to following two activities (since F values exceeded critical value of 3.239 that corresponds to degrees of freedom  $df_{within\_groups}=20-4=16$  and  $df_{between\_groups}=4-1=3$  at  $p<0.05$ ): commenting ideas ( $F(3.16)=6.39$ ;  $p=0.00472$ ) and sending coordination messages ( $F(3.16)=5.967$ ;  $p=0.00626$ ). Thus these two activities both required a *Tukey post-hoc test*.

Concerning activity of commenting ideas, Tukey post-hoc comparison of four roles was carried out and it indicated that role of coordinator-monitor (mean 6.0) had significantly higher occurrences than role of innovator-broker (mean 2.0) at  $p=0.0064730$ ; and it indicated also that role of facilitator-mentor (mean 5.4) had significantly higher occurrences than role of innovator-broker (mean 2.0) at  $p=0.0210340$ ; whereas other Tukey post-hoc comparisons were not statistically significant at  $p<0.05$ .

**Table 4.2.** Occurrences of twelve activities among four collaborator roles of Competing Values Framework so that each role represented by five persons (n=20).

<i>Groups of Competing Values Framework collaborator roles and their members</i>	<i>Submits ideas</i>	<i>Adds nodes to concept map</i>	<i>Adds arcs to concept map</i>	<i>Makes references to ideas</i>	<i>Makes references to concept map</i>	<i>Comments ideas</i>	<i>Comments concept map</i>	<i>Sends coordination messages</i>	<i>Synthesizes ideas to concept map</i>	<i>Distributes topics from concept map for reconsideration</i>	<i>Explores accordance of ideas and concept map</i>	<i>Requests stimulation for creative thinking</i>
<i>Innovator-broker (create)</i>	Occurrences	Occurrences	Occurrences	Occurrences	Occurrences	Occurrences	Occurrences	Occurrences	Occurrences	Occurrences	Occurrences	Occurrences
Person1	4	6	9	3	1	2	1	5	15	0	0	1
Person2	6	5	5	2	2	2	4	11	10	0	1	4
Person3	8	7	8	1	3	3	3	12	15	0	2	1
Person4	4	4	5	0	2	1	3	6	9	0	2	2
Person5	7	9	13	5	4	2	4	8	22	2	1	2
Average	5.8	6.2	8	2.2	2.4	2	3	8.4	14.2	0.4	1.2	2
Variance	3.2	3.7	11	3.7	1.3	0.5	1.5	9.3	26.7	0.8	0.7	1.5
Proportion of group	0.187097	0.22963	0.232558	0.314286	0.181818	0.119048	0.176471	0.168	0.23127	0.222222	0.103448	0.277778
<i>Producer-director (compete)</i>	Occurrences	Occurrences	Occurrences	Occurrences	Occurrences	Occurrences	Occurrences	Occurrences	Occurrences	Occurrences	Occurrences	Occurrences
Person6	3	4	4	2	2	2	4	5	8	0	0	1
Person7	5	10	13	0	6	2	7	11	23	2	3	3
Person8	5	6	5	5	3	5	4	12	11	0	23	2
Person9	6	7	8	0	4	4	6	13	15	0	2	0
Person10	8	3	5	2	2	4	4	14	8	1	1	3
Average	5.4	6	7	1.8	3.4	3.4	5	11	13	0.6	5.8	1.8
Variance	3.3	7.5	13.5	4.2	2.8	1.8	2	12.5	39.5	0.8	93.7	1.7
Proportion of group	0.174194	0.222222	0.203488	0.257143	0.257576	0.202381	0.294118	0.22	0.211726	0.333333	0.5	0.25
<i>Coordinator-monitor (control)</i>	Occurrences	Occurrences	Occurrences	Occurrences	Occurrences	Occurrences	Occurrences	Occurrences	Occurrences	Occurrences	Occurrences	Occurrences
Person11	2	6	6	1	1	6	3	10	12	0	1	0
Person12	14	7	7	2	1	8	1	25	14	1	2	6
Person13	18	6	16	1	8	3	8	21	22	1	1	0
Person14	7	9	12	2	6	9	8	17	21	0	0	0
Person15	13	4	7	1	4	4	4	17	11	1	7	1
Average	10.8	6.4	9.6	1.4	4	6	4.8	18	16	0.6	2.2	1.4
Variance	39.7	3.3	18.3	0.3	9.5	6.5	9.7	31	26.5	0.3	7.7	6.8
Proportion of group	0.348387	0.237037	0.27907	0.2	0.30303	0.357143	0.282353	0.36	0.260586	0.333333	0.189655	0.194444
<i>Facilitator-mentor (collaborate)</i>	Occurrences	Occurrences	Occurrences	Occurrences	Occurrences	Occurrences	Occurrences	Occurrences	Occurrences	Occurrences	Occurrences	Occurrences
Person16	8	10	8	5	3	4	5	12	18	0	1	2
Person17	11	7	9	1	2	7	2	12	16	0	0	1
Person18	9	8	11	2	5	6	5	15	19	0	9	4
Person19	10	9	12	0	3	4	4	13	21	0	2	2
Person20	7	8	9	0	4	6	5	11	17	1	0	1
Average	9	8.4	9.8	1.6	3.4	5.4	4.2	12.6	18.2	0.2	2.4	2
Variance	2.5	1.3	2.7	4.3	1.3	1.8	1.7	2.3	3.7	0.2	14.3	1.5
Proportion of group	0.290323	0.311111	0.284884	0.228571	0.257576	0.321429	0.247059	0.252	0.296417	0.111111	0.206897	0.277778
<i>All groups</i>												
Sum of occurrences	155	135	172	35	66	84	85	250	307	9	58	36
F values of ANOVA	2.764	1.565	0.7853	0.1867	0.5906	6.390	1.087	5.967	1.064	0.3492	0.6896	0.1391

Concerning activity of sending coordination messages, Tukey post-hoc comparison of four roles was carried out and it indicated that role of coordinator-monitor (mean value 18.0) had significantly higher occurrences than role of innovator-broker (mean value 8.4) at  $p=0.0042674$ ; and it indicated also that role of coordinator-monitor (mean value 18.0) had significantly higher occurrences than role of producer-director (mean value 11.0) at  $p=0.0395745$ ; whereas other Tukey post-hoc comparisons were not statistically significant at  $p<0.05$ .

These just described results of one-way ANOVA should be considered with some uncertainty, for example due to limited sample sizes, but they offer some insight for modeling activity patterns of four different roles of Competing Values Framework.

Based on Table 4.2 we still wanted to present in compact form the frequency distributions for collaborative activities in respect to each four major collaborator role in Table 4.3 (modified version of Table 2 originally published in publication [P1]). These new empirical values differ from the previous values heuristically suggested in publication [P1] and we suggest that these new frequency distributions should be given priority when implementing an automated monitoring and guidance system for creative collaborative work as suggested in publication [P1]. The more general listing of activities in Table 4.1 (modified version of Table 1 originally published in publication [P1]) is slightly reformulated in Table 4.3 (modified version of Table 2 originally published in publication [P1]) to suit more specific context of the collaborative learning platform implemented with prototype.

As already mentioned, in our proposed method each collaborator is asked to fill in a self-assessment questionnaire adapted from Quinn et al. ((Quinn et al. 1990, especially table 1.2 on page 21); (Quinn et al. 1996, especially table 1.2 on pages 23–24)) to identify her dominant collaborator role in respect to Competing Values Framework. However sometimes it can turn out that the persons available for collaboration do not have a balanced distribution of all four collaborator roles. To address also these situations, we suggest that based on the set of questions of questionnaire receiving the highest number of points the most matching collaborator roles are given to participants but an additional requirement is to ensure that each of the four roles are taken by someone and with less than four persons requires a person being responsible for several roles. Thus sometimes a person needs to take a collaborator role that is not the most dominant for her but anyway she is among the available persons the person who has received the highest number of points in respect to set of questions concerning that role.

We think that each collaborating group benefits from having a freedom to decide itself about practical guidelines for practically performing their creative work together, including sharing responsibilities and agreeing on timing patterns. We think that the complementing efforts from each collaborator should be let to be generated spontaneously without any strict predefined constraints. Anyway, to support exploitation of the specific complementing strengths of each collaborator we propose that a collaborative learning platform monitors activity patterns of each collaborator role and if they differ sufficiently from the expected activity profiles the system asks the representatives of this role to adjust that activity to follow the expected profile. This practise aims to ensure most productive collaboration. For example, the system can measure activity distribution during preceding 5 minutes and if the measured activity of a collaborator differs with a sufficient number of percents from her expected activity profile she will be informed and asked to adjust her activity to more closely match expected activity profile. If the situation does not change after three reminders the system sends a notice also to other collaborators. In publication [P1] we suggested

that if activity departs from expected activity profile over 20 percent the system intervenes but based on later experiments we suggest giving tolerance for variation until the activity frequencies reach a new maximum or a minimum value, as discussed later in this Chapter 4.

**Table 4.3** (modified version of Table 2 originally published in publication [P1]). Some empirically gained activity frequencies for 12 activities among four collaborator roles of Competing Values Framework so that each role represented by five persons (n=20). For each activity the highest activity frequency is supplied with an asterisk (\*) and if there are more than one activity sharing this highest value all of them are supplied with a double asterisk (\*\*). For example, in a collaborative ideation session a person having Innovator-broker role is expected to contribute about 18.7 percent of all activities dealing with “submitting ideas”, Producer-director about 17.4 percent, Coordinator-monitor about 34.8 percent and Facilitator-mentor about 29.0 percent respectively. These empirically gained values can be contrasted with heuristically approximated values that we published in publication [P1] and can be seen in Appendix R.

<i>Type of activity</i>	<i>Innovator-broker role (create)</i>	<i>Producer-director role (compete)</i>	<i>Coordinator-monitor role (control)</i>	<i>Facilitator-mentor role (collaborate)</i>	$\Sigma$
Submits ideas	0.187096774	0.174193548	0.348387097*	0.290322581	1.000
Adds nodes to concept map	0.22962963	0.222222222	0.237037037	0.311111111*	1.000
Adds arcs to concept map	0.23255814	0.203488372	0.279069767	0.284883721*	1.000
Makes references to ideas	0.314285714*	0.257142857	0.200000000	0.228571429	1.000
Makes references to concept map	0.181818182	0.257575758	0.303030303*	0.257575758	1.000
Comments ideas	0.119047619	0.202380952	0.357142857*	0.321428571	1.000
Comments concept map	0.176470588	0.294117647*	0.282352941	0.247058824	1.000
Sends coordination messages	0.168000000	0.220000000	0.360000000*	0.252000000	1.000
Synthesizes ideas to concept map	0.231270358	0.211726384	0.260586319	0.296416938*	1.000
Distributes topics from concept map for reconsideration	0.222222222	0.333333333**	0.333333333**	0.111111111	1.000
Explores accordance of ideas and concept map	0.103448276	0.500000000*	0.189655172	0.206896552	1.000
Requests stimulation for creative thinking	0.277777778**	0.250000000	0.194444444	0.277777778**	1.000

It needs to be emphasized that we think that useful activity frequency distributions should be measured for also many other types of activities than those shown in Table 4.3 (modified version of Table 2 originally published in publication [P1]). We think that with increasing number of parallel activity measures it could be possible to offer better guidance for each type of collaborative complementing efforts that can be generated by specific strengths belonging to representatives of each possible collaborator role of Competing Values Framework. Besides Competing Values Framework, we think that also for other types of theoretically motivated collaborator roles it could be possible to similarly identify strengths for each collaborator and the system could monitor that expected activity profiles most fertile for collaboration are met and if not the collaborators are asked to reach the expected activity profiles. Anyway, we decided to limit the scope of publication [P1] to cover estimating the activity frequencies only for the model Competing Values Framework.

It is challenging to empirically measure the pedagogical effect coming from automated guidance that aims to keep activity frequencies of collaborators close to the expected values. Anyway after publication of publication [P1] we carried out empirical user tests that seemed to indicate that learners maintaining their activity frequencies most regularly close to expected values could generate more rich contribution to collaborative process of building knowledge structures than learners maintaining their activity frequencies less regularly close to expected values.

We think that more detailed further analysis of correlation and causality about for example timing practices concerning the distribution of different activities of collaborators and following a specific order of performance can reveal new insight about how each individual collaborator role can proceed in collaboration activities most fruitfully and naturally thus offering best benefits both individually and collectively. Thus by getting more understanding about the characteristics and models governing each collaborator's typical fertile activities the system could then support best the learner by intervening fruitfully and supportingly at moments when it seems that the learners would benefit from doing something specific that however she now has not yet figured out to do.

Individual variation among persons having same collaborator role, causes that the suggested activity frequencies should not be seen as strict values but instead indicating approximate tendencies. Our empirical results with Competing Values Framework show that collaborator role of Coordinator-monitor has leading frequency in four types of activity, Facilitator-mentor has in four types of activity, Producer-director has in three types of activity and Innovator-broker in one type of activity. However, this does not necessitate that role Innovator-broker is more passive than other roles in collaboration in respect to all kinds of imaginable activities. If activity frequencies for additional alternative types of activities are measured in future research it may turn out that the number of leading frequencies for each role and balance of them is completely different. An important task for future research is to try to find most expressive way to classify and identify collaborator roles types, their strengths and measurable activities for each role.

We present now here additional findings and how they can be incorporated into our original model and how they affect our previous analysis and conclusion reported in the publication [P1]. It appeared that our heuristically approximated frequencies (see Appendix R) differed from the experimentally gained frequencies with some major features. Firstly, the heuristically approximated frequencies had a general difference that each unique type of performance had a distribution of frequencies that was unrealistically wide. This means that despite some extreme individual variations, the general average difference between different collaborator roles remains in empirical values only in relatively small range. So instead of having several multiples of other frequencies (other frequencies being even 200–400 percent greater than others) typically we observed at most 200 percent greater frequencies.

Also our later experiments showed that we originally defined a too tight and strict threshold (20 percent) for the monitoring system to intervene with encouraging the user to modify the frequency of the activities belonging to their collaborator role. We now consider that the system should not be directly intervening depending on a fixed percentage in the activity level for a certain collaborator role but instead be relative to the broader distribution pattern of activity frequencies of the collaborator roles. We suggest giving tolerance for variation until the activity frequencies reach a new maximum or a minimum value. This means that for each type of activity the system does not intervene as long as the activity role having the highest value in expected activity frequency profile has not yet been passed above by the collaborator representing another role and as the activity role



having the lowest value in expected activity frequency profile has not yet been passed below by the collaborator representing another role.

As briefly mentioned in publication [P6], our later supplementary empirical experiments with a group of 66 students also indicated that persons representing different collaborator roles based on Competing Values Framework produced distinctive exploration patterns in collective concept mapping as suggested in publication [P1].

Table 4.4 shows the conceptual relationships having the highest number of occurrences for each of four collaborator roles of Competing Values Framework when considering only those relationships mentioned by at least two representatives of this collaborator role (linking direction was not specified in relationships of concept maps). For each collaborator role we have indicated with an asterisk (\*) those relationships that do not exist in listings of other collaborator roles in this table. Since among 66 students 24 represented Producer-director role (compete), 14 Innovator-broker role (create), 14 Coordinator-monitor role (control) and 14 Facilitator-mentor role (collaborate) we show for Producer-director role (compete) also values that have been normalized (indicated with a double asterisk (\*\*)) to correspond the same number of students (14) that was the number of students of each of the other roles.

Even if from this small sample strong conclusions cannot be made, in Table 4.4 it seems to us that certain conceptual relationships occurred more frequently in concept mapping by certain collaborator roles of Competing Values Framework, and these promoted relationships can possibly even have same correlations with the characteristics associated with this collaborator role according to Competing Values Framework. Persons representing Innovator-broker role (create) associated with flexibility and readiness promoted for example relationship education↔school. Persons representing Coordinator-monitor role (control) associated with information management and communication promoted for example relationship school↔teacher. Persons representing Producer-director role (compete) associated with planning and goal-setting promoted for example relationship education↔work. Persons representing Facilitator-mentor role (collaborate) associated with cohesion and morale promoted for example relationship animal↔god.

**Table 4.4.** In exploration patterns in collective concept mapping those conceptual relationships having the highest number of occurrences for each of four collaborator roles of Competing Values Framework when considering only those relationships mentioned by at least two representatives of this collaborator role (linking direction was not specified in relationships of concept maps). For each collaborator role we have indicated with an asterisk (\*) those relationships that do not exist in listings of other collaborator roles in this table. Since among 66 students 24 represented Producer-director role (compete), 14 Innovator-broker role (create), 14 Coordinator-monitor role (control) and 14 Facilitator-mentor role (collaborate) we show for Producer-director role (compete) also values that have been normalized (indicated with a double asterisk (\*\*)) to correspond the same number of students (14) that was the number of students of each of the other roles.

Facilitator-mentor role (collaborate) (n=14)		Producer-director role (compete) (n=24)			Coordinator-monitor role (control) (n=14)		Innovator-broker role (create) (n=14)	
relationship	occurrences	relationship	occurrences (n=24)	normalized occurrences ** (estimates corresponding to n=14)	relationship	occurrences	relationship	occurrences
family=home	3	family=love	5	2.92	friend=school	4	joy=sorrow	3
family=love	3	food=water *	4	2.33	father=mother *	3	birth=death	2
birth=death	2	education=work *	3	1.75	family=friend *	3	animal=dog *	2
friend=love	2	family=living *	3	1.75	home=house *	2	friend=school	2
animal=god *	2	friend=love	3	1.75	family=mother *	2	death=sorrow *	2
family=father	2	air=water *	2	1.17	family=father	2	death=living *	2
study=work *	2	fire=ground *	2	1.17	child=wife *	2	cat=dog	2
death=nature *	2	air=ground *	2	1.17	animal=family *	2	education=school *	2
birth=nature *	2	family=home	2	1.17	friend=hobby *	2	family=happiness *	2
living=purpose *	2	joy=sorrow	2	1.17	school=teacher *	2		
		breathing=human *	2	1.17	school=work *	2		
		friend=pet *	2	1.17	birth=death	2		
					diversity=nature *	2		
					family=reproduction *	2		
					birth=reproduction *	2		
					drink=food *	2		
					cat=dog	2		

Based on Table 4.4, Table 4.5 shows the most occurring concepts in conceptual relationships having the highest number of occurrences for each collaborator role of Competing Values Framework when considering only those relationships mentioned by at least two representatives of this collaborator role. For each collaborator role we have indicated with an asterisk (\*) those concepts that do not exist in listings of other collaborator roles in this table. Like in Table 4.4 we show also in Table 4.5 for Producer-director role (compete) also values that have been normalized (indicated with a double asterisk (\*\*)) to correspond the same number of students (14) that was the number of students of each of the other roles.

Similarly as with Table 4.4, even if from this small sample strong conclusions cannot be made, in Table 4.5 it seems to us that certain concepts occurred more frequently in concept mapping by certain collaborator roles of Competing Values Framework, and these promoted concepts can possibly even have same correlations with the characteristics associated with this collaborator role according to Competing Values Framework. Persons representing Innovator-broker role (create) associated with flexibility and readiness promoted for example concept happiness. Persons

representing Coordinator-monitor role (control) associated with information management and communication promoted for example concept diversity. Persons representing Producer-director role (compete) associated with planning and goal-setting promoted for example concept breathing. Persons representing Facilitator-mentor role (collaborate) associated with cohesion and morale promoted for example concept god.

**Table 4.5.** In exploration patterns in collective concept mapping those most occurring concepts in conceptual relationships having the highest number of occurrences for each collaborator role of Competing Values Framework when considering only those relationships mentioned by at least two representatives of this collaborator role (based on Table 4.4). For each collaborator role we have indicated with an asterisk (\*) those concepts that do not exist in listings of other collaborator roles in this table. Like in Table 4.4 we show also in Table 4.5 for Producer-director role (compete) also values that have been normalized (indicated with a double asterisk (\*\*)) to correspond the same number of students (14) that was the number of students of each of the other roles.

Facilitator-mentor role (collaborate) (n=14)		Producer-director role (compete) (n=24)			Coordinator-monitor role (control) (n=14)		Innovator-broker role (create) (n=14)	
concept	occurrences	concept	occurrences (n=24)	normalized occurrences ** (estimates corresponding to n=14)	concept	occurrences	concept	occurrences
family	8	family	10	5.83	family	11	death	6
love	5	love	8	4.67	friend	9	sorrow	5
birth	4	water *	6	3.5	school	8	dog	4
death	4	friend	5	2.92	father	5	school	4
nature	4	air *	4	2.33	mother *	5	joy	3
home	3	food	4	2.33	birth	4	animal	2
animal	2	ground *	4	2.33	reproduction *	4	birth	2
father	2	education	3	1.75	animal	2	cat	2
friend	2	living	3	1.75	cat	2	education	2
god *	2	work	3	1.75	child *	2	family	2
living	2	breathing *	2	1.17	death	2	friend	2
purpose *	2	fire *	2	1.17	diversity *	2	happyness *	2
study *	2	home	2	1.17	dog	2	living	2
work	2	human *	2	1.17	drink *	2		
		joy	2	1.17	food	2		
		pet *	2	1.17	hobby *	2		
		sorrow	2	1.17	home	2		
					house *	2		
					nature	2		
					teacher *	2		
					wife *	2		
					work	2		

Interestingly in both Table 4.4 and Table 4.5 it turned out that collaborator roles Producer-director role (compete) and Facilitator-mentor role (collaborate) seemed to have connectivity for concept love and collaborator roles Innovator-broker role (create) and Coordinator-monitor role (control) seemed to have connectivity for concept school. Thus when considering four quadrants of Competing Values Framework the two roles belonging to opposite quadrants seem to possibly be coupled by prioritizing at least to some extent certain concepts and certain relationships.

**References:**

Lahti, L. (submitted 2014). Computer-assisted learning based on cumulative vocabularies, conceptual networks and Wikipedia linkage. Doctoral dissertation, Department of Computer Science, Aalto University, Finland.

## Appendix K

Listing of the highest-ranking traversed hyperlinks of the Wikipedia in exploration paths of students (n=49), shown for all students and also separately for male students (n=18) and female students (n=31). Exploration experiment with students was carried out in “hyperlink network of 55 concepts” containing 212 hyperlinks connecting 55 concepts. All 212 hyperlinks of “hyperlink network of 55 concepts” are connecting concepts that are reachable (by traversing one or more intermediate hyperlinks) from concept Human in exploration paths (containing 55 concepts including concept Human). This listing shows the number of traversals for those hyperlinks of 212 hyperlinks that became traversed by students and as well as for additional roll back hyperlinks (shown in Appendix J). Please note that in exploration experiment each student was allowed to traverse each hyperlink belonging to “hyperlink network of 55 concepts” at most once (except in case of roll back hyperlinks).

This listing also shows for all students the number of selectable alternative hyperlinks (average) shown to the student when she selected to traverse a hyperlink that was just before traversing current hyperlink. The number of traversals for hyperlinks departing from Human includes all those traversals that originate from the fact that in the experiment all exploration paths of students had to start always from concept Human, however in parenthesis is shown the number of traversals when excluding hyperlinks departing from concept Human that were the student’s first traversed hyperlink in exploration path. Indicated with an asterisk (\*), for hyperlinks departing from concept Human the number of selectable alternative hyperlinks (average) is calculated only based on those traversals of hyperlinks departing from concept Human that were not the student’s first traversed hyperlink in her exploration path. Among 16 alternative hyperlinks departing from concept Human there did not occur any traversals for hyperlinks Human->God and Human->Old\_age.

<i>All students participating in exploration task (n = 49)</i>			<i>All male students participating in exploration task (n = 18)</i>		<i>All female students participating in exploration task (n = 31)</i>	
<i>Traversed hyperlink (current hyperlink)</i>	<i>Number of traversals</i>	<i>Number of selectable alternative hyperlinks (average) shown to student when she selected to traverse a hyperlink that was just before traversing current hyperlink</i>	<i>Traversed hyperlink</i>	<i>Number of traversals</i>	<i>Traversed hyperlink</i>	<i>Number of traversals</i>
Happiness -> Emotion	29	3.758621	Animal -> Nature	4	Happiness -> Emotion	25
Emotion -> Love	26	1.846154	Joy -> Happiness	4	Emotion -> Love	23
Joy -> Happiness	24	2.125	Happiness -> Joy	4	Disease -> Death	22
Disease -> Death	24	4.625	Happiness -> Emotion	4	Joy -> Happiness	20
Happiness -> Joy	21	4.285714	Sun -> Oxygen	3	Adolescence -> Education	17
Human -> Diet (nutrition)	19 (2*)	5.5*	Sun -> Plant	3	Happiness -> Joy	17
Emotion -> Experience	19	7.263158	Biology -> Animal	3	Human -> Diet (nutrition)	16
Experience -> Emotion (only to roll back)	18	3.833333	Organism -> Biology	3	Emotion -> Experience	16
Organism -> Biology	17	5.176471	Organism -> Plant	3	Experience -> Emotion (only to roll back)	15
Adolescence -> Education	17	6.764706	Organism -> Heart	3	Organism -> Biology	14
Love -> Friendship	16	2.75	Oxygen -> Sun	3	Education ->	14

						Learning	
Education -> Learning	14	3.428571		Oxygen -> Plant	3	Learning -> Education	14
Learning -> Education	14	5.642857		Oxygen -> Water	3	Love -> Friendship	14
Emotion -> Happiness	14	3.571429		Human -> Diet (nutrition)	3	Family -> Mother	12
Family -> Mother	13	8.384615		Plant -> Nature	3	Health -> Disease	12
Diet (nutrition) -> Health	13	14.92308		Plant -> Tree	3	Diet (nutrition) -> Health	11
Health -> Disease	13	10.38462		Experience -> Emotion (only to roll back)	3	Emotion -> Happiness	11
Love -> Happiness	11	6.363636		Happiness -> Love (only to roll back)	3	Emotion -> Joy	10
Emotion -> Joy	11	2.090909		Love -> Happiness	3	Friendship -> Adolescence	10
Love -> Emotion	10	5.4		Emotion -> Experience	3	Biology -> Nature	9
Friendship -> Adolescence	10	5.3		Emotion -> Happiness	3	Human -> Adolescence	9
Biology -> Nature	9	3.444444		Emotion -> Love	3	Adolescence -> Child	9
Organism -> Plant	9	4.888889		Automobile -> Oxygen	2	Love -> Emotion	9
Oxygen -> Water	9	6.333333		Animal -> Organism	2	Human -> Family	8
Human -> Adolescence	9 (2*)	7*		Oxygen -> Automobile	2	Human -> Emotion	8
Human -> Family	9 (6*)	7.333333*		Death -> Organism	2	Experience -> Learning (only to roll back)	8
Human -> Emotion	9 (3*)	6		Nature -> Animal	2	Death -> Disease	8
Adolescence -> Child	9	9.555556		Nature -> Human	2	Death -> War	8
Sun -> Plant	8	5.375		Travel -> Water	2	Learning -> Experience	8
Organism -> Heart	8	5.875		Family -> Father	2	Love -> Happiness	8
Human -> Health	8 (3*)	6.666667*		Tree -> Oxygen	2	War -> Peace	8
Experience -> Learning (only to roll back)	8	1.75		Love -> Biology	2	Biology -> Organism	7
Death -> Disease	8	1.75		Love -> Friendship	2	Human -> Health	7
Death -> War	8	1.75		Diet (nutrition) -> Organism	2	Family -> Sibling	7
Learning -> Experience	8	7.375		Diet (nutrition) -> Health	2	Love -> Family	7
Love -> Family	8	3.5		Disease -> Death	2	Organism -> Plant	6
War -> Peace	8	8.5		Sibling -> Love	2	Animal -> Human	6
Mother -> Parent	8	4.5		Heart -> Organism	2	Oxygen -> Water	6
Biology -> Organism	7	5.857143		Health -> Diet (nutrition)	2	Joy -> Emotion (only to roll back)	6
Biology -> Animal	7	4.142857		Parent -> Sibling	2	School -> Education	6
Oxygen -> Plant	7	6		Water -> Oxygen	2	Education -> School	6
Joy -> Emotion (only to roll back)	7	1.142857		Water -> Travel	2	Education -> Adolescence	6
Plant -> Tree	7	2.571429		Friendship -> Animal	2	Education -> Leisure	6
Sea -> Water	7	7.857143		Mother -> Parent	2	Death -> Human	6
Family -> Sibling	7	9.428571		Biology -> Human	1	Child -> Family	6
Sibling -> Love	7	5.571429		Biology -> Plant	1	Sea -> Water	6
Water -> Sea	7	6.428571		Animal -> Oxygen	1	Teacher -> Learning	6
Sun -> Oxygen	6	3.5		Animal -> Water	1	Family -> Child	6
Animal -> Human	6	5.666667		Oxygen -> Disease	1	Peace -> Education	6
Animal -> Nature	6	7.333333		Human -> Oxygen	1	Water -> Sea	6
Human -> Happiness	6 (5*)	6.6*		Human -> Happiness	1	Mother -> Parent	6
Plant -> Nature	6	4.333333		Human -> Family	1	Sun -> Plant	5
Plant -> Light	6	3.5		Human -> War	1	Organism -> Heart	5
School -> Education	6	3.5		Human -> Health	1	Human -> Happiness	5
Education ->	6	2.833333		Human -> Emotion	1	Plant -> Light	5

School							
Education -> Adolescence	6	2		Human -> Religion	1	Education -> Human	5
Education -> Leisure	6	1.833333		Joy -> Emotion (only to roll back)	1	Education -> Teacher	5
Death -> Organism	6	1		Father -> Family	1	Child -> Adolescence	5
Death -> Human	6	1.333333		Father -> Sibling	1	Teacher -> School	5
Child -> Family	6	3.333333		Father -> Mother	1	Sibling -> Love	5
Teacher -> Learning	6	5.5		God -> Father	1	Health -> Biology	5
Family -> Child	6	6.5		Plant -> Biology	1	Work -> Leisure (only to roll back)	5
Peace -> Education	6	3		Plant -> Animal	1	Parent -> Human	5
Diet_(nutrition) -> Organism	6	13.83333		Plant -> Light	1	Parent -> Birth	5
Heart -> Organism (only to roll back)	6	2.333333		Plant -> Water	1	Leisure -> Work	5
Mother -> Love	6	4.833333		Death -> Heart	1	Mother -> Love	5
Biology -> Human	5	4.8		Nature -> Sun	1	Biology -> Animal	4
Human -> War	5 (3*)	5.666667*		Nature -> Organism	1	Biology -> Human	4
God -> Father	5	3		Nature -> Oxygen	1	Oxygen -> Plant	4
Education -> Human	5	2.2		Sea -> Water	1	Human -> War	4
Education -> Teacher	5	2.4		Family -> Mother	1	Father -> Love	4
Death -> Heart	5	1.6		Tree -> Water	1	God -> Father	4
Child -> Adolescence	5	5.2		Love -> Family	1	Plant -> Tree	4
Teacher -> School	5	4.2		Love -> Emotion	1	School -> Teacher	4
Tree -> Oxygen	5	7.4		Diet_(nutrition) -> Religion	1	Death -> Organism	4
Love -> Biology	5	1.6		Disease -> Oxygen (only to roll back)	1	Death -> Heart	4
Heart -> Death (only to roll back)	5	6.6		Sibling -> Parent	1	Child -> Parent	4
Health -> Biology	5	4		War -> Disease	1	Adolescence -> Old_age	4
Work -> Leisure (only to roll back)	5	4.8		Heart -> Death (only to roll back)	1	Family -> Leisure	4
Religion -> God	5	2.4		Health -> Disease	1	Diet_(nutrition) -> Organism	4
Light -> Sun	5	6.2		Emotion -> Joy	1	War -> Religion	4
Parent -> Human	5	6		Religion -> Sun	1	Heart -> Organism	4
Parent -> Birth	5	6.4		Religion -> God	1	Heart -> Death (only to roll back)	4
Leisure -> Work	5	5.2		Light -> Sun	1	Religion -> God	4
Animal -> Organism	4	4.25		Parent -> Mother	1	Light -> Sun	4
Father -> Love	4	4.75		Water -> Sun	1	Leisure -> Family	4
School -> Teacher	4	9.5		Water -> Human	1	Sun -> Oxygen	3
Child -> Parent	4	4.25		Water -> Plant	1	Human -> Love	3
Nature -> Animal	4	6.5		Water -> Sea	1	Human -> Clothing	3
Nature -> Human	4	6.25		Mother -> Love	1	Plant -> Organism	3
Adolescence -> Old_age	4	9.25				Plant -> Nature	3
Happiness -> Love	4	3				Nature -> Plant	3
Family -> Father	4	5.75				Adolescence -> Television	3
Family -> Leisure	4	7.75				Learning -> Teacher (only to roll back)	3
War -> Religion	4	6.75				Tree -> Oxygen	3
Health -> Diet_(nutrition)	4	7.5				Love -> Biology	3
Leisure -> Family	4	5.25				Diet_(nutrition) -> Death	3
Water -> Sun	4	2.75				Birth -> Animal	3
Oxygen -> Sun	3	5				Television -> Adolescence (only to roll back)	3
Oxygen -> Disease	3	1.333333				Religion -> Human	3
Human -> Love	3 (2*)	7.5*				Old_age -> Death	3

Human -> Religion	3 (0*)	not available since no other hyperlinks were traversed before traversing Human -> Religion*				Water -> Sun	3
Human -> Clothing	3 (2*)	6*				Biology -> Health	2
Father -> Family	3	3.666667				Animal -> Organism	2
Plant -> Organism	3	3				Animal -> Nature	2
Plant -> Water	3	3.333333				Oxygen -> Disease	2
Nature -> Sun	3	6				Oxygen -> Heart	2
Nature -> Organism	3	6.333333				Human -> House	2
Nature -> Oxygen	3	6.666667				Human -> Religion	2
Nature -> Plant	3	6.333333				Father -> Family	2
Travel -> Water	3	7				Father -> Parent	2
Adolescence -> Television	3	7.333333				Plant -> Oxygen	2
Learning -> Teacher (only to roll back)	3	1.666667				Plant -> Water	2
Diet_ (nutrition) -> Death	3	12				Home -> Family	2
Sibling -> Parent	3	3.666667				Education -> Biology	2
War -> Disease	3	12.33333				Death -> Oxygen	2
Birth -> Animal	3	6				Nature -> Sun	2
Television -> Adolescence (only to roll back)	3	3.333333				Nature -> Organism	2
Religion -> Human	3	11.33333				Nature -> Animal	2
Old_age -> Death	3	4.333333				Nature -> Oxygen	2
Water -> Oxygen	3	3.333333				Nature -> Human	2
Water -> Plant	3	1				Family -> Father	2
Water -> Travel	3	2				Peace -> War	2
Automobile -> Oxygen	2	6				Sibling -> Family	2
Biology -> Plant	2	2.5				Sibling -> Parent	2
Biology -> Health	2	3				War -> Disease	2
Oxygen -> Automobile	2	2				House -> Home	2
Oxygen -> Heart	2	3.5				Health -> Diet_ (nutrition)	2
Human -> Oxygen	2 (1*)	7*				Clothing -> Religion	2
Human -> House	2 (1*)	3*				Light -> Television	2
Father -> Parent	2	5				Parent -> Father	2
Father -> Mother	2	4.5				Parent -> Child	2
Plant -> Biology	2	6				Leisure -> Education	2
Plant -> Animal	2	5				Leisure -> Sibling	2
Plant -> Oxygen	2	7				Water -> Biology	2
Home -> Family	2	4				Water -> Plant	2
Education -> Biology	2	3				Friendship -> Love	2
Death -> Oxygen	2	2.5				Mother -> Father	2
Tree -> Water	2	6				Biology -> Plant	1
Peace -> War	2	3				Human -> Animal	1
Sibling -> Family	2	4.5				Human -> Oxygen	1
House -> Home	2	15.5				Human -> Music	1
Religion -> Sun	2	9				Father -> Mother	1
Clothing -> Religion	2	8.5				Plant -> Biology	1
Light -> Television	2	8				Plant -> Animal	1
Parent -> Father	2	7				Education -> Sibling	1
Parent -> Child	2	5				Child -> Old_age	1
Parent -> Sibling	2	6				Child -> Leisure	1
Leisure -> Education	2	1				Travel -> Water	1
Leisure -> Sibling	2	6				Happiness -> Love	1

					(only to roll back)	
Water -> Biology	2	3.5			Teacher -> Education	1
Friendship -> Animal	2	5.5			Tree -> Water	1
Friendship -> Love	2	5.5			Food -> Human	1
Mother -> Father	2	5			Birth -> Death	1
Animal -> Oxygen	1	7			Birth -> Mother	1
Animal -> Water	1	7			Television -> Clothing (only to roll back)	1
Human -> Animal	1 (0*)	not available since no other hyperlinks were traversed before traversing Human -> Animal*			Television -> Light (only to roll back)	1
Human -> Music	1 (1*)	9*			Television -> Leisure (only to roll back)	1
Father -> Sibling	1	5			Health -> Food	1
Education -> Sibling	1	2			Religion -> Sun	1
Child -> Old_age	1	4			Clothing -> Television	1
Child -> Leisure	1	5			Old_age -> Adolescence	1
Teacher -> Education	1	2			Leisure -> Television	1
Diet_ (nutrition) -> Religion	1	4			Water -> Oxygen	1
Food -> Human	1	3			Water -> Travel	1
Disease -> Oxygen (only to roll back)	1	5			Mother -> Family	1
Birth -> Death	1	6				
Birth -> Mother	1	6				
Television -> Clothing (only to roll back)	1	2				
Television -> Light (only to roll back)	1	2				
Television -> Leisure (only to roll back)	1	5				
Health -> Food	1	4				
Clothing -> Television	1	15				
Parent -> Mother	1	7				
Old_age -> Adolescence	1	4				
Leisure -> Television	1	10				
Water -> Human	1	6				
Mother -> Family	1	3				

## Appendix N

This listing is based on listings of Table 3.9 and Appendix K to enable comparing the highest-ranking core relationships in concept maps drawn by students (n=103) and traversed hyperlinks of the Wikipedia in exploration paths of students (n=49), and to identify those relationships that exist in both listings, indicated with an asterisk (\*).

In columns 1-3 is a list of 145 core relationships that are in fact all those relationships between 102 core concepts extended with concept “brother” that are mentioned by at least two students in concept maps drawn by students (n=103), shown in descending order of occurrences in concept maps (based on Table 3.9). However to enable comparison with knowledge structures of the Wikipedia, each concept was transformed to the closest matching entry of Wikipedia articles



according to listing of Appendix F which also explains why Sibling is used to represent concept “brother”. Since relationships of concept maps do not have any specified linking direction, each pair of concepts are shown in alphabetical order.

In columns 4-6 is a list of highest-ranking traversed hyperlinks of the Wikipedia in exploration paths of students (n=49), shown for all students (based on Appendix K). Exploration experiment with students was carried out in “hyperlink network of 55 concepts” containing 212 hyperlinks connecting 55 concepts. The number of traversals for hyperlinks departing from Human (for example for Human -> Diet\_(nutrition) value 19) includes all those traversals that originate from the fact that in the experiment all exploration paths of students had to start always from concept Human, however in parenthesis (for example for Human -> Diet\_(nutrition) value 2) is shown the number of traversals when excluding hyperlinks departing from concept Human that were the student’s first traversed hyperlink in exploration path.

Hyperlinks supplied with notation “only to roll back” belong to 14 hyperlinks (shown in Appendix J) that supplement 212 hyperlinks of “hyperlink network of 55 concepts” and were traversed to roll back to previously visited concept when the student’s exploration had lead to a next concept that did not offer any outgoing hyperlinks for further exploration or if all outgoing hyperlinks had been already traversed once earlier during this same exploration.

In contrast with practice used often elsewhere in this publication, in Appendix N as well as in Table 9.1 and Table 9.2 if ranking is based on shared ranking positions we have decided to give to all representatives of this shared position the same ranking value which is a ranking value that would have been used next if there were not need for sharing the position (i.e. we now avoid using an average of all ranking values that would have been used if there were not need for sharing the position and skipping corresponding number of ranking values). We decided to use all ranking values even in case of shared ranking so that our analysis about overlap of listing of corresponding highest-ranking core relationships and highest-ranking traversed hyperlinks discussed in Chapter 9 could become more intuitive.

Conceptual network of concept maps drawn by students			Hyperlink network of the Wikipedia		
<i>Core relationships (i.e. relationships between 102 core concepts extended with concept “brother” that are mentioned by at least two students in concept maps drawn by students) shown so that each concept is transformed to the closest matching entry of Wikipedia article (relationships of concept maps do not have any specified linking direction, each pair of concepts are shown in alphabetical order) (n=103)</i>	<i>Number of occurrences so that at most one occurrence counted for each student</i>	<i>Ranking</i>	<i>Traversed hyperlinks of the Wikipedia in exploration paths of students (n=49)</i>	<i>Number of occurrences so that at most one occurrence counted for each student</i>	<i>Ranking</i>
Family≠Friendship	15	1	Happiness -> Emotion	29	1
* Birth≠Death	13	2s	* Emotion -> Love	26	2
* Family≠Love	13	2s	Joy -> Happiness	24	3s
Friendship≠School	10	3	* Disease -> Death	24	3s
* Family≠Home	9	4s	Happiness -> Joy	21	4
School≠Work	9	4s	Human -> Diet_(nutrition)	19 (2)	5s
* Animal≠Nature	8	5s	Emotion -> Experience	19	5s
* Friendship≠Love	8	5s	Experience -> Emotion (only to roll back)	18	6
* Child≠Family	7	6s	Organism -> Biology	17	7s
Death≠Living	7	6s	Adolescence -> Education	17	7s
* Family≠Father	7	6s	* Love -> Friendship	16	8
Family≠Living	7	6s	Education -> Learning	14	9s
Joy≠Sorrow	7	6s	Learning -> Education	14	9s
* Family≠Mother	6	7s	Emotion -> Happiness	14	9s
* Fathers≠Mother	6	7s	* Family -> Mother	13	10s
Food≠Water	6	7s	Diet_(nutrition) -> Health	13	10s

Friendship=Hobby	6	7s	* Health -> Disease	13	10s
Money=Work	6	7s	* Love -> Happiness	11	11s
Birth=Living	5	8s	Emotion -> Joy	11	11s
Education=Work	5	8s	* Love -> Emotion	10	12s
Living=Nature	5	8s	* Friendship -> Adolescence	10	12s
* Nature=Plant	5	8s	* Biology -> Nature	9	13s
* Plant=Tree	5	8s	Organism -> Plant	9	13s
Study=Work	5	8s	* Oxygen -> Water	9	13s
Animal=Dog	4	9s	Human -> Adolescence	9 (2)	13s
Atmosphere_of_Earth=Water	4	9s	* Human -> Family	9 (6)	13s
Cat=Dog	4	9s	Human -> Emotion	9 (3)	13s
Computer=Television	4	9s	Adolescence -> Child	9	13s
* Death=Disease	4	9s	Sun -> Plant	8	14s
Death=Health	4	9s	Organism -> Heart	8	14s
Family=Happiness	4	9s	Human -> Health	8 (3)	14s
* Family=Human	4	9s	Experience -> Learning (only to roll back)	8	14s
Friendship=Happiness	4	9s	* Death -> Disease	8	14s
Friendship=Human	4	9s	* Death -> War	8	14s
Friendship=Joy	4	9s	Learning -> Experience	8	14s
Home=Living	4	9s	* Love -> Family	8	14s
Human=Living	4	9s	War -> Peace	8	14s
* Human=Love	4	9s	Mother -> Parent	8	14s
* Human=Nature	4	9s	Biology -> Organism	7	15s
Living=Work	4	9s	Biology -> Animal	7	15s
Nature=Water	4	9s	Oxygen -> Plant	7	15s
Animal=Family	3	10s	Joy -> Emotion (only to roll back)	7	15s
Animal=Food	3	10s	* Plant -> Tree	7	15s
* Animal=Human	3	10s	* Sea -> Water	7	15s
* Biology=Nature	3	10s	* Family -> Sibling	7	15s
Birth=Health	3	10s	Sibling -> Love	7	15s
* Death=Human	3	10s	* Water -> Sea	7	15s
* Death=Old_age	3	10s	Sun -> Oxygen	6	16s
Death=Sorrow	3	10s	* Animal -> Human	6	16s
* Death=War	3	10s	* Animal -> Nature	6	16s
Dog=Family	3	10s	Human -> Happiness	6 (5)	16s
Dog=Pet	3	10s	* Plant -> Nature	6	16s
* Education=School	3	10s	Plant -> Light	6	16s
Family=House	3	10s	* School -> Education	6	16s
Family=Joy	3	10s	* Education -> School	6	16s
Family=Work	3	10s	Education -> Adolescence	6	16s
* Food=Health	3	10s	Education -> Leisure	6	16s
Food=Living	3	10s	Death -> Organism	6	16s
Friendship=Party	3	10s	* Death -> Human	6	16s
Ground=Water	3	10s	* Child -> Family	6	16s
* Happiness=Love	3	10s	Teacher -> Learning	6	16s
Hobby=Leisure	3	10s	* Family -> Child	6	16s
Hobby=School	3	10s	Peace -> Education	6	16s
* Home=House	3	10s	Diet_(nutrition) -> Organism	6	16s
Home=School	3	10s	Heart -> Organism (only to roll back)	6	16s
Home=Work	3	10s	* Mother -> Love	6	16s
Living=Religion	3	10s	Biology -> Human	5	17s
Living=School	3	10s	Human -> War	5 (3)	17s
Living=Water	3	10s	God -> Father	5	17s
* Nature=Sun	3	10s	Education -> Human	5	17s
School=Study	3	10s	Education -> Teacher	5	17s
* Adolescence=Friendship	2	11s	Death -> Heart	5	17s
Animal=Environment	2	11s	Child -> Adolescence	5	17s
Animal=God	2	11s	* Teacher -> School	5	17s
Animal=Tree	2	11s	Tree -> Oxygen	5	17s
Atmosphere_of_Earth=Ground	2	11s	Love -> Biology	5	17s
Automobile=Family	2	11s	Heart -> Death (only to roll back)	5	17s
Automobile=House	2	11s	Health -> Biology	5	17s
Birth=Child	2	11s	Work -> Leisure (only to roll back)	5	17s
Birth=Family	2	11s	Religion -> God	5	17s
Birth=Growing	2	11s	Light -> Sun	5	17s
Birth=Human	2	11s	Parent -> Human	5	17s
Birth=Nature	2	11s	Parent -> Birth	5	17s

Book=School	2	11s	Leisure -> Work	5	17s
Chair=House	2	11s	Animal -> Organism	4	18s
Child=Hospital	2	11s	Father -> Love	4	18s
Child=Human	2	11s	* School -> Teacher	4	18s
Clock=Computer	2	11s	Child -> Parent	4	18s
Clock=School	2	11s	* Nature -> Animal	4	18s
Clothing=Shoe	2	11s	* Nature -> Human	4	18s
Computer=Leisure	2	11s	Adolescence -> Old_age	4	18s
Death=Nature	2	11s	* Happiness -> Love	4	18s
Diet (nutrition)=Water	2	11s	* Family -> Father	4	18s
* Disease=Health	2	11s	Family -> Leisure	4	18s
Dream=Health	2	11s	War -> Religion	4	18s
Education=Living	2	11s	Health -> Diet (nutrition)	4	18s
* Emotion=Love	2	11s	Leisure -> Family	4	18s
Environment=Family	2	11s	Water -> Sun	4	18s
Environment=Nature	2	11s	Oxygen -> Sun	3	19s
Experience=Work	2	11s	Oxygen -> Disease	3	19s
Family=Health	2	11s	* Human -> Love	3 (2)	19s
Family=Hobby	2	11s	Human -> Religion	3 (0)	19s
Family=Money	2	11s	Human -> Clothing	3 (2)	19s
Family=Pet	2	11s	* Father -> Family	3	19s
* Family=Sibling	2	11s	Plant -> Organism	3	19s
Family=Study	2	11s	Plant -> Water	3	19s
Family=Telephone	2	11s	* Nature -> Sun	3	19s
Father=Home	2	11s	Nature -> Organism	3	19s
Food=Television	2	11s	Nature -> Oxygen	3	19s
Friendship=Leisure	2	11s	* Nature -> Plant	3	19s
Friendship=Living	2	11s	Travel -> Water	3	19s
Friendship=Pet	2	11s	Adolescence -> Television	3	19s
Friendship=Sibling	2	11s	Learning -> Teacher (only to roll back)	3	19s
Friendship=Study	2	11s	Diet (nutrition) -> Death	3	19s
Friendship=Work	2	11s	Sibling -> Parent	3	19s
God=Organism	2	11s	War -> Disease	3	19s
Ground=Nature	2	11s	Birth -> Animal	3	19s
Health=Light	2	11s	Television -> Adolescence (only to roll back)	3	19s
Health=Old_age	2	11s	Religion -> Human	3	19s
Health=Physical_fitness	2	11s	* Old_age -> Death	3	19s
Heart=Love	2	11s	* Water -> Oxygen	3	19s
Hobby=Work	2	11s	Water -> Plant	3	19s
Holiday=Party	2	11s	Water -> Travel	3	19s
Holiday=Work	2	11s	Automobile -> Oxygen	2	20s
Home=Mother	2	11s	Biology -> Plant	2	20s
House=Work	2	11s	Biology -> Health	2	20s
Joy=Living	2	11s	Oxygen -> Automobile	2	20s
Joy=Love	2	11s	Oxygen -> Heart	2	20s
Learning=Love	2	11s	Human -> Oxygen	2 (1)	20s
* Leisure=Television	2	11s	Human -> House	2 (1)	20s
Living=Music	2	11s	Father -> Parent	2	20s
Living=Organism	2	11s	* Father -> Mother	2	20s
Living=Peace	2	11s	Plant -> Biology	2	20s
Living=Purpose	2	11s	Plant -> Animal	2	20s
Living=Sorrow	2	11s	Plant -> Oxygen	2	20s
Living=Sun	2	11s	* Home -> Family	2	20s
Living=Travel	2	11s	Education -> Biology	2	20s
* Love=Mother	2	11s	Death -> Oxygen	2	20s
Love=Nature	2	11s	Tree -> Water	2	20s
Love=Parent	2	11s	Peace -> War	2	20s
Nature=Tree	2	11s	* Sibling -> Family	2	20s
* Oxygen=Water	2	11s	* House -> Home	2	20s
* School=Teacher	2	11s	Religion -> Sun	2	20s
* Sea=Water	2	11s	Clothing -> Religion	2	20s
Summer=Sun	2	11s	Light -> Television	2	20s
			Parent -> Father	2	20s
			Parent -> Child	2	20s
			Parent -> Sibling	2	20s
			Leisure -> Education	2	20s
			Leisure -> Sibling	2	20s
			Water -> Biology	2	20s
			Friendship -> Animal	2	20s

			* Friendship -> Love	2	20s
			* Mother -> Father	2	20s
			Animal -> Oxygen	1	21s
			Animal -> Water	1	21s
			* Human -> Animal	1 (0)	21s
			Human -> Music	1 (1)	21s
			Father -> Sibling	1	21s
			Education -> Sibling	1	21s
			Child -> Old age	1	21s
			Child -> Leisure	1	21s
			Teacher -> Education	1	21s
			Diet_(nutrition) -> Religion	1	21s
			Food -> Human	1	21s
			Disease -> Oxygen (only to roll back)	1	21s
			* Birth -> Death	1	21s
			Birth -> Mother	1	21s
			Television -> Clothing (only to roll back)	1	21s
			Television -> Light (only to roll back)	1	21s
			* Television -> Leisure (only to roll back)	1	21s
			* Health -> Food	1	21s
			Clothing -> Television	1	21s
			Parent -> Mother	1	21s
			Old_age -> Adolescence	1	21s
			* Leisure -> Television	1	21s
			Water -> Human	1	21s
			* Mother -> Family	1	21s

## Appendix R

This table shows heuristically approximated activity frequencies for four collaborator roles of Competing Values Framework in respect to 12 activities that we published in Table 2 of publication [P1] titled “Some approximated relative activity frequencies for each collaborator role”. Please note that in later additional experiments we empirically gained activity frequencies for these activities as show in Table 4.3 in Chapter 4 of current publication and we suggest giving specific attention to those empirically gained values.

<i>Activity</i>	<i>Create role</i>	<i>Compete role</i>	<i>Control role</i>	<i>Collaborate role</i>
Submits ideas	0.40	0.10	0.20	0.30
Adds nodes to concept map	0.40	0.30	0.10	0.20
Adds arcs to concept map	0.20	0.10	0.30	0.40
Makes references to ideas	0.30	0.10	0.40	0.20
Makes references to concept map	0.10	0.30	0.20	0.40
Comments ideas	0.10	0.20	0.40	0.30
Comments concept map	0.30	0.40	0.10	0.20
Sends coordination messages	0.10	0.40	0.20	0.30
Synthesizes ideas to concept map	0.20	0.10	0.40	0.30
Distributes topics from concept map to reconsideration	0.10	0.20	0.30	0.40
Explores accordance of ideas and concept map	0.40	0.30	0.20	0.10
Requests stimulation for creative thinking	0.10	0.40	0.30	0.20

## Appendix T

After publication of the publication [P1] we carried out empirical experiments of collaborative concept map construction process in small groups containing persons having ages in range of 15-18 years and representing four collaborator roles of Competing Values Framework ((Quinn et al. 1990, especially table 1.2 on page 21); (Quinn et al. 1996, especially table 1.2 on pages 23-24)). Before introducing collaborative concept map construction process to the student, we identified for each student which of four major collaborator roles (shown in Table 4.3 (originally published as Table 2 in publication [P1])) he represents by a questionnaire that is shown here in this Appendix T. Without revealing in advance what is the purpose of the questionnaire we asked the student to fill in this competing values self-assessment questionnaire that is adapted from Quinn et al. ((Quinn et al. 1990, especially table 1.2 on page 21); (Quinn et al. 1996, especially table 1.2 on pages 23-24)) and among the six sets of four questions corresponding to each four major collaborator roles the one which recieved highest number of points was selected as the role of the student for collaborative concept map construction process in small groups. In the questionnaire questions 1-6 concern having characteristics of innovator-broker role, then questions 7-12 producer-director role, next questions 13-18 coordinator-monitor role and finally then questions 19-24 facilitator-mentor role. We present here both English version and Finnish version of questionnaire that we used with students (Finnish version translated from English version by Lauri Lahti).

English version of questionnaire:

First name: \_\_\_\_\_ Last name: \_\_\_\_\_ Year of birth: \_\_\_\_\_

**All these questions ask about how you work as a member in a group.**  
**Please think about what is your role/position when working in a group of people.**  
 For example, think about how you feel/ behave when you have to work in a student group at school or when you are doing something together with your friends.

Here you have 24 statements. Please answer how much you agree or disagree with each statement.  
 Select one number (1, 2, 3, 4 or 5) that corresponds to your opinion:  
**1 = "I strongly AGREE", 2="I quite much AGREE", 3="Neutral opinion",**  
**4 ="I quite much DISAGREE", 5 = "I strongly DISAGREE"**

**"When I work as a member in a group..."** ☺ ☹

1) ...I am flexible to tolerate changes	1	2	3	4	5
2) ...I am actively thinking creatively.	1	2	3	4	5
3) ...I am active to create changes.	1	2	3	4	5
4) ...I am active in building and keeping power structures in the group.	1	2	3	4	5
5) ...I am active to negotiate (talk) to reach agreement and commitment.	1	2	3	4	5
6) ...I am actively presenting (telling) new ideas to other people.	1	2	3	4	5
7) ...I make big efforts to get people working productively.	1	2	3	4	5
8) ...I actively try to make working environment productive.	1	2	3	4	5
9) ...I am actively thinking how to use time well.	1	2	3	4	5
10) ...I am actively planning and setting goals (targets).	1	2	3	4	5
11) ...I am actively designing and organizing things.	1	2	3	4	5
12) ...I am efficient in delegating (sharing) work to other people.	1	2	3	4	5
13) ...I am actively thinking how people can best work together.	1	2	3	4	5
14) ...I am actively designing how work should be done.	1	2	3	4	5
15) ...I am actively thinking many different things that belong to current work.	1	2	3	4	5
16) ...I am actively giving attention to my personal performance in group.	1	2	3	4	5
17) ...I am actively giving attention to the performance of the whole group altogether.	1	2	3	4	5
18) ...I am actively giving attention to the performance of each individual person in the group.	1	2	3	4	5
19) ...I am actively building (forming) groups and teams.	1	2	3	4	5
20) ...I actively want to make decisions so that all people in group can agree.	1	2	3	4	5
21) ...I make big efforts to help people to avoid conflicts in group.	1	2	3	4	5
22) ...I actively understand well myself and other people.	1	2	3	4	5
23) ...I actively want to communicate effectively.	1	2	3	4	5
24) ...I actively want to give guidance to other people.	1	2	3	4	5



Finnish version of questionnaire:

Etunimi: \_\_\_\_\_ Sukunimi: \_\_\_\_\_ Syntymävuosi: \_\_\_\_\_

**Kaikki nämä kysymykset käsittelevät sitä, miten sinä työskentelet ryhmän jäsenenä. Ajattele, millainen rooli/asema sinulla on, kun työskentelet ihmisten muodostamassa ryhmässä.** Esimerkiksi ajattele, millaisia ovat tuntemuksesi/käyttäytymisesi, kun sinun täytyy työskennellä opiskelijaryhmässä koulussa tai kun olet tekemässä jotain yhdessä ystäväsi kanssa.

Tässä sinulla on 24 väittämää. Vastaa, kuinka paljon olet samaa tai eri mieltä kusta kin väittämästä. Valitse yksi numero (1, 2, 3, 4 tai 5), joka täsmää sinun mieli pitee seesi:  
**1 = "Olen vahvasti SAMAA mieltä", 2 = "Olen melko paljon SAMAA mieltä", 3 = "Neutraali mielipide", 4 = "Olen melko paljon ERI mieltä", 5 = "Olen vahvasti ERI mieltä"**

**"Kun työskentelet ryhmän jäsenenä, ..."**

	☺				☹
1) ...olen joustava sietämään muutoksia.	1	2	3	4	5
2) ...olen ahkera ajattelemaan luovasti.	1	2	3	4	5
3) ...olen ahkera luomaan muutoksia.	1	2	3	4	5
4) ...olen ahkera rakentamaan ja ylläpitämään valtarakenteita ryhmässä.	1	2	3	4	5
5) ...olen ahkera neuvottelemaan (puhumaan), jotta yhteisymmärrys ja omistautuminen voitaisiin saavuttaa.	1	2	3	4	5
6) ...olen ahkera esittelemään (kertomaan) uusia ajatuksia toisille ihmisille.	1	2	3	4	5
7) ...teen suuria ponnisteluja, jotta saisin ihmiset työskentelemään tuottavasti.	1	2	3	4	5
8) ...yrityn ahkerasti tehdä työskentely-ympäristöstä tuottavan.	1	2	3	4	5
9) ...ajattele ahkerasti, kuinka ajan voisi käyttää hyvin.	1	2	3	4	5
10) ...olen ahkera laatimaan aikatauluja ja asettamaan tavoitteita (päämääriä).	1	2	3	4	5
11) ...olen ahkera suunnittelemaan ja järjestämään asioita.	1	2	3	4	5
12) ...olen ahkera välittämään (jakamaan) työtä toisille ihmisille.	1	2	3	4	5
13) ...olen ahkera ajattelemaan, kuinka ihmiset voisivat parhaiten työskennellä yhdessä.	1	2	3	4	5
14) ...olen ahkera suunnittelemaan, miten työ pitäisi tehdä.	1	2	3	4	5
15) ...olen ahkera ajattelemaan useita eri asioita, jotka kuuluvat senhetkiseen työhön.	1	2	3	4	5
16) ...olen ahkera kiinnittämään huomiota henkilökohtaiseen suoritukseen ryhmässä.	1	2	3	4	5
17) ...olen ahkera kiinnittämään huomiota koko ryhmän suoritukseen yhdessä.	1	2	3	4	5
18) ...olen ahkera kiinnittämään huomiota jokaisen yksittäisen henkilön suoritukseen ryhmässä.	1	2	3	4	5
19) ...olen ahkera rakentamaan (muodostamaan) ryhmiä ja joukkueita.	1	2	3	4	5
20) ...haluan ahkerasti tehdä ratkaisuja niin, että kaikki ihmiset ryhmässä voivat olla samaa mieltä.	1	2	3	4	5
21) ...teen suuria ponnisteluja auttaakseni ihmisiä välttämään ristiriitoja ryhmässä.	1	2	3	4	5
22) ...olen ahkera ymmärtämään hyvin itseäni ja muita ihmisiä.	1	2	3	4	5
23) ...haluan ahkerasti viestiä tavalla, joka vaikuttaa.	1	2	3	4	5
24) ...haluan ahkerasti antaa opastusta toisille ihmisille.	1	2	3	4	5

## Supplement to publication P7

Supplement to publication P7 that was referenced to by the original publication.

**P7:** Lahti, Lauri (2012). Educational framework for adoption of vocabulary based on Wikipedia linkage and spaced learning. Proc. Global Learn 2012: Global Conference on Learning and Technology, online conference on 6 November 2012 (eds. Bastiaens, T., & Marks, G.), 8–13. Association for the Advancement of Computing in Education (AACE). ISBN 1-880094-99-1. <http://www.editlib.org/p/42033/>





## Supplement to Lauri Lahti's conference article "Educational framework for adoption of vocabulary based on Wikipedia linkage and spaced learning"

Lauri Lahti, 20121022 (updated in 2014)

### Scientific reference:

Please use following citation:

Lahti, L. (2012). Educational framework for adoption of vocabulary based on Wikipedia linkage and spaced learning. Proc. Global Learn 2012: Global Conference on Learning and Technology, online conference on 6 November 2012 (eds. Bastiaens, T., & Marks, G.), pp. 8-13. Association for the Advancement of Computing in Education (AACE). ISBN 1-880094-99-1.

<http://www.editlib.org/p/42033/>

Supplement data available at [http://www.cs.hut.fi/u/llahti/publ/lahti\\_2012a\\_data.pdf](http://www.cs.hut.fi/u/llahti/publ/lahti_2012a_data.pdf)

### Empirical experiment of experimentally generated ready-to-use pedagogic conceptual networks

(corresponding to analysis in Subchapter 11.2 and Appendixes AA–AD of Lauri Lahti's doctoral dissertation "Computer-assisted learning based on cumulative vocabularies, conceptual networks and Wikipedia linkage" (Lahti 2014))

The framework proposed in publication [7] relies on a process in which the learner traverses hyperlink network of Wikipedia along a route generated based on verified notion that spacing exposures and retention at optimal intervals can support adoption of concepts and knowledge. As a part of our research we have already experimentally generated a variety of ready-to-use pedagogic conceptual networks for selected learning topic vocabularies concerning many popular conceptual themes of knowledge used actively in everyday life and encountered often in educational setting addressing diverse combination of characteristics of learner.

Here we present a collection of experimentally generated ready-to-use pedagogic conceptual networks:

Trying to keep our analysis transparent and comparable for other research in this field we carried out further experiments with such vocabularies that are based on generally accepted recommendations about measuring a person's evolving language ability along consecutive stages of learning and empirically identified representative conceptual distributions for each of these stages.

To address these aims, we considered that *Common European Framework of Reference for Languages* (CEFRL) is useful since it offers guidelines about how to measure language ability with six progressive levels that have been supplied with illustrative descriptors created and scaled with Rasch modelling based on Swiss surveys in 1994–1995 covering 300 teachers and 2800 learners ((Council of Europe 2001); (North 1996/2000)). These six levels of language ability in increasing order of expertise have been labeled with names *A1 (Breakthrough)*, *A2 (Waystage)*, *B1 (Threshold)*, *B2 (Vantage)*, *C1 (Effective operational proficiency)* and *C2 (Mastery)*. First two levels have been classified to represent abilities of a basic user, two next ones abilities of an independent user and two last ones abilities of a proficient user.

While establishing CEFRL has enabled efforts to define vocabularies needed for each language ability levels that can be compared between various European languages large incompatibilities have been identified concerning the size of sufficient vocabularies for each language ability level and some *vocabulary sizes* have been suggested in the following ranges: 400–3300 words for level A1, 800–4000 words for level B1, 1100–6800 words for level B2 and 3300–30000 words for level C2 (Kusseling & Decoo 2010). Since defining cut-off points between language ability levels is a

subjective process it has been suggested that each level can be further divided hierarchically to sublevels with a branching approach that enables to address local needs while still maintain easy positioning in respect to commonly shared higher-level framework.

Level C2 (Mastery) has been defined so that it does not imply abilities of a native-speaker but instead such precision, appropriateness and ease with the language that typically belong to *highly successful learners*. Along formation of six levels of language ability of CEFRL some simple general task were identified in the Swiss surveys that were scaled below level A1 but can be defined as objectives for *beginners* of language learning, including making simple purchases, asking and telling time-related information, using basic greetings and expressions of politeness, filling easy forms with personal details and writing a simple postcard.

Working document of European Commission (European Commission 2012) mentions estimates made by non-profit assessment organisation Cambridge ESOL (meaning Cambridge English for Speakers of Other Languages) now known as *Cambridge English Language Assessment* (Cambridge English for Speakers of Other Languages (ESOL) / Cambridge English Language Assessment 2013) about how many *guided hours of learning* are required to reach the language ability levels A2-C2 of CEFRL including 180–200 hours for A2, 350–400 hours for B1, 500–600 hours for B2, 700–800 hours for C1 and 1000–1200 for C2.

Based on several hundred thousand examination scripts of *Cambridge Learner Corpus* and multi-billion word *Cambridge English Corpus* and sponsored by Council of Europe there has been an effort to define English vocabulary covering each of six language ability levels of CEFRL and this has been resulted in formation of *English Vocabulary Profile* that is a database aiming to represent all words and phrases learners know at each of six levels of CEFRL (Capel 2013). From online database of online English Vocabulary Profile ([http://vocabulary.englishprofile.org/dictionary//word-list/uk/a1\\_c2/A](http://vocabulary.englishprofile.org/dictionary//word-list/uk/a1_c2/A)) offered by Cambridge University Press we retrieved in June-July 2013 all words and phrases belonging to each of six language ability level ranging from A1 to C2. Thus we gained a series of *cumulative vocabularies* of six language ability levels of English Vocabulary Profile ranging from A1 to C2.

Since the six vocabularies gained from English Vocabulary Profile seemed to express such gradual evolution of a learner's vocabulary that are not clearly fixed to specific ages of the learner it seemed interesting to parallel English Vocabulary Profile to a resembling series of vocabularies that are fixed to specific age of the learner, especially in years of childhood and early youth. In this respect we considered that a useful resource is *Oxford Wordlist* that defines high-frequency wordlists for five consecutive strongly age-related categories of learners. Oxford Wordlist has been created based on writing samples collected in Australian schools in 2007 from about 1000 students of *three first school levels* (labeled somewhat confusingly as “Preparatory” (1891 samples), “Year 1” (951 samples) and “Year 2” (934 samples)) gaining over 160000 words (Lo Bianco et al. 2008) and in 2009 from 896 students of *fourth and fifth levels of school* (labeled again somewhat confusingly as “Year 3” (1437 samples) and “Year 4” (1251 samples)) gaining over 315000 words (Bayetto 2010). According to our understanding, the last four of these five school levels correspond approximately to ages ranging from 6- or 7-year-olds to 9- or 10-year-olds and Preparatory level corresponds to a bit younger ages.

From online database of Oxford Wordlist (<http://www.oxfordwordlist.com/pages/search.asp>) we retrieved in June-July 2013 all words belonging to high-frequency lists of each of five school levels ranging from Preparatory level to Year 4 level, when performing downloading the only

setting we varied was school year, thus keeping settings concerning gender, language, indigenouness, school setting, location and text type always at option “any”. In further analysis we consider that the series of high-frequency word lists of five school levels of Oxford Wordlist can sufficiently well represent a series of *partially cumulative vocabularies* of these five school levels and thus we refer to each of these high-frequency word lists with term vocabulary. Even if this our decision is somewhat coarse we considered it still sufficiently useful to enable to get some preliminary results when generating cumulative conceptual networks.

It appeared to us that the series of vocabularies in English Vocabulary Profile can reflect vocabulary needs belonging to English-for-secondary language having varying ages that largely represent already maturity and culturally diverse global backgrounds whereas series of vocabularies of Oxford Wordlist can reflect vocabulary needs belonging to specific age categories of childhood and early youth having culturally somewhat shared localized national context (i.e. Australia).

Table 11.2 shows the *amounts of words* we retrieved from online databases of both English Vocabulary Profile and Oxford Wordlist. To keep our new experimental setup sufficiently simple and to maintain comparability with our earlier experiments we decided to limit our further analysis concerning words retrieved from Oxford Wordlist and English Vocabulary Profile only to common nouns. The words of English Vocabulary Profile are inherently labeled with part-of-speech tags thus helping to extract only nouns. Since we did not have access to any part-of-speech classification concerning Oxford Wordlist (i.e. in available listings of Oxford Wordlist words were not labeled with part-of-speech tags) in further analysis we decided to contrast each of five high-frequency wordlists of Oxford Wordlist with full list of nouns extracted from vocabulary of range of language ability levels A1–C2 of English Vocabulary Profile. Thus if a word belonging to a high-frequency wordlist of Oxford Wordlist was found to exist also in a full list of nouns extracted from vocabulary C2 of English Vocabulary Profile then this word was considered as a noun also in this high-frequency wordlist of Oxford Wordlist. Even if this contrasting process possibly caused some concepts to be incorrectly accepted to be nouns in high-frequency wordlists of Oxford Wordlist we considered that this process was still sufficiently useful to enable to get some preliminary results. Please note that in following analysis the given exact values that we have computed based on vocabularies we retrieved from Oxford Wordlist and English Vocabulary Profile can contain unintentional small inaccuracies due to challenging computational process. Appendix AA shows all unique nouns we retrieved in June-July 2013 from cumulative vocabularies of English Vocabulary Profile for six language ability levels ranging from A1 to C2. Appendix AB shows all unique nouns in high-frequency lists we retrieved in June-July 2013 from Oxford Wordlist (nouns extracted based on co-occurrence among nouns of C2 vocabulary of English Vocabulary Profile) for five school levels ranging from Preparatory to Year 4.

**Table 11.2.** Properties of cumulative vocabularies of five language ability levels of Oxford Wordlist ranging from Preparatory to Year 4 and six language ability levels of English Vocabulary Profile ranging from A1 to C2.

Oxford Wordlist			English Vocabulary Profile		
School level	Unique words in high-frequency list	Unique nouns in high-frequency list (nouns extracted based on co-occurrence among nouns of C2 vocabulary of English Vocabulary Profile)	Range of language ability levels reached so far	Unique language items (words or phrases)	Unique nouns
Preparatory	1923	685	A1	785	305
Year 1	2364	811	A1–A2	2382	880
Year 2	3041	1008	A1–B1	5327	1761
Year 3	4808	1412	A1–B2	9502	2707
Year 4	4949	1445	A1–C1	11908	3198
			A1–C2	15715	3710

From Table 11.2 it can be seen that when a learner reaches the range of language ability levels A1–C2 of English Vocabulary Profile she is expected to know 15715 *unique language items*. Among these 15715 language items we identified 5853 *unique words or groups of words* supplied with a part-of-speech tag signifying adjective, adverb, conjunction, determiner, exclamation, noun, preposition or pronoun (some words or groups of words were supplied with more than one parallel part-of-speech tags). With a closer examination, among these 15715 language items belonging to range of language ability levels A1–C2 we identified 3710 *unique nouns*.

We generated *conceptual networks* relying on the hyperlink network of *the Wikipedia* (as of in June-July 2013) connecting collections of nouns having gradually increasing sizes as indicated in Table 11.2 for both Oxford Wordlist and English Vocabulary Profile. Please note that in contrast with earlier analysis largely relying on Wikipedia hyperlink network dating from the beginning of March 2008 we used in this further analysis Wikipedia hyperlink network dating from late June and early July 2013.

Concepts of consecutive ranges of language ability levels of English Vocabulary profile can be considered *cumulative* so that next ranges of language ability levels almost always (with very few exceptions) contain all concepts belonging to all previous ranges of language ability levels whereas consecutive vocabularies of Oxford Wordlist can be considered only *partially cumulative* since there is only partial overlap between consecutive vocabularies. These two different kinds of behavior affect also interpretation of Wikipedia hyperlinks connecting unique nouns in respect to both Oxford Wordlist and English Vocabulary Profile so that these hyperlinks can be considered cumulative for English Vocabulary Profile whereas hyperlinks can be considered only partially cumulative for Oxford Wordlist since there is only partial overlap.

However, it needs to be noted that, as show in Table 11.2, our analysis with collections of nouns having various sizes can be expected to represent indirectly *coverage of vocabulary* that is much larger than the number of nouns alone. Thus for example according to Oxford Wordlist a learner who has adopted already 1445 highest-ranking nouns of English (that can reflect vocabulary needs of school level “Year 4”) can be expected to have propably adopted at the same time already 4949 words altogether (i.e. these 4949 words containing words from also other word classes than just nouns) and according to English Vocabulary Profile a learner who has reached range of language ability levels A1–C2 can be expected to manage 3710 nouns but at the same time probably already 15715 language items altogether. We think that the range of vocabulary sizes we decided to

use in our analysis can sufficiently well approximate vocabulary level processes of learning and knowledge management in human mind since our vocabulary sizes quite well approach and at least partially reach the range of vocabulary sizes suggested in previous research as suitable for reasonable human understanding.

With our method educational material is presented to student with cumulative conceptual networks based on hyperlink network of Wikipedia connecting concepts of vocabulary about current learning topic. Personalization of educational material is carried out by alternating the *distribution of enabled hyperlinks* connecting concepts belonging to current vocabulary according to requirements of learning objective, learning context and learner's knowledge. So far our method accepts only nouns to vocabularies since hyperlinks in the Wikipedia are typically defined to connect nouns but also other part-of-speech could be possibly exploited with a resembling approach.

Thus for *life-long learning* an ultimate aim can be to reach a maximal coverage of the conceptual small-world networks representing all human knowledge and besides that even some personal contribution could be done to supplement this heritage of human knowledge through own writings and other forms of conveying new knowledge to the community (and possibly a scale-free version of small-world network being the most preferable). On the other hand, we think that all knowledge entities can be seen to consist of a complex collection of interconnected, overlapping and nested small-world networks so that each separate new learning topic can be considered to be learned as an own specific small-world network that becomes gradually more and more connected also to other small-world network structures held already so far in the mind of student.

When creating a hyperlink network of vocabulary based on hyperlink network of the Wikipedia we suggest extracting a *relation statement* for each hyperlink of Wikipedia from phrase surrounding hyperlink anchor of end concept in article text of start concept. For example for a hyperlink pointing from concept Music to concept Art one relation statement from article text of start concept Music is "Music is an art form whose medium is sound and silence." (here hyperlink anchor underlined). We suggest that during exploration in hyperlink network of vocabulary when student traverses a hyperlink between concepts learning of this relationship is supported by showing to the student a relation statement corresponding to this hyperlink. Eventually a *learning session* consists of a chain of traversed hyperlinks and their relation statements that can be guided to proceed in a sequential process having tailored variation and repetition computed based on theory of spaced learning, as explained in our previous work in publication [P7] and discussed in Subchapter 11.1.

To enable implementing educational technology for practical educational activities for students we have carried out empirical experiments to try to identify some constraints of *conceptual scale-free small-world networks* and to better understand behavior of their properties. Thus besides developing a computational method for exploiting conceptual scale-free small-world networks to manage and explore educational material we now also report some preliminary findings of experiments about the properties of conceptual scale-free small-world networks that we have generated based on hyperlink network of the Wikipedia connecting concepts of vocabulary about current learning topic.

Table 11.3 shows properties of *conceptual networks* that we have generated based on hyperlink network of the Wikipedia (as of June-July 2013) between concepts we retrieved from *English Vocabulary Profile* ([http://vocabulary.englishprofile.org/dictionary//word-list/uk/a1\\_c2/A](http://vocabulary.englishprofile.org/dictionary//word-list/uk/a1_c2/A)) for

cumulatively growing vocabularies corresponding to each of six language ability levels ranging from A1 to C2.

At the highest language ability level C2 we have the most extensive vocabulary that we call as vocabulary A1&A2&B1&B2&C1&C2 (i.e. including all six cumulative vocabularies of consecutive language ability levels A1, A2, B1, B2, C1 and C2 together) and we identified that it contains *15715 unique language items* (words or phrases) that include *3710 unique nouns*. Then we wanted to identify all possible hyperlinks that are connecting these 3710 unique nouns in hyperlink network of the Wikipedia and we found *25153 unique hyperlinks* so that they actually connected *2878 unique nouns* of these 3710 unique nouns. Appendix AC shows a full listing of all 25153 unique hyperlinks between 3710 unique nouns of vocabulary A1&A2&B1&B2&C1&C2 containing 2878 unique nouns. Appendix AD shows for each vocabulary ranging from A1 to A1&A2&B1&B2&C1&C2 unique nouns in unique Wikipedia hyperlinks connecting unique nouns in vocabulary so that nouns are listed separately for each language ability level. For each observed vocabulary ranging from A1 to A1&A2&B1&B2&C1&C2 a full listing of unique Wikipedia hyperlinks connecting unique nouns in vocabulary can be extracted from listing shown in Appendix AC by taking into consideration only those hyperlinks whose start concept and end concept belong to nouns of currently observed vocabulary among vocabularies ranging from A1 to A1&A2&B1&B2&C1&C2.

**Table 11.3.** Properties of conceptual networks generated based on hyperlink network of the Wikipedia between concepts for cumulative vocabularies of six language ability levels of English Vocabulary Profile ranging from A1 to C2.

Vocabulary of language ability level reached so far (predicted* = only extrapolated estimates)	Unique language items (words or phrases) in vocabulary	Unique nouns in vocabulary	Unique Wikipedia hyperlinks connecting unique nouns in vocabulary	Unique nouns in unique Wikipedia hyperlinks connecting unique nouns in vocabulary
A1	785	305	1007	248 (A1: 248)
A1&A2	2382	880	3868	706 (A1: 265; A2: 441)
A1&A2&B1	5327	1761	9566	1374 (A1: 273; A2: 465; B1: 636)
A1&A2&B1&B2	9502	2707	17448	2121 (A1: 280; A2: 473; B1: 682; B2: 686)
A1&A2&B1&B2&C1	11908	3198	21410	2470 (A1: 281; A2: 479; B1: 694; B2: 701; C1: 315)
A1&A2&B1&B2&C1&C2	15715	3710	25153	2878 (A1: 283; A2: 483; B1: 706; B2: 718; C1: 328; C2: 360)
3000–5000 unique nouns (reasonable 95 percent level comprehension), predicted*	12900–21500 *	3000–5000 *	20308–33846 *	2308–3846 *
8000–9000 unique nouns (non-native adult), predicted*	34400–38700 *	8000–9000 *	54154–60923 *	6154–6923 *
20000 unique nouns (native adult), predicted*	86000 *	20000 *	135385 *	15385 *
54000 unique nouns (general vocabulary), predicted*	232200 *	54000 *	365538 *	41538 *

**References:**

Lahti, L. (submitted 2014). Computer-assisted learning based on cumulative vocabularies, conceptual networks and Wikipedia linkage. Doctoral dissertation, Department of Computer Science, Aalto University, Finland.



## Appendix AA

As discussed in Subchapter 11.2, this listing shows unique nouns we retrieved in June-July 2013 from cumulative vocabularies of English Vocabulary Profile for six language ability levels ([http://vocabulary.englishprofile.org/dictionary//word-list/uk/a1\\_c2/A](http://vocabulary.englishprofile.org/dictionary//word-list/uk/a1_c2/A)): A1 (305 nouns), A2 (880 nouns), B1 (1761 nouns), B2 (2707 nouns), C1 (3198 nouns) and C2 (3710 nouns).

In contrast with Appendix AB, please note that concepts of consecutive ranges of language ability levels of English Vocabulary profile can be considered cumulative so that next ranges of language ability levels almost always (with very few exceptions) contain all concepts belonging to all previous ranges of language ability levels whereas consecutive vocabularies of Oxford Wordlist can be considered only partially cumulative since there is only partial overlap between consecutive vocabularies.

### *Language ability level A1 (305 nouns):*

address; adult; afternoon; age; animal; answer; apple; april; arm; august; baby; bag; ball; banana; band; bank; bar; basketball; bath; bathroom; beach; beard; bed; bedroom; beer; bird; birthday; biscuit; board; boat; body; book; bottom; box; boy; bread; breakfast; brother; bus; business; butter; café; cake; camera; car; cat; cd; cd player; chair; cheese; child; chip; chocolate; cinema; city; class; classroom; clock; clothes; coat; coffee; colour; computer; conversation; country; course; cow; credit card; cross; cup; dad; dance; dancing; date; daughter; day; december; desk; dictionary; dining room; dinner; doctor; dog; doll; dollar; door; dress; drink; driver; dvd; ear; egg; email; end; evening; example; eye; face; factory; family; farm; father; february; film; fish; flat; floor; flower; food; foot; football; friday; friend; fruit; fun; game; garden; girl; glass; glasses; grass; group; guitar; hair; hand; hat; head; holiday; home; homework; horse; hospital; hotel; hour; house; husband; ice cream; jacket; january; jeans; job; juice; july; june; key; kind; kitchen; knife; language; leg; lesson; letter; life; living room; lunch; man; march; may; meal; meat; message; milk; minute; miss; mobile; mobile phone; monday; money; month; morning; mother; mouth; movie; mr; mrs; mum; museum; music; name; nationality; newspaper; night; noise; nose; note; november; number; october; orange; page; paint; pair; paper; parent; park; part; party; pen; pencil; people; person; pet; phone; photo; picnic; picture; pig; pizza; place; plane; plant; plate; player; potato; problem; quarter; question; radio; rain; reading; restaurant; rice; river; road; room; salt; sandwich; saturday; school; sea; sentence; september; sheep; shirt; shoe; shop; shopping; shower; sister; skirt; smoking; snow; son; soup; sport; station; stop; street; student; subject; sugar; summer; sun; sunday; supermarket; swimming pool; table; taxi; tea; teacher; television; tennis; test; the internet; thing; thursday; ticket; time; today; toilet; tomato; tomorrow; tooth; town; train; tree; trousers; t-shirt; tuesday; tv; university; waiter; waitress; wall; watch; water; weather; website; wednesday; week; weekend; vegetable; wife; village; wind; window; wine; winter; woman; word; work; world; writing; year; zoo;

### *Language ability level A2 (880 nouns):*

accident; activity; actor; adjective; adventure; adverb; advertisement; advice; aeroplane; air; airport; alarm clock; album; alcohol; ambulance; apartment; appointment; area; armchair; art; artist; aunt; autumn; back; badminton; balloon; barbecue; baseball; bat; battery; bean; bear; beginner; beginning; belt; bicycle; bike; bill; biology; bit; black; blackboard; blanket; blood; blue; board game; bookcase; bookshelf; bookshop; boot; boss; bottle; bowl; boyfriend; brain; break; bridge; brown; brush; building; burger; bus station; bus stop; businessman; businesswoman; calendar; call; camping; can; cap; capital; capital letter; car park; card; carpet; carrot; cartoon; case; cash; castle; cathedral; ceiling; cent; centimetre; centre; century; cereal; chain; champagne; change; channel; chat; chef; chemist; chemistry; cheque; chess; chicken; chilli; church; cigarette; circle; classmate; cleaner; click; climbing; cloud; clown; club; coach; cola; cold; colleague; college; comb; comic; company; comparative; competition; concert; contact; cook; cooker; cooking; corner; cost; countryside; cousin; cream; cricket; crisp; crowd; cupboard; curry; curtain; customer; cycling; dancer; danger; degree; delay; dentist; department; department store; desert; dessert; diary; difference; digital camera; dinosaur; diploma; directions; disco; discount; dish; document; dr; drawer; drawing; dream; driving licence; drum; duck; earring; east; electricity; elephant; engine; engineer; entrance; envelope; euro; exam; examination; exercise; exit; fact; fan; farmer; fashion; fast food; field; file; finger; fire; first name; fishing; flight; fog; folder; footballer; forest; fork; form; fridge; furniture; garage; garlic; gas; gate; geography; gift; girlfriend; glove; goal; gold; golf; gram; grammar; grandchild; granddad; granddaughter; grandfather; grandma; grandmother; grandpa; grandparent; grandson; granny; grape; green; grey; guest; guide; guidebook; guy; hall; ham; handbag; headache; headteacher; health; heart; heating; helicopter; help; hill; hip-hop; history; hobby; hockey; honey; housewife; ice; id; id card; idea; identification; information; insect; instrument; invitation; island; it; jam; jazz; jewellery; journey; jumper; keyboard; kick; kid; kilo; kilogram; kilometre; king; kiss; kit; kite; lake; lamp; laptop; leather; left; lemon; lemonade; level; library; licence; lift; light; line; lion; list;

litre; luck; luggage; lunchtime; machine; magazine; magic; mail; main course; make-up; manager; mango; map; mark; market; match; maths; mechanic; medicine; meeting; melon; member; memory; menu; metre; midday; midnight; mineral water; mirror; mistake; model; moment; monkey; mosque; motorbike; motorway; mountain; mouse; mp3 player; ms; mug; mushroom; nature; neck; necklace; neighbour; news; noon; north; notebook; notice; noun; nurse; occupation; offer; office; oil; omelette; onion; opera; order; pain; painter; painting; partner; passenger; passport; pasta; path; pc; pear; pence; penfriend; pepper; perfume; petrol; petrol station; photograph; photographer; photography; physics; piano; piece; pillow; pilot; pink; plan; plastic; platform; play; playground; plural; pocket; police; police officer; police station; policeman; policewoman; pool; pop; post; post office; postcard; poster; pound; practice; present; price; printer; prize; program; programme; project; pub; pupil; purple; purse; puzzle; queen; quiz; rabbit; race; racket; railway; raincoat; rap; rat; reason; receipt; receptionist; red; rent; rest; right; ring; rock; roof; roundabout; rubber; rugby; ruler; runner; running; sailing; salad; salesperson; sauce; sausage; scarf; schoolchild; science; scissors; scooter; screen; seat; second; secretary; set; shampoo; shelf; ship; shop assistant; shorts; show; side; sightseeing; sign; silver; singer; singing; singular; sink; site; sitting room; size; skate; skateboard; skateboarding; skating; skiing; sky; slice; snack; snake; snowboarding; soap; sock; sofa; soft drink; software; song; sort; soul; sound; south; space; speaker; spelling; spoon; sports centre; spring; square; stadium; staff; stage; stairs; stamp; star; steak; stomach; stomach ache; storm; story; suit; suitcase; sunglasses; superlative; supper; surfing; surname; surprise; sweater; sweet; sweets; swim; swimming; swimming costume; table tennis; team; teenager; telephone; temperature; term; text; text message; textbook; theatre; thunderstorm; tie; tights; timetable; toast; toe; tonight; toothache; toothbrush; top; tour; tour guide; tourist; towel; toy; traffic; traffic light; trainer; tram; trip; tune; type; tyre; umbrella; uncle; uniform; use; walk; walking; wallet; war; wash; washing machine; washing-up; way; web page; weekday; verb; west; wheel; white; video; video game; view; winner; violin; visitor; vocabulary; volleyball; wood; wool; worker; yellow; yogurt;

*Language ability level B1 (1761 nouns):*

ability; accent; access; accommodation; account; accountant; ache; achievement; act; action; ad; admission; advantage; advert; agency; ages; aim; air conditioning; air force; airline; alarm; alphabet; ambition; amount; angel; animation; ankle; anniversary; announcement; ant; antique; apology; appearance; application; architect; architecture; argument; arrangement; arrival; article; aspirin; assistant; athlete; athletics; atmosphere; attack; attention; attitude; attraction; audience; author; average; babysitter; backache; background; backpack; backpacker; backpacking; bacon; baggage; baker; balcony; ballet; bandage; bank account; barber; barman; basin; basket; battle; bay; beauty; bee; beef; behaviour; bell; benefit; bin; biography; birth; block; blog; blogger; bomb; bone; booking; border; boxing; bracelet; brake; branch; breast; breath; breeze; bride; broccoli; brochure; bucket; bug; builder; bull; bunch; butcher; butterfly; button; buyer; cab; cabbage; cabin; cable; cage; calculator; calf; camel; camp; campsite; canal; cancer; candidate; candle; canteen; captain; care; career; cashpoint; cattle; cave; cd-rom; celebration; celebrity; central heating; ceremony; certificate; challenge; champion; championship; chance; chapter; character; charge; charity; chat show; check; check-in (counter); check-in (desk); checkout; cheek; chest of drawers; chewing gum; childhood; chin; choice; circus; cliff; climate; clinic; coast; coconut; cod; coin; collar; collection; comedy; comma; comment; common sense; communication; competitor; complaint; composition; conclusion; condition; conference; connection; consonant; contents; contest; continent; contract; copy; corn; correction; cottage; cotton; cough; count; couple; courgette; court; cover; crash; creature; credit; crew; crime; criminal; crop; crossing; cruise; cry; cucumber; culture; currency; curriculum; cushion; custom; customs; cut; cv; cyclist; damage; death; decision; decrease; defeat; defence; definite article; delivery; demand; departure; deposit; depth; description; design; designer; destination; detail; detective; development; diagram; diet; difficulty; direction; director; dirt; disadvantage; disappointment; disc; disc jockey; discussion; disease; dishwasher; disk; display; distance; district; diver; diving; divorce; dj; documentary; dolphin; donkey; dot; doubt; download; drama; drive; drop; dust; dustbin; duty; duvet; earache; earth; economics; edge; education; effect; effort; elbow; election; embassy; emergency; employee; employer; employment; ending; enemy; energy; engineering; enquiry; entertainment; entry; equipment; essay; event; examiner; exchange; exchange rate; excitement; excuse; exhibition; expedition; experience; experiment; expert; explanation; extra; extreme sports; facilities; fair; fall; fare; farming; favour; favourite; fear; fee; feeling; ferry; festival; fever; fiction; fifth; fight; figure; film-maker; final; fine; finish; fire station; firefighter; firework; firm; fitness; flag; flavour; flood; flour; flu; flute; fly; folk; fool; forecast; forehead; foreigner; fortnight; fountain; frame; freezer; friendship; frog; frying pan; fuel; full stop; fur; future; gallery; gap; generation; ghost; giraffe; go; goalkeeper; goat; goods; government; grade; grant; graphics; greeting; grill; groom; ground; guard; guess; guitarist; gun; gym; gymnastics; habit; haircut; hairdresser; hairdryer; handball; handkerchief; handwriting; happiness; harbour; hardware; headline; heart attack; heat; heater; heel; height; herb; hero; hit; hole; honeymoon; hope; hostel; housework; hug; human; hunger; hurry; hut; ice hockey; ice skating; identity card; illness; imagination; immigration; importance; improvement; inch; indefinite article; industry; infinitive; ingredient; initial; ink; inquiry; instructor; interest; interval; interview; invention; iron; ironing; issue; item; jail; jar; jet; jogging; joke; journalist; judge; jug; jump; jungle; kangaroo; keeper; kettle; killer; killing; kitten; knee; knickers; knowledge; lab; label; laboratory; ladder; lady; lamb; land; landscape; laugh; law; lawyer; leader; leaf; league; lecture;

leisure; length; lettuce; lie; lighter; lightning; limit; link; lip; liquid; literature; loan; location; lock; logo; look; lorry; lottery; love; lover; luxury; madam; mall; marriage; mate; material; maximum; meaning; membership; mess; message board; metal; method; mile; millimetre; mind; minimum; mix; modal (verb); monster; monument; mood; mosquito; moustache; murder; murderer; musician; mystery; neighbourhood; nephew; net; niece; nightclub; nightlife; nightmare; northeast; northwest; noticeboard; novel; object; occasion; ocean; officer; olive; operation; opinion; opportunity; opposite; option; orchestra; organization; oven; owner; packet; palace; pan; pants; paragraph; parcel; parking; parrot; pass; password; patient; pattern; pavement; pay; pea; peace; peach; peak; peanut; pedestrian; penguin; penny; performance; performer; period; permission; pharmacy; photocopy; phrasal verb; phrase; pie; pile; pill; pin; pineapple; pipe; pirate; planet; pleasure; plug; pocket money; poem; poet; poetry; point; politician; politics; pollution; population; pork; port; position; possibility; postman; pot; powder; power; prayer; preparation; preposition; prescription; presentation; president; priest; primary school; prince; princess; prison; prisoner; product; profession; professor; progress; promise; pronoun; pronunciation; property; public transport; pullover; pump; punctuation; puppy; purpose; push; qualification; quality; quantity; question mark; questionnaire; queue; rail; rainforest; range; reader; reception; recipe; record; recording; recycling; refreshments; refund; region; registration; relation; relationship; relative; relaxation; religion; remote control; repair; reply; report; reporter; request; rescue; research; reservation; resort; respect; result; return; reward; review; revision; ride; rider; robot; role; roll; romance; rose; route; routine; row; rubbish; rug; ruin; rule; run; sailor; salary; salesman; saleswoman; salmon; sand; sandal; saucepan; saucer; scene; scenery; science fiction; scientist; score; scream; sculpture; search; season; secondary school; secret; section; security; seller; sense; series; server; service; session; sex; shade; shadow; shape; shark; sheet; shock; shore; shoulder; shout; sight; signature; signpost; silence; silk; single; sir; situation; ski; skill; skin; sleep; sleeve; smell; smile; smoke; snowboard; soap opera; social networking; society; soldier; solution; southeast; southwest; souvenir; speech; speed; spice; spider; spinach; spot; spy; squash; stall; start; statue; stay; step; stick; stone; store; stranger; strawberry; stream; stress; strike; stripe; studio; study; stuff; style; success; suggestion; sum; sunrise; sunset; sunshine; support; supporter; sweatshirt; swimmer; switch; system; tablet; takeaway; talent; talk; tap; taste; tax; teaching; tear; technique; technology; temple; tense; tent; thank you; the first floor; the ground floor; the seaside; thief; thought; thriller; throat; thumb; thunder; tick; tiger; tin; tip; tissue; title; tongue; toothpaste; topic; total; tourism; tournament; tower; track; tracksuit; trade; traffic jam; training; translation; transport; travel; travel agent; traveller; trend; trick; trouble; truck; trumpet; tube; tuna; tunnel; turkey; turn; turning; twin; uncountable; underpants; unemployment; union; unit; user; wage; valley; value; van; wardrobe; variety; warning; vase; waste; waterfall; wave; weather forecast; web; webcam; wedding; vegetarian; vehicle; weight; welcome; vet; whale; wheelchair; video clip; wildlife; windscreen; windsurfing; wing; virus; visa; visit; voice; volume; workout; worry; worst; vote; vowel; writer; yard; yoga; youth; zone;

*Language ability level B2 (2707 nouns):*

absence; abuse; accuracy; acid; addict; addiction; addition; adjustment; admiration; adoption; advance; advertising; affair; affection; agent; agreement; agriculture; aircraft; alternative; aluminium; amazement; ambassador; amusement; analysis; analyst; ancestor; anger; anxiety; apostrophe; appeal; appreciation; approach; approval; arrest; arrow; aspect; assessment; assistance; association; astonishment; atom; attachment; attempt; aubergine; authority; availability; award; backup; badge; bakery; balance; ban; bang; banker; banking; bargain; barrier; base; basement; basis; beam; beat; belief; belongings; bench; bend; berry; bestseller; bikini; billion; bite; blade; blame; bomber; bombing; bond; bonus; booklet; bookmark; boost; bow; bra; bracket; brand; bravery; breakdown; breakthrough; breed; brick; broadband; brother-in-law; browser; bruise; budget; bulb; bullet; bumper; bun; burglar; burglary; bush; cabinet; calculation; campus; capacity; carbon; carbon dioxide; carbon footprint; carbon monoxide; cardboard; cardigan; carelessness; carnival; cast; catalogue; category; catering; cause; cell; cellar; cello; cemetery; centigrade; certainty; chaos; characteristic; charm; chart; chemical; cherry; chest; chief; chimney; choir; circumstance; citizen; civilization; claim; classic; clause; client; climate change; cloth; clothing; clue; coaching; code; coincidence; collapse; collector; collocation; colon; column; combination; comedian; comfort; command; commerce; commercial; commitment; committee; community; companion; comparison; composer; compromise; concentration; concept; concern; concrete; conductor; confession; confidence; confirmation; conflict; confusion; conjunction; consciousness; consequence; conservation; consideration; construction; consultant; consumer; container; content; context; contrast; contribution; control; convenience; cooperation; copper; corporation; corridor; costume; council; counter; county; courage; courtesy; coward; crab; craft; creation; creativity; crisis; critic; criticism; crocodile; crossroads; cruelty; cure; curiosity; cursor; curve; cycle; darkness; darling; dash; data; database; daughter-in-law; dawn; daylight; daytime; deadline; deal; dealer; debate; debit; debit card; debt; decade; deck; decline; decoration; deer; defender; definition; delight; democracy; demonstration; denim; depression; desire; desktop; despair; destruction; determination; determiner; device; devil; dialogue; diamond; dilemma; dimension; diplomat; disability; disagreement; disappearance; disaster; discipline; discovery; disgrace; disguise; dishonesty; dislike; disposal; dissatisfaction; distinction; dive; division; donation; dose; draft; drug; eagerness; eagle; earnings; earthquake; ease; economist; economy; edition; editor; efficiency; electrician; electronics; element; embarrassment; emotion; emphasis; encouragement;

enjoyment; entertainer; enthusiasm; environment; envy; episode; equal; equality; era; error; escalator;
 escape; estate; estimate; evidence; evil; evolution; exception; exclamation mark; exhaustion; existence;
 expansion; expectation; expense; explosion; export; expression; extension; extent; extract; eyebrow;
 eyelash; eyelid; eyesight; facility; factor; failure; faith; fame; fantasy; fat; fate; father-in-law; fault; feather;
 feature; feedback; female; fence; fighting; finance; fingernail; fire brigade; first language; fisherman; flame;
 flash; flexibility; fluency; force; fortune; fox; freedom; friendliness; frost; frustration; function; funeral;
 gambling; gang; gardener; gardening; gear; gender; generosity; genetics; gentleman; glance; global
 warming; god; good; gossip; graduate; graph; grave; greatness; grief; grip; grown-up; growth; guarantee;
 guidance; guilt; gum; guts; hammer; handle; handout; hard drive; harm; harmony; harvest; headquarters;
 heaven; hedge; hell; helmet; helper; highlight; hint; hip; hold; honesty; honour; hood; hook; horn; horror; host;
 household; human rights; humour; hunting; hyphen; icon; identity; idiom; idiot; image; immigrant; impact;
 imperative; impression; incident; income; increase; independence; individual; infection; inflation; influence;
 inhabitant; injury; input; inside; inspector; inspiration; institute; institution; insult; insurance; intelligence;
 intention; interior; interruption; introduction; invasion; inventor; inverted commas; investigation; investigator;
 investment; investor; involvement; jaw; jewel; journalism; joy; judgment; junk food; jury; justice; kindness;
 kingdom; landing; landlady; landlord; lane; lap; laser; laughter; laundry; layer; laziness; lead; leaflet; leak;
 learner; learning; lecturer; leek; legend; leopard; liar; liberty; lid; lifestyle; lifetime; lighting; litter; liver; living;
 load; loaf; lobby; loss; loyalty; lung; lyrics; maintenance; majority; maker; male; management; mankind;
 manner; manual; manufacturer; manufacturing; marathon; marketing; martial art; mask; master; matter;
 mayor; means; measure; measurement; medal; mention; microphone; mine; minister; minority; mint; miracle;
 misery; mission; mist; misunderstanding; mixture; monitor; moonlight; mother-in-law; motivation; motive;
 motor; motorist; movement; mud; muscle; musical; myth; nail; nation; native speaker; navy; need; needle;
 nerves; network; nonsense; novelist; nuisance; nursery; nut; oak; objection; objective; obligation;
 observation; obsession; offence; offender; opening; operator; opponent; organizer; origin; original; outline;
 outskirts; overtime; owl; oxygen; pace; pack; package; pancake; panic; paperwork; parachute; parade;
 parliament; partnership; passage; passion; patience; pause; paw; payment; pedal; penalty; pension;
 percentage; personality; pharmacist; phase; philosopher; philosophy; pine; pint; pitch; pity; planning; plot;
 plumber; plus; point of view; poison; polar bear; policy; politeness; pond; popularity; portion; portrait;
 possession; potential; pottery; poverty; prawn; prediction; preference; prefix; prejudice; presence; presenter;
 presidency; pressure; prevention; pride; prime minister; principal; priority; privacy; procedure; process;
 producer; production; professional; profile; profit; programming; promotion; proof; proper; proposal; prospect;
 protection; protest; psychologist; psychology; publication; publicity; publisher; pudding; punch; punishment;
 purchase; pyjamas; quarrel; query; quiet; racism; rage; rainbow; rape; rate; ray; razor; reach; reaction;
 reality; rebel; recession; recommendation; recovery; recreation; reduction; referee; reference; reflection;
 refugee; regret; regulation; rehearsal; release; relief; remains; remark; remedy; replacement; representative;
 reputation; requirement; researcher; reserve; resident; resource; response; responsibility; retirement;
 revenge; revolution; rhythm; rib; rise; risk; robbery; rocket; roommate; root; rope; rumour; rush; rush hour;
 sadness; safety; sale; salon; sample; satellite; satisfaction; savings; scale; scandal; scar; scent; schedule;
 scheme; scratch; script; seal; seed; selection; self-confidence; semicolon; semi-final; seminar; sensation;
 separation; servant; setting; share; shed; shell; shelter; shift; shooting; shopkeeper; shortage; shot; sickness;
 sigh; signal; similarity; sister-in-law; skeleton; slash; slave; slope; smoker; softness; soil; solo; son-in-law;
 soundtrack; source; specialist; species; spectator; spirit; splash; sponsor; spray; spread; spreadsheet; stain;
 standard; state; statement; statistics; steam; steel; steering wheel; stepfather; stepmother; stock; stool;
 stopover; storage; storey; strain; strategy; strength; string; stroke; structure; struggle; substance; substitute;
 suburb; subway; suffering; suffix; suicide; summary; sunlight; supplier; supply; surface; surgery;
 surroundings; survey; survival; survivor; suspect; suspicion; swan; sweat; swing; sword; syllable; symbol;
 sympathy; symptom; tabloid; tail; tale; tan; target; task; teaspoon; telecommunications; telescope; temper;
 temptation; tension; terminal; terms; terrace; territory; terror; terrorism; terrorist; thanks; the first person; the
 last minute; the second person; the third person; theft; theme; theory; therapy; thermometer; thesis; thigh;
 third; thirst; threat; tide; timing; tiredness; toenail; tomb; ton; tone; tool; torch; tornado; touch; trace; tradition;
 tragedy; trail; transfer; trap; tray; treasure; treatment; trekking; trial; triangle; tribe; trolley; trophy; trunk; trust;
 truth; try; tutor; understanding; unhappiness; upbringing; update; upgrade; waist; wait; ward; variation;
 warmth; wasp; weakness; wealth; weapon; welfare; venue; verse; version; wheat; whisky; whistle; victim;
 victory; widow; width; viewer; will; willingness; vinegar; violence; wire; virtual reality; wisdom; wish; vision;
 vitamin; witness; volcano; wolf; volunteer; worm; wound; voyage; wrist; x-ray; yacht; yell; zebra; zip;

*Language ability level C1 (3198 nouns):*

abortion; acceptance; accessory; accusation; acquaintance; adaptation; administration; administrator;
 adviser; agenda; aggression; aid; alert; allegation; allowance; ally; alteration; amateur; amendment; angle;
 annoyance; appetite; applause; appliance; archaeologist; archaeology; asset; assignment; assumption;
 assurance; attendance; auction; audition; awareness; avenue; bacteria; beak; bid; blindness; boundary;
 brass; bribe; bronze; bubble; bully; burden; campaign; cancellation; capability; capture; carriage;
 caution; cholesterol; chore; clarification; closeness; clutch; coal; collaboration; commodity; competence;

completion; complex; complication; component; congestion; consent; constitution; consumption; contestant; controversy; convention; coolness; corruption; counterpart; coverage; crawl; criterion; cultivation; cutback; daycare; debut; declaration; dedication; deduction; defect; deficiency; deficit; delegate; density; deodorant; deputy; destiny; developer; diesel; digestion; directory; disapproval; discomfort; discontent; discrimination; dismissal; disorder; displacement; disrespect; disruption; dissertation; distraction; distress; distribution; disturbance; diversity; divide; dock; domain; domination; downside; draught; drawback; dump; duration; ecology; effectiveness; elegance; elite; emission; emperor; empire; enterprise; environmentalist; equation; equivalent; erosion; establishment; evaluation; exaggeration; excess; executive; exhaust; exhibit; expenses; exploration; exposure; exterior; extinction; extrovert; fabric; fairness; fascination; feast; fibre; flair; flaw; fleet; flow; footstep; format; formula; foundation; friction; fright; fumes; fund; funding; fuss; gadget; gain; garment; gathering; gene; generalization; genius; geology; germ; gerund; gesture; giant; glamour; glimpse; globalization; glory; grace; greed; guideline; habitat; harassment; hardship; hate; hatred; hazard; heading; health care; historian; hospitality; housing; humanity; hunt; hygiene; iceberg; idol; illustration; implication; import; inability; inaccuracy; inclusion; inconvenience; index; indication; industrialization; infrastructure; initiative; injustice; innocence; innovation; insight; inspection; installation; instance; integration; interaction; interference; isolation; itinerary; jargon; jealousy; joint; journal; junk; junk mail; knob; labour; landmark; launch; lawn; layout; leadership; liability; liberation; limitation; listener; literacy; log; logic; loneliness; lounge; machinery; magistrate; mammal; mansion; mat; mechanism; memo; mentality; merit; migration; miner; mining; ministry; misfortune; misuse; mode; modification; move; mustard; nap; necessity; neglect; negotiation; nervousness; networking; newsletter; nickname; nomination; norm; notion; nutrition; obesity; obstacle; occurrence; odds; opposition; optimist; organ; outcome; outlook; overdraft; overview; ownership; ozone; palm; panel; paradise; participant; pastry; peasant; peer; pensioner; perfection; perk; permit; personnel; perspective; phenomenon; pony; posture; praise; precaution; predator; pregnancy; premises; preservation; prestige; principle; print; privilege; probability; productivity; programmer; progression; projection; proportion; proposition; prosperity; prostitute; protein; provider; provision; pulse; purity; pyramid; radiation; rank; rarity; rating; ratio; readership; readiness; realization; rebellion; reconstruction; recruitment; rectangle; redevelopment; redundancy; refusal; regard; register; reign; relevance; reliability; reminder; renewal; renovation; reproduction; reptile; republic; restriction; retail; revenue; richness; riot; rip-off; rival; role model; rudeness; runway; sack; sacrifice; saint; saving; scholar; scholarship; scope; sector; self; self-esteem; selfishness; sensitivity; sequence; serial; setback; settlement; sewing; shame; shortcoming; shuttle; shyness; side effect; significance; simplicity; simulation; sketch; slang; slavery; slogan; slot; smog; socialist; solicitor; solidarity; solitude; soya; spam; speciality; specification; spectrum; speculation; sphere; spine; spokesman; spokesperson; sponsorship; stability; staircase; stamina; stand; statistic; status; status symbol; stereotype; stock market; stocking; straw; stretch; striker; strip; stroll; subsidy; substitution; subtitles; successor; suitability; summit; superior; supervision; supervisor; surge; surgeon; tactic; takeover; tank; teamwork; technician; techno; telly; tendency; texture; the middle class; the upper class; the working class; therapist; thrill; tobacco; token; toll; torture; trainee; transaction; transformation; transportation; trek; triumph; tuition; turnover; twist; uncertainty; unity; unwillingness; usage; usefulness; vacancy; walker; variable; warrior; vegetation; veil; vein; well-being; vest; viewpoint; win; vine; wit; witch; workforce; workplace; workshop; worse; youngster;

*Language ability level C2 (3710 nouns):*

accumulation; acre; adolescent; advocate; alcoholic; alliance; allocation; ambiguity; analogy; anchor; antibiotic; anticipation; arch; army; artificial intelligence; aspiration; assault; assembly; astronomy; attribute; awe; backing; bark; barn; bet; bias; blackmail; blend; blister; blow; bribery; bundle; bureaucracy; burial; buzz; capitalism; cargo; casserole; casualty; catastrophe; chancellor; chapel; charisma; cheer; cheerfulness; chill; circuit; circulation; civilian; clarity; clash; classification; cliché; closure; clumsiness; coastline; coherence; coldness; combat; comeback; commander; complexion; complexity; compliment; conception; concession; confrontation; conscience; consensus; constraint; consultation; contempt; continuity; contraception; contraceptive; contradiction; conversion; conviction; cookie; coral; core; corpse; counselling; counsellor; coup; crack; crackdown; craving; craziness; credibility; creep; crush; crystal; custody; cutlery; decay; deception; delegation; denial; dependence; deprivation; descendant; desperation; deterrent; devastation; diagnosis; dialect; diarrhoea; dice; dignity; diplomacy; discretion; disgust; dismay; disposable income; disposition; dispute; dna; dominance; donor; doom; doorway; drain; drought; echo; elimination; embrace; empathy; endeavour; endurance; entity; essence; exile; expenditure; explosive; extremist; fake; famine; fanatic; feat; filter; fireplace; fist; flashback; flesh; fluid; focus; follower; forgery; forgiveness; formation; foul; founder; fraction; fragrance; framework; fraud; frenzy; fringe; frontier; frown; fulfilment; fury; gamble; gasp; gaze; glare; glow; glue; goodness; grain; grasp; grin; groan; grounds; gulf; hail; haul; heap; heir; heritage; hesitation; hierarchy; homelessness; horizon; hostage; hostility; humility; hypocrisy; hypothesis; ignorance; illusion; imitation; immune system; impatience; implementation; impossibility; imprisonment; impulse; incentive; inclination; indicator; indifference; individuality; inequality; infancy; infant; inferior; inferiority; influx; inheritance; inhibition; injection; insecurity; insomnia; instinct; instruction; integrity; intellect; intellectual; intensity; intent; interpretation; intervention; intolerance; introvert; intruder; intrusion; intuition; irony; irritation;

justification; kidney; knot; knuckle; lad; leap; leave; legacy; legislation; lifespan; likelihood; linen; loathing; local; loft; longevity; longing; lump; lure; margin; massacre; masterpiece; materialism; materialist; medication; mediocrity; medium; melody; memorial; mercy; merger; metaphor; millennium; mishap; misinterpretation; missile; momentum; monopoly; morale; mortality; motion; muddle; murmur; narrative; narrator; negligence; nerve; nest; normality; nostalgia; nostril; novelty; observer; odour; official; offspring; omission; openness; optimism; ordeal; orientation; ornament; orphan; outbreak; outgoings; outlet; output; outrage; overload; pact; paradigm; paradox; parallel; particle; pastime; patch; peer pressure; perception; perseverance; persistence; persuasion; pioneer; pit; plague; plea; plight; pole; portrayal; practitioner; precedent; predecessor; premium; presumption; prey; proceedings; procession; produce; propaganda; prosecution; prosecutor; protagonist; proverb; province; provocation; proximity; psychiatrist; pursuit; quest; quotation; quote; racist; radical; raid; rally; rash; read; realm; reasoning; reassurance; recognition; recollection; recruit; referendum; reform; refuge; regime; rejection; relish; remorse; repetition; representation; reproach; resemblance; resentment; residence; resignation; resilience; resistance; resolution; resolve; restraint; retailer; retention; retreat; reunion; revelation; reversal; reverse; revival; rhyme; ribbon; riches; ritual; rivalry; roar; round; ruling; saddle; sail; sanction; saying; scan; scarcity; scenario; schooling; scrap; scrutiny; self-assurance; self-awareness; self-control; self-discipline; self-reliance; self-respect; sensibility; sentiment; serenity; severity; shield; sibling; simplification; sin; sincerity; sip; siren; skull; slap; slaughter; snob; socialism; sorrow; spade; spark; specimen; spending; spite; splendour; spotlight; spouse; squad; stable; stance; standpoint; stardom; starvation; stimulus; stitch; strand; strap; stubbornness; stupidity; sufferer; superiority; supplement; surplus; suspense; sustainability; syllabus; synonym; tact; talks; taxpayer; tenant; tenderness; thinker; thread; threshold; throne; timber; toddler; tolerance; toughness; tractor; trader; trait; tranquility; transition; transmission; transplant; trash; trauma; treat; treaty; tribute; trilogy; trio; troops; turmoil; undertaking; unrest; upkeep; urge; vaccination; vaccine; validity; vandalism; vanity; warehouse; weed; velvet; venture; verdict; veteran; whim; vice; wilderness; villager; willpower; virgin; virtue; vitality; withdrawal; vocation; woodland; workaholic; worship; voter; vow; wreck; wreckage; wrinkle; xenophobia;

## Appendix AB

As discussed in Subchapter 11.2, this listing shows unique nouns in high-frequency lists we retrieved in June-July 2013 from Oxford Wordlist (nouns extracted based on co-occurrence among nouns of C2 vocabulary of English Vocabulary Profile) for five school levels (<http://www.oxfordwordlist.com/pages/search.asp>): Preparatory (685 nouns), Year 1 (811 nouns), Year 2 (1008 nouns), Year 3 (1412 nouns) and Year 4 (1445 nouns).

In contrast with Appendix AA, please note that concepts of consecutive ranges of language ability levels of English Vocabulary profile can be considered cumulative so that next ranges of language ability levels almost always (with very few exceptions) contain all concepts belonging to all previous ranges of language ability levels whereas consecutive vocabularies of Oxford Wordlist can be considered only partially cumulative since there is only partial overlap between consecutive vocabularies.

### *Preparatory (685 nouns):*

accident; adventure; aeroplane; afternoon; air; airport; ambulance; angel; animal; ant; apple; area; arm; army; art; august; baby; back; bacon; badge; bag; ball; ballet; balloon; banana; barbecue; bark; basket; basketball; bat; bath; battle; beach; bear; beat; bed; beginning; bend; bike; bird; birthday; biscuit; bit; bite; black; block; blood; blue; board; boat; bomb; bone; book; boss; bottle; bottom; bowl; box; boy; bra; branch; bread; breakfast; bride; bridge; brother; brush; bubble; builder; bump; bus; bush; butterfly; buzz; cabbage; cake; call; camera; camp; camping; can; candle; car; card; care; case; cash; castle; cat; cave; centre; cereal; certificate; chair; champion; change; channel; chart; check; cheer; cheese; cherry; chess; chicken; chief; child; chocolate; church; circus; city; class; classroom; climbing; clinic; clothes; cloud; clown; club; coast; cold; colour; competition; computer; concert; cookie; corner; costume; country; couple; court; cousin; cover; crab; crash; crew; cricket; crocodile; cross; crowd; cup; cushion; cut; dad; dance; dancing; dash; day; december; delivery; dentist; desert; desk; dessert; devil; diary; dinner; dinosaur; disco; diving; doctor; dog; doll; dollar; dolphin; door; drawing; dream; dress; drink; drive; drop; duck; dust; dvd; eagle; ear; earth; egg; electricity; elephant; end; engine; evening; face; factory; fair; family; farm; farmer; fat; favourite; feeling; fence; ferry; festival; fight; fighting; final; fine; finger; finish; fire; fish; fishing; flame; flat; floor; flower; flute; fly; food; foot; football; fork; fox; frame; friday; fridge; friend; frog; fruit; fun; game; garage; garden; gardening; gas; gear; ghost; giraffe; girl; glow; glove; go; goal; gold; golf; good; grandma; grass; green; grey; ground; guitar; gum; gun; guy; gymnastics; hair; hall; ham; hand; handball; hat; hate; head; headache; heart; heaven; helicopter; helmet; help; hero; hill; hip; history; hit; hockey; hold; hole; holiday; home; homework; honey; hood; hope; horn; horse; hospital; hotel; house; hunt; hunting; hurry; idea; ink; inside; instrument; island; it; jacket; jail; jam; jazz; jeans; jet; job; juice; jump; june; jungle; kangaroo; kick; kid; killer; killing; kind; king; kingdom; kitchen; kite; kitten; ladder; lake; land; language; left; leg; lemon; leopard; lesson; letter; lettuce; level; library; light; lighter; lightning; line; lion; list; look; lounge; love; lunch; machine; magazine; magic; mall; man; market; mat; match; mate; maths; meal; meat; medal; medicine; metal; milk; mind; mine; miss; model; monday; monkey; monster; morning; mother; motorbike; mouse; move; movie; mr; mrs; mud; mug; mum; museum; music; musical; name; nap; neck; need; net; news; newspaper; night; noise; nose; number; ocean; office; officer; orange; orchestra; order; owner; pack; packet; paint; pair; palace; pancake; pants; paper; parade; parent; park; part; partner; party; pasta; patch; path; peace; pear; pencil; penguin; people; person; pet; phone; photo; picnic; picture; pie; piece; pig; pillow; pin; pineapple; pink; pirate; pit; pizza; place; plan; plane; planet; plant; plate; play; player; playground; poison; pole; police; policeman; pond; pony; pool; power; present; prince; princess; prize; professor; project; pub; puppy; purple; push; queen; question; rabbit; race; radio; rain; rainbow; read; reading; record; rectangle; red; reptile; rescue; restaurant; reward; rice; ride; right; ring; river; road; roar; robot; rock; rocket; roll; roof; room; rubbish; ruler; run; runner; running; sack; safety; salad; sale; sand; sandwich; saturday; sauce; sausage; saying; school; science; scooter; score; sea; second; secret; section; set; share; shark; shed; sheep; ship; shirt; shoe; shop; shopping; shot; show; shower; side; singing; sink; siren; sister; size; skate; skateboard; skateboarding; skating; skeleton; ski; skiing; sky; sleep; snake; snow; song; sort; sound; soup; space; speed; spelling; spider; sport; spot; spring; stage; stairs; stand; star; start; station; stay; stone; stop; store; storey; storm; story; stranger; street; stretch; study; stuff; sugar; summer; sun; sunday; sweet; swim; swimming; swing; sword; system; table; tail; tale; talk; tan; tap; tea; teacher; team; television; temple; tennis; tent; thanks; theatre; thing; thought; thumb; thunder; thursday; ticket; tie; tiger; timber; time; timetable; today; toe; toilet; tomato; tomorrow; tonight; tooth; top; torch; town; toy; tractor; traffic; trail; train; training; trap; travel; treasure; tree; triangle; trick; trip; trophy; trouble; truck; tuesday; turn; turning; tv; twist; type; umbrella; uncle; use; walk; walking; wall; war; wash; watch; water; waterfall; wave; way; wedding; wednesday; week; weekend; vest; west; vet; whale; wheel; whistle; white;

video; will; village; win; wind; window; winner; winter; wish; visit; visitor; witch; voice; volcano; wolf; woman; wood; work; world; worm; wreck; writing; yard; year; yellow; zebra; zoo;

*Year 1 (811 nouns):*

adult; adventure; aeroplane; afternoon; ambulance; animal; answer; apple; arm; army; arrest; art; assembly; athletics; attack; baby; back; background; bacon; bag; ball; ballet; balloon; band; bang; bank; bar; barbecue; barn; base; baseball; basket; basketball; bat; bath; battle; beach; bear; beat; bed; bedroom; bee; beef; beginning; bell; bend; bike; bin; bird; birthday; biscuit; bit; black; blanket; block; blood; blow; blue; boat; body; bonus; book; boss; bottle; bottom; box; boxing; boy; brand; bread; break; breakfast; brother; brown; brush; bubble; bucket; bug; builder; building; bull; bunch; burger; bus; bush; business; butter; butterfly; button; buzz; cabin; cage; cake; call; camel; camping; can; candle; cap; car; card; cardboard; care; carpet; cash; cast; castle; cat; cave; centre; century; cereal; chain; chair; change; chaos; cheese; chemist; chess; chest; chicken; child; chin; chip; chocolate; church; circle; circus; city; class; classroom; climbing; clothes; clown; club; coach; coffee; coin; cold; collar; collection; colour; commercial; competition; complex; computer; concert; contest; cook; cookie; cooking; coral; corner; cost; cottage; cotton; council; count; couple; course; court; cousin; cow; cover; crash; crawl; cream; creature; cricket; crime; criminal; crocodile; cross; crossing; cruise; cry; cucumber; cup; cupboard; cut; cycle; dad; dance; dancer; dancing; danger; darling; day; december; dentist; desert; designer; desk; devil; diamond; diet; dinner; dinosaur; directions; dirt; disco; dive; diving; dock; doctor; dog; doll; dollar; dolphin; donkey; door; dot; drawing; dream; dress; drink; drive; driver; drop; duck; dump; dvd; earth; egg; elephant; emergency; end; ending; engine; eye; face; fact; factory; fake; fall; family; fan; farm; farmer; fashion; fat; father; favourite; field; fifth; fight; fighting; final; fine; finish; fire; fish; fishing; flag; flash; flat; flavour; floor; flower; fly; fog; food; foot; football; forest; fox; frame; friday; friend; frog; fruit; fun; fur; game; garage; garden; gardening; gate; gear; gentleman; ghost; giant; gift; giraffe; girl; glass; glasses; go; goal; goat; god; gold; golf; good; grade; grandma; grandmother; grass; green; grey; ground; group; guess; guitar; gum; gun; guy; gym; gymnastics; hair; haircut; hall; hammer; hand; handle; hat; head; headache; heart; heaven; helicopter; help; hero; hill; hit; hold; hole; holiday; home; homework; honey; honeymoon; honour; hook; hope; horse; hospital; hotel; hour; house; hug; hunting; iceberg; idea; information; inside; instructor; interview; invitation; island; it; jacket; jail; january; jar; jealousy; job; joke; joy; jump; jumper; june; jungle; kangaroo; key; keyboard; kick; kid; killer; killing; kind; king; kiss; kit; kitten; knife; lab; lady; lake; land; lane; lap; laptop; lawn; leader; leaf; leap; learning; leave; left; leg; lemon; leopard; letter; lettuce; level; library; life; light; lightning; line; lion; lip; living; look; lounge; love; lover; lunch; lunchtime; machine; magic; maker; man; march; market; marriage; mask; master; mat; match; mate; maths; matter; meal; means; meat; medal; medicine; memory; mess; message; metal; microphone; midnight; milk; mine; minute; miss; mistake; monday; money; monkey; monster; morning; mosquito; mother; motor; motorbike; mountain; mouse; moustache; mouth; move; movie; mr; mrs; ms; mud; mum; murder; murderer; mushroom; music; musical; name; narrative; nature; neck; need; neighbour; nest; net; night; noise; note; notice; november; number; ocean; opening; orange; oven; owl; owner; packet; paint; painting; pair; palace; pan; pants; paper; parcel; parent; park; part; party; pass; pastry; patch; pay; pen; pencil; penguin; people; performance; person; pet; phone; photographer; picnic; picture; piece; pig; pile; pink; pipe; pirate; pizza; place; plan; plane; planet; plate; play; player; playground; pocket; point; poison; pole; police; pond; pony; pool; pop; port; post; postman; potato; pound; power; practice; prawn; present; prince; princess; principal; print; printer; prize; problem; proper; pub; puppy; purple; push; pyjamas; quarter; queen; quiet; rabbit; race; rain; rainbow; rainforest; rat; reach; read; reading; reason; recycling; red; register; rescue; rest; restaurant; ride; right; ring; river; road; robot; rock; rocket; roll; roof; room; rope; rose; round; row; rule; run; running; safety; sail; salad; sale; sand; sandwich; saturday; sauce; school; science; scooter; score; scream; screen; sea; season; seat; second; secret; september; session; set; sewing; shadow; shape; share; shark; shed; sheep; sheet; shell; ship; shooting; shop; shopping; shot; shout; show; shower; side; silver; singer; singing; single; sink; siren; sister; size; skateboard; skeleton; ski; skiing; skull; sky; sleep; snack; snake; snow; snowboarding; son; song; sound; soup; space; speed; spider; sport; spot; spread; stadium; staff; stage; stairs; stand; star; start; stay; step; stick; stop; storm; story; strawberry; street; stretch; strike; stuff; sugar; suitcase; summer; sun; sunday; surprise; sweat; swim; swimmer; swimming; swing; sword; table; tail; takeaway; talk; tank; tap; target; taste; tea; teacher; teaching; team; tennis; tent; test; thanks; thief; thing; third; thought; thunder; thursday; tiger; time; toast; today; toilet; tomato; tomorrow; tonight; tool; tooth; toothbrush; top; touch; tour; towel; tower; town; toy; track; tractor; train; training; tram; travel; tray; treasure; tree; trick; trophy; trouble; truck; try; tube; tuesday; tunnel; turkey; turn; turning; tv; type; uncle; use; wait; walk; walker; walking; wall; van; war; warehouse; wash; waste; watch; water; way; wedding; wednesday; week; weekend; vegetable; version; whale; wheel; whistle; white; wife; wildlife; will; village; win; window; wing; winter; wish; visit; witch; voice; wolf; volleyball; woman; wood; wool; word; work; worker; workshop; world; worst; writing; yard; year; yellow; zoo;

*Year 2 (1008 nouns):*

ad; adult; adventure; aeroplane; afternoon; age; ages; air; airport; alarm; ambulance; animal; ant; apple; argument; arm; army; art; attack; august; baby; back; bacon; badge; bag; ball; balloon; banana; band; bang;



barbecue; bark; barn; base; basketball; bat; bath; bathroom; battery; battle; bay; beach; beak; bear; beard; beat; bed; bedroom; bee; beer; bell; bench; bike; billion; bin; bird; birthday; biscuit; bit; bite; black; blanket; block; blood; blow; blue; board; boat; body; bomb; bone; book; boost; boot; border; boss; bottle; bottom; bow; bowl; box; boy; boyfriend; bracelet; brain; bread; break; breakfast; breath; breed; bridge; brother; brown; brush; bubble; bucket; bug; building; bull; bump; bunch; bus; bush; business; butter; butterfly; buzz; cabbage; cabinet; cage; cake; calculator; calf; call; camel; camera; camp; camping; can; cancer; candle; canteen; cap; captain; capture; car; card; care; carnival; carpet; carrot; cartoon; case; cash; cast; castle; cat; cave; cemetery; centre; chain; chair; challenge; chance; change; channel; chapter; chat; check; cheer; chef; chess; chest; chicken; chimney; chip; chocolate; choice; church; cinema; circle; city; class; classroom; cleaner; climbing; clock; clothes; cloud; clown; club; coach; code; coffee; cold; collar; collection; collector; college; colour; community; competition; computer; contact; container; contest; continent; control; cook; cookie; cooking; cooperation; coral; corner; cost; cottage; cough; count; counter; country; couple; course; court; cousin; cow; cover; crab; craft; crash; cream; creature; credit; crew; cricket; crime; crocodile; cross; cruise; cry; crystal; culture; cup; cupboard; curriculum; customer; cut; cutlery; dad; dance; dancing; darling; daughter; day; death; december; decision; deck; deer; defeat; desert; desk; dessert; devil; diamond; diary; dice; diesel; diet; dimension; dinner; dinosaur; direction; directions; disco; disease; distance; diver; diving; doctor; dog; doll; dolphin; donkey; door; download; dr; drawer; drawing; dream; dress; drink; drive; driver; drop; drought; duck; dvd; eagle; earth; edge; egg; elephant; end; enemy; engine; episode; escape; evening; event; evil; exercise; exhaust; extra; eye; face; factory; fair; fall; family; fan; fantasy; farm; farmer; fat; favourite; feeling; fence; ferry; field; fight; fighting; final; fine; fire; fireplace; fish; fishing; fitness; flame; flash; flat; flight; flood; floor; flour; fluid; fly; food; foot; football; force; forest; form; fox; frame; freezer; friday; fridge; friend; fright; frog; frost; fruit; fuel; fun; funeral; fur; furniture; future; gain; game; gang; gap; garage; garden; gardening; gate; gear; gentleman; ghost; giant; gift; giraffe; girl; girlfriend; glass; glasses; glow; glue; go; goal; god; gold; golf; good; grade; grandfather; grandma; grandpa; grass; grave; green; grey; ground; group; guard; guess; guitar; gun; guts; guy; gymnastics; hair; haircut; ham; hand; handball; handle; harm; hat; hate; head; headache; heading; heart; heat; help; hero; hill; hip; history; hit; hobby; hockey; hold; hole; holiday; home; homework; honey; hook; hope; horn; horse; hospital; hotel; hour; house; hug; human; hunt; hunting; husband; hut; ice; idea; imagination; inch; insect; inside; instructor; interaction; island; it; jacket; jail; jam; jet; jewellery; job; joke; journey; joy; judge; jug; juice; jump; jumper; jungle; junk; kangaroo; kettle; key; kick; kid; killing; kilometre; kind; king; kiss; kitchen; kite; kitten; knife; knob; lab; laboratory; ladder; lady; lake; lamb; lamp; land; laser; laugh; lawn; lead; leader; leaf; leak; leave; left; leg; legend; lemon; lemonade; length; leopard; lesson; letter; level; library; lie; life; light; lightning; line; lion; living; loaf; local; log; look; lounge; love; lunch; lunchtime; machine; machinery; magic; mail; man; mango; march; mark; market; mask; master; match; maths; matter; may; meal; means; meat; mechanic; medal; medicine; medium; member; mention; menu; mercy; mess; message; metal; metre; microphone; midnight; milk; mind; mine; mint; miracle; mirror; miss; missile; mode; model; moment; monday; money; monkey; monster; month; morning; mother; motor; motorbike; mouse; mouth; move; movement; movie; mr; mrs; mud; mug; mum; museum; mushroom; music; musical; mystery; name; nap; neck; necklace; need; neighbour; net; news; newspaper; night; noise; nose; november; number; obstacle; ocean; october; opening; opera; opposite; orange; organ; oven; owl; owner; pack; packet; pain; paint; painting; pair; palace; palm; pan; pancake; pants; paper; parade; paragraph; parcel; parent; park; parrot; part; partner; party; pass; pasta; patch; path; paw; peace; pen; pencil; penguin; people; pepper; person; pet; petrol; phone; photo; piano; picture; pie; piece; pig; pile; pillow; pink; pipe; pirate; pit; pizza; place; plan; plane; planet; planning; plant; play; player; playground; plot; point; pole; police; pond; pony; pool; pop; pork; port; pot; potato; pound; power; practice; prawn; present; presentation; president; prince; princess; principal; prize; problem; professor; promise; punch; puppy; purple; push; quarter; queen; quiet; rabbit; race; radio; rain; rainbow; rat; razor; read; reading; record; red; rescue; research; rest; restaurant; reward; rice; ride; rider; right; ring; river; road; roar; robot; rock; rocket; roll; roof; room; rope; round; roundabout; rubber; run; running; sack; salad; salt; sand; sandwich; saturday; sausage; saying; scarf; school; science; scooter; score; scratch; screen; sea; seal; search; seat; second; secret; section; seed; self; sentence; september; set; shape; share; shark; shed; sheep; sheet; shelf; shelter; ship; shoe; shooting; shop; shopkeeper; shopping; shore; shorts; shot; shoulder; show; shower; shuttle; side; sight; sign; silver; singing; sip; sir; siren; sister; skate; skeleton; skin; skirt; sky; sleep; slice; smoke; snack; snake; snow; soldier; solution; son; song; sound; soup; south; space; speed; spelling; spider; spinach; spirit; splash; spoon; spotlight; spray; spread; spring; spy; square; stable; stadium; stage; staircase; stairs; stamp; stand; star; start; state; station; stay; step; stick; stomach; stool; stop; store; storey; storm; story; straw; strawberry; street; string; student; stuff; style; subject; suit; summer; sun; sunday; surprise; survival; sweets; swim; swimming; swing; symbol; table; tail; talent; talk; tank; tap; taxi; tea; teacher; teaching; team; teaspoon; teenager; temper; tent; test; text; thanks; thermometer; thing; third; thought; thunderstorm; thursday; tie; tiger; timber; time; tin; toast; today; toe; toilet; tomorrow; tongue; tonight; tooth; toothbrush; top; topic; torch; touch; towel; tower; town; toy; track; tracksuit; tractor; train; trainer; training; tram; trap; treasure; tree; triangle; trick; trip; trophy; trouble; truck; trunk; truth; try; tuesday; tunnel; turkey; turn; turning; tv; type; tyre; uncle; uniform; unit; university; upgrade; use; wait; walk; walking; wall; valley; war; wardrobe; warrior; wash; wasp; waste; watch; water; waterfall; wave; way; web; website; wedding; wednesday; weed; week; weekend;

veil; west; whale; wheel; whistle; white; victim; video; wife; will; village; win; wind; window; wing; winner; winter; wish; visit; witch; voice; volcano; wolf; woman; wood; wool; word; work; world; worry; worst; wrist; writing; yacht; yard; year; yellow; zebra; zone; zoo;

*Year 3 (1412 nouns):*

account; accuracy; ache; act; action; activity; actor; ad; addition; address; adult; adventure; advice; aeroplane; afternoon; age; agent; ages; air; airport; alarm; album; alcohol; allowance; alphabet; angel; angle; animal; ankle; announcement; answer; ant; apartment; apple; area; arm; army; arrest; art; artist; assistant; attack; attention; audience; august; aunt; author; autumn; award; baby; back; backing; backpack; bacon; bag; bakery; balcony; ball; ballet; balloon; banana; band; bandage; bang; bank; bar; barbecue; barber; bark; barrier; base; baseball; basement; basket; basketball; bat; bath; bathroom; battery; battle; bay; beach; beam; bean; bear; beat; beauty; bed; bedroom; bee; beef; beer; beginning; behaviour; bell; belt; bench; berry; bet; bicycle; bike; bin; bird; birthday; bit; bite; black; blackboard; blade; blanket; blend; block; blood; blow; blue; board; boat; body; bomb; bone; book; booking; boost; boss; bottle; bottom; bow; bowl; box; boxing; boy; boyfriend; brain; brake; branch; brand; bread; break; breakfast; breath; breed; bribe; brick; bride; bridge; brother; brown; brush; bubble; bucket; bug; builder; building; bulb; bull; bullet; bully; bump; bunch; burger; bus; bush; business; butter; butterfly; button; buzz; cab; cabbage; cabin; cage; cake; calculator; calendar; call; camel; camera; camp; camping; campsite; can; cancer; canteen; cap; capital; captain; capture; car; card; care; carnival; carpet; carrot; cartoon; case; cash; casserole; cast; castle; cat; cause; cave; ceiling; cell; cent; centre; cereal; chain; chair; challenge; champion; championship; chance; change; chapter; character; charge; charm; chat; check; cheer; cheese; chef; chess; chest; chicken; child; chilli; chimney; chin; chip; chocolate; choice; church; cinema; circle; circus; city; class; classic; classroom; click; cliff; climbing; clinic; clock; cloth; clothes; clothing; cloud; club; clue; clutch; coach; coal; coat; coconut; code; coffee; coin; cola; cold; collar; collection; college; colour; column; comedy; comic; company; competition; complex; computer; concert; control; cook; cookie; cooking; core; corn; corner; cost; costume; cottage; cotton; cough; count; counter; country; couple; courage; course; court; cousin; cow; cover; crab; crack; craft; crash; cream; creature; creep; crew; cricket; crime; crocodile; cross; crowd; cruise; cry; crystal; cup; cupboard; curve; custom; customer; cut; cutlery; dad; damage; dance; dancer; dancing; danger; darkness; darling; dash; date; daughter; dawn; day; death; december; deck; deer; defeat; defence; defender; delivery; desert; design; desire; desk; dessert; detective; devil; diamond; diary; dice; diet; difference; dinner; dinosaur; directions; dirt; disaster; disc; disco; disease; disguise; dishwasher; disk; distance; dive; diver; diving; division; dock; doctor; dog; doll; dollar; dolphin; domination; donkey; doom; door; dot; dr; draft; drain; drawer; drawing; dream; dress; drink; drive; driver; drop; drum; duck; dump; dust; duty; ear; earth; earthquake; ease; east; edge; egg; electricity; element; elephant; email; empire; end; enemy; energy; engine; enthusiasm; entrance; envelope; equipment; error; escape; evening; evil; excitement; excuse; exercise; experiment; expert; explosion; explosive; expression; extra; eye; face; fact; factory; fake; fall; fame; family; fantasy; farm; farmer; fashion; fat; father; favourite; fear; feeling; female; fence; ferry; field; fifth; fight; fighting; figure; final; fine; finger; fingernail; finish; fire; fish; fishing; fist; fitness; flash; flat; flavour; flesh; flight; floor; flour; flower; flu; fly; fog; food; fool; foot; football; footballer; force; forest; form; fortune; fox; frame; friday; fridge; friend; fright; frog; fruit; fun; funeral; fur; furniture; future; game; gang; gap; garage; garden; gas; gate; gathering; gear; ghost; giant; gift; girl; glance; glass; glasses; glow; glue; go; goal; goalkeeper; god; gold; golf; good; goodness; goods; government; grade; grandfather; grandpa; grandmother; grandpa; grandson; grant; grass; green; grey; grin; grip; groom; ground; group; guard; guess; guest; guide; guitar; gum; gun; guts; guy; gym; gymnastics; hail; hair; hairdresser; hall; ham; hammer; hand; handle; happiness; harmony; hat; hate; head; heading; health; heart; heat; heaven; hedge; height; helicopter; hell; helmet; help; hero; hill; history; hit; hobby; hockey; hold; hole; holiday; home; homework; honesty; honey; hood; hope; horn; horror; horse; hospital; host; hotel; hour; house; hug; human; hunt; hunting; hurry; husband; ice; idea; imagination; inch; indicator; information; ink; inside; interior; invasion; invention; investigation; invitation; iron; island; it; item; jacket; jail; jam; january; jar; jaw; jeans; jet; jewellery; job; joke; journal; journey; joy; juice; july; jump; jumper; june; jungle; junk; kangaroo; keeper; kettle; key; keyboard; kick; kid; killer; killing; kind; king; kingdom; kiss; kit; kitchen; kite; kitten; knife; knot; lab; laboratory; labour; lad; ladder; lady; lake; lamb; lamp; land; landing; lane; language; lap; laptop; laser; laugh; launch; law; lawn; layer; lead; leader; leap; learning; leave; left; leg; legend; lemon; lemonade; leopard; lesson; letter; lettuce; level; liar; library; lie; life; lifetime; lift; light; lighting; lightning; line; link; lion; lip; list; literacy; litre; liver; living; lock; log; look; lounge; love; luck; luggage; lunch; lunchtime; machine; magazine; magic; mail; man; manager; mango; mansion; map; march; mark; market; mask; master; mat; match; mate; maths; matter; may; mayor; meal; means; measure; meat; medal; medication; medicine; meeting; member; membership; mention; menu; mess; message; metal; method; microphone; midnight; milk; mind; mine; miner; minute; mirror; miss; missile; mission; mist; mistake; mix; mixture; mobile; mode; model; moment; monday; money; monkey; monster; month; mood; moonlight; morning; mother; motorbike; mountain; mouse; mouth; move; movement; movie; mr; mrs; ms; mud; mug; mum; murder; muscle; museum; music; mystery; nail; name; nap; neck; necklace; need; needle; neighbour; nest; net; news; newspaper; night; nightmare; noise; north; nose; note; notice; number; nurse; nursery; nut; oak; object; obstacle; ocean; october; offence; office; officer; oil; onion; opening; opera; opponent; opposite;

orange; oven; owl; owner; oxygen; pace; pack; packet; page; pain; paint; painting; pair; palace; pan; pancake; pants; paper; parachute; parcel; parent; park; parking; part; partner; party; pass; password; pastry; patch; path; pattern; pause; pay; pea; peace; peach; pedal; pencil; penguin; people; perfume; person; personality; pet; petrol; phone; photo; photographer; piano; picnic; picture; pie; piece; pig; pillow; pilot; pin; pineapple; pink; pirate; pit; pitch; pizza; place; plan; plane; planet; planning; plant; plastic; plate; platform; play; player; playground; pleasure; plug; plus; pocket; poem; point; pole; police; pond; pony; pool; pop; pork; port; position; post; poster; pot; potato; pound; powder; power; practice; prawn; present; president; priest; prince; princess; principal; prison; prisoner; prize; problem; professional; professor; profile; program; promise; proper; property; pub; pudding; punch; puppy; purple; push; pyjamas; pyramid; quarter; queen; quest; question; quiet; quiz; rabbit; race; radio; rail; rain; rainbow; raincoat; rally; rap; rat; rating; ray; razor; reach; read; reader; reading; reason; recipe; rectangle; red; reflection; region; relief; reply; report; rescue; research; rest; restaurant; return; revenge; rice; ride; rider; right; ring; river; road; roar; robbery; robot; rock; rocket; roll; roof; room; rope; rose; round; row; rubber; rubbish; rule; ruler; run; running; runway; rush; saddle; safety; sailing; salad; sale; salmon; salt; sand; sandwich; saturday; sauce; sausage; saying; scar; scarf; school; science; scientist; scooter; scope; score; scrap; scratch; scream; sea; seal; search; season; seat; second; secret; section; security; seed; self; sense; sentence; series; service; session; set; setting; shadow; shape; share; shark; shed; sheep; sheet; shelf; shell; shelter; shield; shift; ship; shirt; shock; shoe; shooting; shop; shopkeeper; shopping; shorts; shot; shoulder; show; shower; shuttle; side; sight; sign; signal; silence; silver; singer; singing; single; sink; sir; siren; sister; site; size; skate; skateboard; skating; skeleton; skiing; skill; skin; skirt; skull; sky; slap; sleep; slice; smell; smile; smoke; smoking; snack; snake; snow; soap; sofa; soil; soldier; solo; son; song; sort; sound; soup; source; south; space; speaker; species; speech; speed; spelling; spending; sphere; spider; spine; spirit; spoon; sport; spot; spotlight; spray; spread; spring; spy; squad; square; squash; stadium; staff; stage; stairs; stand; standard; star; start; state; station; statue; stay; steak; steam; step; stick; stomach; stone; stop; store; storey; storm; story; straw; strawberry; stream; street; stretch; strike; string; stroke; stroll; student; studio; study; stuff; subject; substance; sugar; suit; summer; sun; sunday; sunglasses; sunlight; supermarket; supporter; surface; surfing; surprise; surroundings; survivor; swan; sweat; sweet; swim; swimmer; swimming; swing; switch; sword; system; table; tail; talk; tank; tap; target; taste; taxi; tea; teacher; teaching; team; teaspoon; teenager; telescope; television; tennis; tent; term; test; text; thanks; theatre; theme; thief; thing; third; thought; thunder; thunderstorm; thursday; tick; ticket; tie; tiger; time; tin; tissue; title; toast; today; toe; toilet; tomato; tomb; tomorrow; tongue; tonight; tooth; top; topic; torch; tornado; touch; tour; tournament; towel; tower; town; toy; track; traffic; trail; train; trainer; training; transport; trap; trash; travel; tray; treasure; treat; tree; tribe; trick; trip; troops; trophy; trouble; truck; trumpet; trunk; trust; truth; try; tube; tuesday; tune; tunnel; turn; turning; tv; twin; type; tyre; uncle; underwear; uniform; unit; use; wait; walk; walking; wall; wallet; valley; van; war; wardrobe; warehouse; warning; warrior; wash; watch; water; waterfall; wave; way; weapon; weather; web; website; wedding; wednesday; week; weekend; vegetable; weight; veil; welcome; verse; version; vest; vet; whale; wheat; wheel; white; vice; video; view; wife; will; village; win; wind; window; windscreen; vine; wine; wing; winner; winter; violin; wire; wish; visit; witch; voice; volcano; wolf; woman; wood; word; work; world; worm; worry; worse; worst; vote; wrist; writer; writing; yard; year; yellow; zebra; zoo;

*Year 4 (1445 nouns):*

accident; accommodation; achievement; acid; act; action; activity; actor; ad; adult; advantage; adventure; advertisement; aeroplane; afternoon; age; agency; agent; ages; air; airport; alarm; alert; ambulance; amount; amusement; analysis; angel; anger; animal; ankle; answer; ant; apartment; apple; april; arch; area; arm; army; art; association; attack; attention; attraction; august; aunt; award; baby; babysitter; back; background; backpack; bacon; badge; bag; balance; balcony; ball; ballet; balloon; ban; banana; band; bandage; bang; bar; bark; barn; base; baseball; basement; basket; basketball; bat; bath; bathroom; battle; bay; beach; bear; beat; beauty; bed; bedroom; beef; beer; beginning; behaviour; bell; belongings; belt; bench; bend; bet; bicycle; bid; bike; bikini; bill; bin; bird; birth; birthday; bit; bite; black; blanket; block; blood; blow; blue; board; boat; body; bomb; bone; bonus; book; bookshelf; boost; boot; boss; bottle; bottom; bow; bowl; box; boxing; boy; boyfriend; bracelet; brain; branch; bread; break; breakfast; breath; breed; breeze; brick; bridge; brother; brown; brush; bubble; bucket; budget; bug; building; bull; bullet; bully; bump; bunch; bus; bush; butter; butterfly; button; cabin; cage; cake; call; camera; camp; camping; can; cancer; cap; capital; captain; capture; car; card; cardboard; cardigan; care; career; carpet; carrot; cartoon; case; cash; cast; castle; cat; cattle; cave; ceiling; celebration; cell; cent; centimetre; centre; century; cereal; ceremony; chain; chair; challenge; champion; championship; chance; change; channel; chaos; chapter; character; charge; charm; chat; check; cheek; cheer; cheese; chef; cherry; chest; chicken; child; chill; chilli; chimney; chin; chip; chocolate; choice; choir; church; circle; circus; city; class; classic; classmate; classroom; click; cliff; climbing; clinic; clock; cloth; clothes; clothing; cloud; clown; club; clue; coach; coast; coat; code; coffee; cold; coldness; collapse; collar; colour; combination; comedy; comfort; comic; competition; computer; concert; concrete; condition; confidence; connection; contact; container; contest; control; conversation; cook; cookie; cooking; copper; copy; corner; cost; costume; cottage; cough; country; couple; courage; course; court; cousin; cow; cover; crack; craft; crash; cream; creature; creep; crew; cricket; crime; crisis; cross; crossing; crowd; crush; cry;

crystal; cup; cupboard; cure; customs; cut; dad; damage; dance; dancer; dancing; danger; darkness; darling; dash; date; daughter; day; daytime; deal; death; deck; deer; defeat; description; desert; designer; dessert; detective; devastation; devil; diamond; diary; dictionary; difference; dinner; dinosaur; directions; dirt; disaster; discipline; disco; disguise; display; distance; distraction; division; doctor; dog; doll; dollar; doom; door; doorway; drama; dream; dress; drink; drive; driver; drop; drum; duck; duty; ear; earth; earthquake; east; edge; effect; egg; elbow; election; electricity; element; elephant; emergency; encouragement; end; enemy; energy; engine; entertainment; entrance; envelope; environment; equipment; escape; estate; evening; evil; exam; examination; example; excitement; excuse; exercise; experience; experiment; exploration; explosion; explosive; expression; extra; eye; face; fact; factory; fair; fake; fall; fame; family; fan; farm; fascination; fashion; fat; father; fault; favourite; fear; february; feeling; fence; festival; fever; field; fifth; fight; fighting; figure; final; fine; finish; fire; firm; fish; fishing; flash; flavour; flight; floor; flower; flu; fly; focus; fog; food; foot; football; force; forehead; forest; form; fountain; fox; frame; freedom; freezer; friday; fridge; friend; fright; frog; fruit; fuel; fun; funeral; fur; furniture; fury; future; game; gang; garage; garden; gardening; gas; gasp; gate; gear; gender; ghost; giant; girl; girlfriend; glass; glasses; glow; glove; go; goal; goat; gold; golf; good; goods; government; grade; grandfather; grandma; grandmother; grandpa; grandson; grant; grasp; grass; grave; green; grey; grin; ground; group; guard; guess; guide; guitar; gum; gun; guts; guy; gym; gymnastics; hail; hair; haircut; hall; ham; hammer; hand; handbag; handball; handle; happiness; harm; hat; hate; head; heading; headquarters; health; heap; heart; heat; heater; heaven; heel; height; helicopter; hell; helmet; help; hero; hill; hip; history; hit; hold; hole; holiday; home; homework; honey; hook; hope; horn; horror; horse; hospital; host; hostel; hotel; hour; house; hug; human; hunt; hunting; hurry; husband; hut; ice; idea; imagination; importance; increase; independence; information; injury; inside; insight; invasion; invention; invitation; island; it; jacket; jail; jam; jar; jazz; jeans; jet; jewel; jewellery; job; journey; joy; judge; juice; july; jump; jumper; june; jungle; junk; kangaroo; kettle; key; kick; kid; killer; killing; kind; king; kingdom; kiss; kitchen; kite; kitten; knee; knife; lab; ladder; lady; lake; lamb; land; landing; lane; language; lap; laptop; laser; laugh; laughter; law; lawn; layer; lead; leader; leaf; league; leak; learning; leave; left; leg; legend; lemon; lemonade; leopard; lesson; letter; lettuce; level; liberty; library; lid; life; lifetime; lift; light; lighting; lightning; line; lion; liquid; list; literacy; litter; living; loaf; local; lock; log; look; lottery; lounge; love; luck; luggage; lump; lunch; lunchtime; lyrics; machine; magic; mail; maker; male; mall; man; manager; mango; mansion; manual; map; march; margin; mark; market; mask; master; mat; match; mate; material; maths; matter; may; meal; means; meat; mechanic; medal; medicine; medium; meeting; mention; mess; message; metal; metre; midnight; milk; mind; mine; miner; minute; mirror; misery; miss; mission; mist; mistake; mix; mixture; model; moment; monday; money; monkey; monopoly; monster; month; mood; morning; mosquito; mother; motor; motorbike; mountain; mouse; mouth; move; movement; movie; mr; mrs; ms; mud; mum; murder; murderer; muscle; museum; music; musical; mystery; name; nap; nation; nature; neck; necklace; need; needle; neighbour; neighbourhood; nephew; nerve; nest; net; news; newspaper; nickname; night; nightmare; noise; north; nose; note; notice; nuisance; number; object; obstacle; occasion; ocean; october; office; officer; official; oil; onion; opening; opponent; opposite; orange; order; orphan; oven; owner; pack; pain; paint; pair; palace; palm; panel; pants; paper; parachute; parade; paradise; parcel; parent; park; parrot; part; party; pass; passage; passenger; passport; pasta; patch; path; patience; pattern; pause; pay; peace; peach; peak; peanut; pear; pen; pencil; penguin; people; pepper; performance; perfume; person; personality; pet; petrol; phone; photo; piano; picnic; picture; pie; piece; pig; pile; pill; pillow; pilot; pin; pink; pipe; pirate; pit; pitch; pizza; place; plan; plane; planet; planning; plant; plastic; plate; platform; play; player; playground; pleasure; plumber; pocket; point; poison; pole; police; policeman; pony; pool; pop; post; poster; pound; powder; power; practice; predator; present; president; pressure; price; prince; princess; principal; print; prison; prize; problem; production; professional; professor; profile; progress; project; promise; property; protection; pulse; pump; punch; punishment; puppy; purple; purpose; purse; push; puzzle; pyjamas; quarter; queen; quest; question; quiet; quiz; rabbit; race; radio; raid; railway; rain; rainbow; raincoat; rainforest; rally; rat; ray; reach; read; reading; realm; reason; recipe; rectangle; red; referee; register; release; remains; rent; reply; reporter; rescue; response; rest; restaurant; return; reward; revenge; ribbon; rice; ride; rider; right; ring; risk; river; road; roar; robbery; robot; rock; rocket; roll; roof; room; root; rope; rose; round; routine; row; rubber; rugby; rule; ruler; rumour; run; running; rush; sack; saddle; sadness; safety; sail; salad; sale; sample; sand; sandwich; saturday; sauce; saucepan; saucer; sausage; saving; saying; scar; scarf; scene; scent; scholarship; school; science; scientist; scissors; scooter; score; scream; screen; sea; search; season; seat; second; secret; section; security; seed; self; sense; september; series; servant; service; set; setting; shade; shadow; shame; shampoo; shape; share; shark; shed; sheep; sheet; shell; shelter; shift; ship; shirt; shock; shoe; shooting; shop; shopping; shore; shorts; shot; shoulder; show; shower; shuttle; sickness; side; sight; sign; signal; silence; silver; simulation; singer; singing; single; sink; sir; siren; sister; site; situation; size; skate; skateboard; skateboarding; skeleton; sketch; ski; skiing; skill; skin; skull; sky; slap; slaughter; slave; sleep; slot; smell; smile; smoke; snack; snake; snow; society; soldier; son; song; sort; soul; sound; soup; south; souvenir; soya; space; spade; speaker; species; speed; spelling; spending; sphere; spider; spine; splash; spoon; sport; spot; spray; spread; spy; squad; square; stable; stadium; staff; stage; staircase; stairs; stand; star; stardom; start; starvation; state; station; statue; status; steel; step; stick; stitch; stomach; stone; stool; stop; store; storey; storm; story; stranger; strawberry; stream; street; strength; stretch; strike;

string; stripe; stroke; stroll; study; stuff; style; subject; substitute; success; sugar; suit; suitcase; sum; summer; summit; sun; sunday; sunlight; sunset; sunshine; supermarket; supply; surface; surfing; surgery; surprise; surroundings; sweat; sweet; sweets; swim; swimming; swing; switch; sword; system; table; tail; tale; talk; talks; tank; tap; target; taste; taxi; tea; teacher; teaching; team; tear; technology; teenager; telescope; television; temper; temperature; temple; tennis; tent; term; terror; test; thanks; theft; theme; thief; thing; third; thought; thrill; throat; throne; thunder; thursday; tick; ticket; tide; tie; tiger; tights; timber; time; tin; tip; toast; today; toe; toilet; tomato; tomorrow; ton; tone; tongue; tonight; tooth; top; topic; torch; tornado; torture; total; touch; tour; tourist; tournament; towel; tower; town; toy; track; tractor; trade; traffic; trail; train; trainer; training; transport; trap; travel; treasure; tree; triangle; trick; trip; trolley; trophy; trouble; truck; trust; try; tube; tuesday; tune; tunnel; turn; turning; tv; twin; type; tyre; umbrella; uncle; underwear; university; use; waist; wait; waitress; walk; walker; walking; wall; valley; van; war; wardrobe; warehouse; warmth; warning; warrior; wash; waste; watch; water; waterfall; wave; way; weapon; weather; web; webcam; wedding; wednesday; weed; week; weekend; vegetable; vegetarian; weight; welcome; velvet; version; west; vet; whale; wheat; wheel; whistle; white; video; widow; view; wife; will; village; win; wind; window; vine; wing; winner; winter; violence; wish; visit; witch; voice; volcano; wolf; volleyball; woman; wood; wool; word; work; worker; world; worm; worry; worse; worst; vote; wreck; wreckage; writer; writing; yard; year; yell; yellow; zip; zone; zoo;

## Appendix AC

As discussed in Subchapter 11.2, we identified 3710 unique nouns in vocabulary A1&A2&B1&B2&C1&C2 of English Vocabulary Profile covering cumulative vocabularies of six language ability levels ranging from A1 to C2 (as of June-July 2013). In hyperlink network of Wikipedia (as of June-July 2013) between these 3710 unique nouns of vocabulary A1&A2&B1&B2&C1&C2 we identified 25153 unique interconnecting hyperlinks containing 2878 unique nouns. Following listing contains all 25153 unique hyperlinks, here notation A>B denotes a hyperlink leading from concept A to concept B (corresponding to a hyperlink leading from Wikipedia article A to Wikipedia article B).

Among 2878 unique concepts the biggest subentity that enabled traversing hyperlink chains between any of concepts belonging to this subentity in hyperlink network of vocabulary A1&A2&B1&B2&C1&C2 when any hyperlink can be traversed in both actual linking direction and opposite direction contained 2850 unique concepts and there were 28 external unique concepts (shown in Appendix AD). 14 unique hyperlinks of 25153 unique interconnecting hyperlinks containing these external 28 unique concepts include: remark>comment, directions>direction, ending>end, exhaust>exhaustion, hole>opening, networking>network, northwest>southeast, programme>program, registration>register, resemblance>similarity, scene>scenery, superiority>superior, terms>term and willingness>will.

All 25153 unique hyperlinks between 3710 unique nouns of vocabulary A1&A2&B1&B2&C1&C2 containing 2878 unique nouns:  
ability-intelligence; ability>skill; abortion>contraceptive; abortion>rape; abortion>terrorism; abuse>accident; abuse>aggression; abuse>anger; abuse>anxiety; abuse>behaviour;  
abuse>childhood; abuse>consent; abuse>crime; abuse>criticism; abuse>denial; abuse>disability; abuse>discrimination; abuse>dislike; abuse>embarrassment;  
abuse>exaggeration; abuse>fear; abuse>gang; abuse>gender; abuse>harassment; abuse>harm; abuse>hatred; abuse>health; abuse>human; abuse>humility; abuse>individual;  
abuse>injustice; abuse>insult; abuse>jealousy; abuse>language; abuse>liberty; abuse>memory; abuse>metaphor; abuse>morale; abuse>neglect; abuse>negligence; abuse>pain;  
abuse>perception; abuse>persuasion; abuse>prejudice; abuse>pride; abuse>psychology; abuse>racism; abuse>rape; abuse>reputation; abuse>resentment; abuse>respect;  
abuse>self-esteem; abuse>shame; abuse>skill; abuse>slavery; abuse>solitude; abuse>suffering; abuse>threat; abuse>torture; abuse>vandalism; abuse>violence; accent>drawing;  
acceptance>anxiety; acceptance>human; acceptance>motivation; acceptance>peer pressure; acceptance>psychology; acceptance>reality; acceptance>self-esteem;  
acceptance>suffering; accident>injury; accident>leisure; accident>necessity; accident>safety; accident>secret; accountant>report; accountant>business; accountant>profession;  
accountant>university; ache>pain; acid>alcohol; acid>aspirin; acid>bacteria; acid>carbon dioxide; acid>cola; acid>dna; acid>fat; acid>gas; acid>liquid; acid>mammal; acid>protein;  
acid>solution; acid>stomach; acid>vinegar; acre>area; acre>day; acre>metre; acre>yard; act>document; act>pact; act>peace; act>war; actor>celebrity; actor>comic; actor>drama;  
actor>film; actor>ghost; actor>hypocrisy; actor>opera; actor>person; actor>song; actor>system; actor>television; actor>theatre; actor>tragedy; adaptation>behaviour;  
adaptation>climate; adaptation>crab; adaptation>deer; adaptation>evolution; adaptation>extinction; adaptation>genetics; adaptation>habitat; adaptation>immune system;  
adaptation>infection; adaptation>learning; adaptation>rat; addict>addiction; addiction>alcohol; addiction>anxiety; addiction>dna; addiction>gambling; addiction>genetics;  
addictions>motivation; addiction>reasoning; addiction>withdrawal; addition>angle; addition>apple; addition>circle; addition>force; addition>infant; addition>noun;  
addition>paper; addition>pie; addition>pressure; addition>toddler; addition>verb; adjective>adverb; adjective>clause; adjective>determiner; adjective>grammar; adjective>infinitive;  
adjective>language; adjective>noun; adjective>preposition; adjective>quantity; adjective>verb; administration>management; admiration>awe; admiration>envy; adoption>abortion;  
adoption>court; adoption>inheritance; adoption>stereotype; adult>biology; adult>child; adult>contract; adult>employment; adult>gambling; adult>law; adult>lottery; adult>marriage;  
adult>person; adult>president; adult>prostitute; adult>reproduction; adult>sex; adventure>excitement; adventure>extreme sports; adventure>fear; adventure>learning;  
adventure>recreation; adventure>risk; adventure>tourism; adverb>adjective; adverb>clause; adverb>comparative; adverb>noun; adverb>superlative; adverb>verb;  
advert>advertising; advertisement>advertising; advertising>aircraft; advertising>attention; advertising>blog; advertising>brand; advertising>brochure; advertising>camera;  
advertising>communication; advertising>consumer; advertising>creativity; advertising>design; advertising>female; advertising>gender; advertising>household;  
advertising>information; advertising>logo; advertising>magazine; advertising>marketing; advertising>message; advertising>newspaper; advertising>persuasion; advertising>poster;  
advertising>problem; advertising>propaganda; advertising>radio; advertising>reality; advertising>rocket; advertising>tram; advertising>website; advice>advocate; advocate>court;  
advocate>judge; advocate>law; advocate>lawyer; advocate>profession; advocate>prosecutor; advocate>solicitor; affair>deception; affair>integrity; affair>lie; affair>marriage;  
affair>sex; affection>communication; affection>emotion; affection>friendship; affection>love; affection>philosophy; affection>psychology; afternoon>evening; afternoon>midday;  
afternoon>midnight; afternoon>noon; afternoon>summer; age>gold; agent>robot; agent>title; aggression>adaptation; aggression>anger; aggression>animal; aggression>capitalism;  
aggression>evolution; aggression>fear; aggression>hostility; aggression>injustice; aggression>learning; aggression>peer pressure; aggression>poverty; aggression>property;  
aggression>resource; aggression>revenge; aggression>survival; aggression>trade; aggression>violence; agreement>consensus; agreement>contract; agreement>disagreement;  
agreement>treaty; agriculture>ant; agriculture>bean; agriculture>camel; agriculture>carbon dioxide; agriculture>cereal; agriculture>civilization; agriculture>climate;  
agriculture>climate change; agriculture>cotton; agriculture>donkey; agriculture>drug; agriculture>famine; agriculture>food; agriculture>fruit; agriculture>fuel; agriculture>genetics;  
agriculture>global warming; agriculture>grain; agriculture>grape; agriculture>harvest; agriculture>insect; agriculture>meat; agriculture>pea; agriculture>perfume; agriculture>plant;  
agriculture>potato; agriculture>productivity; agriculture>rice; agriculture>riot; agriculture>root; agriculture>satellite; agriculture>silk; agriculture>spice; agriculture>sustainability;  
agriculture>tobacco; agriculture>tractor; agriculture>vegetable; agriculture>wheat; agriculture>wine; agriculture>wool; aid>capitalism; aid>commerce; aid>country; aid>diplomacy;  
aid>donation; aid>government; aid>interaction; aid>loan; aid>penguin; aid>scholar; aid>starvation; aid>transport; aid>vaccine; aid>war; air conditioning>air; air  
conditioning>biology; air conditioning>carbon; air conditioning>carbon dioxide; air conditioning>central heating; air conditioning>chemistry; air conditioning>climate; air  
conditioning>construction; air conditioning>cooking; air conditioning>frost; air conditioning>gas; air conditioning>bicycle; air conditioning>hospital; air conditioning>ice; air conditioning>infection; air  
conditioning>invention; air conditioning>inventor; air conditioning>laboratory; air conditioning>liquid; air conditioning>mining; air conditioning>oxygen; air conditioning>ozone; air  
conditioning>pressure; air conditioning>sun; air conditioning>system; air conditioning>temperature; air force>balloon; air force>bomber; air force>missile; aircraft>air; aircraft>airport;  
aircraft>atmosphere; aircraft>balloon; aircraft>bomber; aircraft>cargo; aircraft>flight; aircraft>helicopter; aircraft>human; aircraft>kite; aircraft>landing; aircraft>missile;  
aircraft>rocket; aircraft>wind; aircraft>wing; airline>aircraft; airline>airport; airline>cargo; airlines>corporation; airline>fuel; airline>mail; airline>partnership; airlines>passenger;  
airline>takeover; airline>travel; airport>accident; airport>agriculture; airport>aircraft; airport>airline; airport>bird; airport>brake; airport>concrete; airport>corporation; airport>erosion;  
airports>film; airports>flood; airports>log; airports>government; airport>grass; airport>helicopter; airport>hotel; airport>ice; airport>immigration; airport>landing; airport>mountain;  
airports>navy; airport>politician; airport>public transport; airports>radio; airports>rain; airport>road; airports>runway; airports>snow; airport>terrorism; airports>tree; airport>weather; alarm  
clock>clock; alarm clock>nap; alarm clock>radio; alarm clock>sleep; alarm clock>time; album>lyrics; alcohol>acid; alcohol>alcoholic; alcohol>carbon; alcohol>carbon dioxide;  
alcohol>chemistry; alcohol>cholesterol; alcohol>metal; alcohol>oxygen; alcohol>perfume; alcohol>salt; alcohol>soap; allegation>complaint; alliance>fact; alliance>airline;  
alliance>contract; alliance>friendship; alliance>pact; alliance>treaty; allowance>supermarket; alphabet>consonant; alphabet>language; alphabet>spelling; alphabet>syllable;  
alphabet>turkey; alphabet>vowel; aluminium>adaptation; aluminium>bacteria; aluminium>carbon; aluminium>coin; aluminium>concrete; aluminium>copper;  
aluminium>density; aluminium>deodorant; aluminium>digestion; aluminium>door; aluminium>earth; aluminium>glass; aluminium>gold; aluminium>iron; aluminium>leather;  
aluminium>metal; aluminium>mirror; aluminium>ocean; aluminium>oxygen; aluminium>paint; aluminium>recycling; aluminium>rubber; aluminium>silver; aluminium>steel;  
aluminium>tin; aluminium>transport; aluminium>truck; aluminium>water; aluminium>wheat; aluminium>window; aluminium>year; amateur>astronomy; amateur>baseball;  
amateur>basketball; amateur>boxing; amateur>professional; ambassador>diplomacy; ambassador>diplomat; ambassador>embassy; ambiguity>bank;  
ambiguity>creativity; ambiguity>dimension; ambiguity>gain; ambiguity>jargon; ambiguity>leadership; ambiguity>literature; ambiguity>logic; ambiguity>metre; ambiguity>music;  
ambiguity>paradox; ambiguity>pharmacist; ambiguity>pharmacy; ambiguity>philosopher; ambiguity>physics; ambiguity>prefix; ambiguity>rhythm; ambiguity>sadness;  
ambiguity>science; ambiguity>suffix; ambiguity>uncertainty; ambiguity>vocabulary; ambulance>air conditioning; ambulance>bicycle; ambulance>disaster; ambulance>electronics;  
ambulance>firefighter; ambulance>fuel; ambulance>helicopter; ambulance>illness; ambulance>injury; ambulance>mobile phone; ambulance>tank; ambulance>traffic light;  
ambulance>weapon; ambulance>vehicle; ambulance>wheelchair; amendment>constitution; amendment>contract; amendment>law; amendment>motion; amendment>parliament;  
amendment>referendum; amendment>verb; amount>quantity; amusement>enjoyment; amusement>entertainment; amusement>experience; amusement>happiness;  
amusement>humour; amusement>laughter; amusement>pleasure; analogy>argument; analogy>atom; analogy>authority; analogy>common sense; analogy>communication;  
analogy>creativity; analogy>culture; analogy>emotion; analogy>evolution; analogy>explanation; analogy>fight; analogy>god; analogy>idiom; analogy>information; analogy>insect;  
analogy>language; analogy>law; analogy>logic; analogy>memory; analogy>message; analogy>metaphor; analogy>perception; analogy>philosophy; analogy>politics;  
analogy>precedent; analogy>probability; analogy>proverb; analogy>psychology; analogy>role; analogy>science; analogy>software; analogy>sun; analogy>truth; analogy>verb;  
analogy>writing; analysis>chemistry; analysis>complexity; analysis>electronics; analysis>engineering; analysis>geology; analysis>language; analysis>literature; analysis>logic;

analysis>mixture; analysis>police; analysis>statistics; ancestor>bacteria; ancestor>dna; ancestor>evolution; ancestor>genetics; ancestor>grandparent; ancestor>parent; anchor>cable; anchor>chain; anchor>rope; anchor>storm; angel>atmosphere; angel>earth; angel>evolution; angel>gender; angel>global warming; angel>god; angel>heaven; angel>hell; angel>icon; angel>matter; angel>nature; angel>planet; angel>religion; angel>spirit; angel>star; angel>sun; angel>time; angel>aggression; angel>angel; angel>appetite; angel>criticism; angel>devil; angel>discrimination; angel>emotion; angel>evaluation; angel>god; angel>gossip; angel>hated; angel>hostility; angel>humility; angel>infection; angel>intelligence; angel>negotiation; angel>pain; angel>punishment; angel>rage; angel>rape; angel>resentment; angel>revenge; angel>selfishness; angel>senior; angel>society; angel>statistics; angel>threat; angel>violence; angel>virtue; angel>ankle; angel>astronomy; angel>curve; angel>earth; angel>geography; angel>kilometre; angel>star; angel>surface; angel>triangle; animal>bacteria; animal>body; animal>breath; animal>carbon dioxide; animal>coral; animal>digestion; animal>evolution; animal>extinction; animal>fish; animal>gene; animal>lung; animal>mammal; animal>muscle; animal>oxygen; animal>protein; animal>reptile; animal>sunlight; animal>trait; animation>blackboard; animation>camera; animation>computer; animation>glass; animation>illusion; animation>light; animation>software; animation>the internet; ankle>foot; ankle>joint; ankle>pain; anniversary>birthday; anniversary>constitution; anniversary>day; anniversary>millennium; anniversary>saint; annoyance>anger; annoyance>distraction; annoyance>emotion; annoyance>frustration; annoyance>thought; answer>complaint; answer>imprisonment; answer>information; answer>lawyer; answer>punishment; answer>question; answer>reply; ant>adaptation; ant>animal; ant>bee; ant>carbon dioxide; ant>civilization; ant>earth; ant>ecology; ant>evolution; ant>human; ant>insect; ant>mammal; ant>muscle; ant>predator; ant>region; ant>soil; ant>trail; ant>wasp; antique>bronze; antique>pine; anxiety>authority; anxiety>digestion; anxiety>fear; anxiety>headache; anxiety>immune system; anxiety>reality; anxiety>self-esteem; anxiety>symptom; anxiety>terror; anxiety>tradition; apartment>bathroom; apartment>bedroom; apartment>brick; apartment>building; apartment>furniture; apartment>house; apartment>laundry; apartment>loft; apartment>parking; apartment>pet; apartment>telephone; apartment>theft; apartment>waste; apostrophe>advertising; apostrophe>definite article; apostrophe>dice; apostrophe>hyphen; apostrophe>noun; apostrophe>penny; apostrophe>plural; apostrophe>punctuation; apostrophe>suffix; apostrophe>vandalism; apostrophe>vowel; appeal>law; appetite>brain; appetite>food; appetite>obesity; applause>audience; applause>comedian; applause>concert; applause>golf; applause>jazz; applause>news; applause>opera; applause>prime minister; applause>television; apple>ancestor; apple>carbon dioxide; apple>evil; apple>fruit; apple>leaf; apple>obesity; apple>oxygen; apple>plant; apple>proverb; apple>seed; apple>tree; apple>turkey; apple>vinegar; application>question; april>autumn; april>month; april>october; arch>concrete; arch>erosion; arch>structure; archaeologist>agriculture; archaeology>agriculture; archaeology>analysis; archaeology>architecture; archaeology>astronomy; archaeology>bureaucracy; archaeology>camera; archaeology>cereal; archaeology>chemistry; archaeology>computer; archaeology>construction; archaeology>elite; archaeology>evolution; archaeology>geography; archaeology>geology; archaeology>history; archaeology>human; archaeology>hypothesis; archaeology>iron; archaeology>kite; archaeology>library; archaeology>literacy; archaeology>map; archaeology>physics; archaeology>plant; archaeology>religion; archaeology>science; archaeology>statistics; archaeology>tool; architect>architecture; architect>artist; architect>construction; architect>engineer; architect>engineering; architect>profession; architecture>architect; architecture>artist; architecture>building; architecture>construction; architecture>craft; architecture>design; architecture>engineer; architecture>engineering; architecture>lighting; architecture>planning; architecture>structure; architecture>sustainability; architecture>system; area>acre; area>addition; area>analysis; area>circle; area>definition; area>formula; area>inch; area>length; area>metre; area>paint; area>quantity; area>rectangle; area>shape; area>sphere; area>surface; area>triangle; area>volume; argument>analogy; argument>evidence; argument>inquiry; argument>logic; argument>philosophy; argument>proposition; argument>reason; argument>truth; argument>validity; arm>elbow; arm>hand; arm>shoulder; arm>wrist; army>air force; army>nation; army>soldier; army>troops; army>war; army>veteran; arrangement>cello; arrangement>guitar; arrangement>orchestra; arrangement>violin; arrest>crime; arrest>detective; arrest>liberty; arrest>police; arrest>riot; arrest>unemployment; arrow>aluminium; arrow>blood; arrow>bone; arrow>copper; arrow>feather; arrow>gram; arrow>human; arrow>inch; arrow>plastic; arrow>quarrel; arrow>wood; art>architecture; art>beauty; art>cancer; art>coin; art>cooking; art>craft; art>creativity; art>dance; art>design; art>dvd; art>emotion; art>farming; art>film; art>globalization; art>human; art>language; art>literature; art>medicine; art>music; art>nature; art>painting; art>peasant; art>philosophy; art>photography; art>pollution; art>propaganda; art>sculpture; art>shape; art>theatre; artificial intelligence>computer; artificial intelligence>consciousness; artificial intelligence>cooperation; artificial intelligence>creativity; artificial intelligence>empathy; artificial intelligence>firm; artificial intelligence>logic; artificial intelligence>mind; artificial intelligence>paradigm; artificial intelligence>perception; artificial intelligence>probability; artificial intelligence>psychology; artificial intelligence>uncertainty; artist>actor; artist>animation; artist>architect; artist>art; artist>astronomy; artist>ballet; artist>balet; artist>chemistry; artist>comedy; artist>craft; artist>creativity; artist>criticism; artist>culture; artist>dance; artist>dancing; artist>design; artist>doll; artist>drawing; artist>entertainer; artist>entertainment; artist>fiction; artist>genius; artist>history; artist>innovation; artist>lyrics; artist>medicine; artist>music; artist>musician; artist>painting; artist>photography; artist>poetry; artist>pottery; artist>project; artist>sculpture; artist>singing; artist>skill; artist>speech; artist>technician; artist>technology; artist>tragedy; artist>writing; aspiration>hope; aspirin>acid; aspirin>bark; aspirin>cancer; aspirin>decade; aspirin>experiment; aspirin>fever; aspirin>gender; aspirin>heart attack; aspirin>kidney; aspirin>liver; aspirin>medication; aspirin>protein; aspirin>stomach; aspirin>stroke; aspirin>vinegar; assault>arrest; assault>boxing; assault>police; assault>pride; assault>rape; assault>terrorism; assembly>manufacturing; assembly>meeting; asset>building; asset>cash; asset>currency; asset>economics; asset>furniture; asset>insurance; asset>investment; asset>machinery; asset>ownership; asset>stock; asset>tool; asset>wealth; asset>website; assistance>aid; assumption>proposition; assurance>insurance; astronomy>archaeology; astronomy>atmosphere; astronomy>atom; astronomy>calendar; astronomy>chemical; astronomy>chemistry; astronomy>earth; astronomy>erosion; astronomy>light; astronomy>matter; astronomy>photography; astronomy>physics; astronomy>planet; astronomy>radio; astronomy>star; astronomy>sun; astronomy>telescope; astronomy>temperature; astronomy>tornado; astronomy>trace; astronomy>wave; athletics>sport; atmosphere>carbon dioxide; atmosphere>climate; atmosphere>dust; atmosphere>earth; atmosphere>evolution; atmosphere>force; atmosphere>gas; atmosphere>oxygen; atmosphere>planet; atmosphere>radiation; atmosphere>sky; atmosphere>space; atmosphere>temperature>sunlight; atmosphere>wind; atom>carbon; atom>carbon dioxide; atom>chemist; atom>chemistry; atom>crystal; atom>diamond; atom>distance; atom>earth; atom>experiment; atom>force; atom>gas; atom>gold; atom>iron; atom>laser; atom>lead; atom>light; atom>liquid; atom>matter; atom>metal; atom>minimum; atom>momentum; atom>oxygen; atom>ozone; atom>particle; atom>pressure; atom>salt; atom>spectrum; atom>star; atom>temperature; atom>tin; atom>water; attachment>virus; attempt>arrest; attempt>crime; attempt>impossibility; attempt>judge; attempt>liberty; attempt>police; attention>distraction; attention>education; attention>philosophy; attention>psychology; attention>sense; attribute>board game; attribute>database; auction>business; auction>cattle; auction>commodity; auction>corporation; auction>debt; auction>fee; auction>marriage; auction>timber; auction>trade; auction>wool; audience>blog; audience>criticism; audience>literature; audience>music; audience>performance; audience>person; audience>review; audience>scholar; audience>software; audience>theatre; audience>video game; audition>actor; audition>comedy; audition>dancer; audition>jazz; audition>musician; audition>opera; audition>orchestra; audition>singer; audition>song; august>february; august>harvest; august>january; august>march; august>month; august>tribe; august>year; aunt>nephew; aunt>niece; aunt>sister-in-law; aunt>uncle; author>existence; author>manufacturing; author>novel; author>person; author>prayer; authority>crowd; authority>dominance; authority>government; authority>persuasion; authority>prayer; authority>revolution; autumn>apple; autumn>baseball; autumn>cherry; autumn>harvest; autumn>night; autumn>oak; autumn>season; autumn>summer; autumn>winter; availability>system; award>badge; award>championship; award>medal; award>prize; award>trophy; awareness>animal; awareness>attention; awareness>brain; awareness>concept; awareness>consciousness; awareness>experience; awareness>idea; awareness>mind; awareness>pattern; awareness>perception; awareness>self-awareness; awareness>understanding; awe>anger; awe>curiosity; awe>dinosaur; awe>embarrassment; awe>emotion; awe>enjoyment; awe>fear; awe>happiness; awe>love; awe>pride; awe>sadness; baby>infant; background>heritage; backpack>camera; backpack>dialect; backpack>hand; backpack>handbag; backpack>hip; backpack>laptop; backpack>luggage; backpack>plastic; backpack>shoulder; backpack>skateboard; backpack>student; backpack>suitcase; backpacker>backpack; backpacker>hostel; backpacking>backpacker; backup>cd; backup>data; backup>dvd; backup>raid; bacon>beef; bacon>chicken; bacon>fat; bacon>goat; bacon>ham; bacon>pizza; bacon>potato; bacon>salad; bacon>salt; bacon>sausage; bacon>skin; bacon>teaspoon; bacteria>agriculture; bacteria>antibiotic; bacteria>blood; bacteria>carbon; bacteria>carbon dioxide; bacteria>carbon monoxide; bacteria>cheese; bacteria>disease; bacteria>dna; bacteria>earth; bacteria>evolution; bacteria>gene; bacteria>genetics; bacteria>habitat; bacteria>immune system; bacteria>infection; bacteria>medicine; bacteria>nose; bacteria>oxygen; bacteria>plant; bacteria>pollution; bacteria>protein; bacteria>shell; bacteria>skin; bacteria>sphere; bacteria>wildlife; bacteria>wine; bacteria>vinegar; bacteria>virus; bacteria>vitamin; bacteria>yogurt; badge>detective; badge>leather; badge>metal; badge>plastic; badge>police; badge>uniform; badminton>competition; badminton>leather; badminton>rubber; badminton>table tennis; badminton>tennis; bag>backpack; bag>basket; bag>berry; bag>clothing; bag>cookie; bag>fee; bag>hand; bag>handbag; bag>leather; bag>money; bag>paper; bag>plastic; bag>pocket; bag>purse; bag>shopping; bag>suitcase; bag>tea; bag>tool; bag>travel; baggage>aeroplane; baggage>clothing; baggage>fashion; baggage>passenger; baggage>souvenir; baggage>suitcase; baggage>tourist; baggage>transport; baggage>travel; baggage>wealth; baggage>vehicle; baker>bakery; baker>bread; baker>cake; baker>employment; baker>fast food; baker>flour; baker>landlord; baker>loaf; baker>oven; baker>recipe; baker>supermarket; bakery>baker; bakery>bread; bakery>caf ; bakery>caf ; bakery>cake; bakery>coffee; bakery>establishment; bakery>flour; bakery>oven; bakery>retail; bakery>tea; balcony>column; ball>cricket; ball>engineering; ball>football; ball>kitten; ball>puppy; ball>rubber; ball>sphere; ballet>music; ballet>orchestra; ballet>singing; balloon>density; balloon>gas; balloon>oxygen; balloon>pump; balloon>solution; balloon>stomach; banana>agriculture; banana>archaeology; banana>bark; banana>carpet; banana>coconut; banana>coffee; banana>cooking; banana>farmer; banana>fruit; banana>ghost; banana>income; banana>mango; banana>pancake; banana>potato; banana>sand; banana>silk; banana>spirit; banana>sunlight; banana>supermarket; banana>taste; banana>tree; banana>umbrella; banana>water; banana>vegetable; banana>virus; band>strap; bang>exclamation mark; bank account>credit card; bank>check; bank>cheque; bank>credit card; bank>debit card; bank>debt; bank>economy; bank>finance; bank>interest; bank>loan; bank>money; bank>overdraft; banker>bank; banking>bank; barbecue>beef; barbecue>casserole; barbecue>chicken; barbecue>goat; barbecue>pig; barbecue>pork; barbecue>sausage; barbecue>vinegar; barber>beard; barber>comb; barber>dentist; barber>hairstylist; barber>mirror; barber>razor; barber>surgery; barber>vocation; bargain>contract; bark>aspirin; bark>backpack; bark>disease; bark>famine; bark>game; bark>pine; bark>potato; bark>root; bark>rope; bark>spice; bark>tree; bark>vine; bark>wood; barn>cattle; barn>door; barn>farm; barn>harvest; barn>horse; barn>loft; barn>problem; barn>saddle; barn>shed; barn>stable; barn>stall; barn>straw; barns>trousers; baseball>baseball; baseball>basketball; baseball>cricket; baseball>ice hockey; baseball>statistics; basement>central heating; basement>coal; basement>door; basement>house; basement>industrialization; basement>leak; basement>renovation; basement>slope; basement>spade; basement>storey; basement>tornado; basement>wine; basket>art; basket>laundry; basket>material; basketball>disability; basketball>peach; basketball>playground; basketball>wheelchair; bat>animal; bat>bird; bat>blood; bat>death; bat>disease; bat>ear; bat>evolution; bat>eye; bat>fish; bat>flesh; bat>flight; bat>flower; bat>fog; bat>food; bat>fruit; bat>genetics; bat>ghost; bat>hero; bat>hunting; bat>insect; bat>mammal; bat>mosquito; bat>novel; bat>owl; bat>rabbit; bat>skeleton; bat>skin; bat>soup; bat>toe; bat>tongue; bat>vein; bat>wife; bat>wolf; bathroom>carpet; bathroom>comb; bathroom>heater; bathroom>mat; bathroom>mirror; bathroom>shower; bathroom>sink; bathroom>soap; bathroom>toilet; bathroom>towel; battle>aircraft; battle>army; battle>castle; battle>combat; battle>earth; battle>geography; battle>helicopter; battle>information; battle>politics; battle>radio; battle>sea; battle>space; battle>strategy; battle>tank; battle>transport; battle>war; battle>weapon; bay>anchor; bay>coast; bay>fish; bay>fishing; bay>lake; bay>pond; bay>port; bay>sea; bay>trade; beach>coast; beach>erosion; beach>sand; beach>shore; beach>waste; beach>wave; beak>bone; beak>evolution; beak>nostril; beak>owl; beak>reptile; beak>shield; beak>skull; beak>tooth; bean>bacteria; bean>cabbage; bean>cabbage; bean>cholesterol; bean>iron; bean>oil; bean>pea; bean>protein; bean>seed; bean>vinegar; bear>animal; bear>ant; bear>bicycle; bear>continent; bear>dna; bear>dog; bear>extinction; bear>fishing; bear>habitat; bear>hug; bear>hunting; bear>insect; bear>mammal; bear>nickname; bear>polar bear; bear>species; bear>stock market; bear>tiger; bear>tribe; bear>wolf; beard>barber; beard>boxing; beard>cheek; beard>chin; beard>evolution; beard>goat; beard>government; beard>hair; beard>honour; beard>moustache; beard>neck; beard>philosopher; beard>politics; beard>razor; beard>religion; beard>scissors; beauty>charisma; beauty>elegance; beauty>harmony; beauty>idea; beauty>integrity; beauty>intelligence; beauty>nature; beauty>perception; beauty>pleasure; beauty>politeness; beauty>ratio; bed>baby; bed>blanket; bed>bronze; bed>clothing; bed>curtain; bed>door; bed>duvet; bed>fur; bed>furniture; bed>gold; bed>hair; bed>hospital; bed>infant; bed>iron; bed>leaf; bed>leather; bed>linen; bed>marriage; bed>metal; bed>parliament; bed>pillow; bed>silk; bed>silver; bed>skin; bed>sleep; bed>straw; bed>throne; bed>velvet; bed>wood; bed>wool; bedrooms>apartment; bedrooms>bathroom; bedrooms>bookcase; bedrooms>carpet; bedrooms>chest of drawers; bedrooms>wardrobe; bee>advertising; bee>ant; bee>banana; bee>butterfly; bee>coconut; bee>disease; bee>evolution; bee>flower; bee>fly; bee>gardener; bee>honey; bee>insect; bee>mosquito; bee>plant; bee>predator; bee>protein; bee>rice; bee>society; bee>wasp; bee>wood; beef>bacteria; beef>barbecue; beef>brain; beef>cattle; beef>cooking; beef>curry; beef>economics; beef>grain; beef>heart; beef>iron; beef>kidney; beef>leather; beef>liver; beef>meat; beef>milk; beef>muscle; beef>oven; beef>pork; beef>reproduction; beef>sauce; beef>sausage; beef>steak; beef>supermarket; beef>vinegar; beer>antibiotic; beer>bread; beer>cancer; beer>carbon dioxide; beer>cholesterol; beer>fat; beer>manufacturing; beer>protein; beer>soft drink; beer>stroke; beer>sugar; beer>tea; beer>thermometer; belief>advertising; belief>faith; belief>idea; belief>knowledge; belief>opinion; belief>proposition; belief>religion; belief>suggestion; belief>truth; benefit>consideration; benefit>economics; benefit>insurance; benefit>law; benefit>system;

benefit-well-being; berry-banana; berry-cherry; berry-fruit; berry>grape; berry>lemon; berry>olive; berry>peach; berry>poison; berry>potato; berry>seed; berry>skin; berry>strawberry; berry>tomato; bestseller-advertising; bestseller-book; bestseller-chart; bestseller-fiction; bestseller-film; bestseller-marketing; bestseller-novel; bestseller>professor; bestseller>publicity; bestseller>publisher; bestseller>retailer; bet-gambling; bias-audience; bias>employment; bias>government; bias>journalist; bias>ownership; bias>preference; bias>prejudice; bias>racism; bicycle-carbon dioxide; bicycle-cycling; bicycle>hand; bicycle>mail; bicycle>recreation; bicycle>sport; bicycle>transport; bicycle>vehicle; bike>bicycle; bikini>breast; bikini>cotton; bikini>fashion; bikini>shoulder; bikini>surfing; bikini>thigh; bikini>tights; bill>beak; bill>menu; bill>police; bill>poster; biography>literacy; biography>priest; biography>saint; biology-aggression; biology-agriculture; biology>animal; biology>bacteria; biology>cancer; biology>climate; biology>climate change; biology>dna; biology>ecology; biology>energy; biology>essay; biology>evolution; biology>food; biology>gene; biology>genetics; biology>habitat; biology>human; biology>immune system; biology>life; biology>medicine; biology>plant; biology>population; biology>protein; biology>psychology; biology>species; biology>adaptation; bird>agriculture; bird>bacteria; bird>beak; bird>blindness; bird>cat; bird>chicken; bird>crocodile; bird>dinosaur; bird>dog; bird>dolphin; bird>duck; bird>eagle; bird>ear; bird>evolution; bird>extinction; bird>feather; bird>heart; bird>hunting; bird>insect; bird>kidney; bird>owl; bird>parrot; bird>penguin; bird>predator; bird>reptile; bird>season; bird>snake; bird>sound; bird>sun; bird>swan; bird>tuna; bird>wing; birth>baby; birth>birthday; birth>death; birth>health care; birth>horizon; birth>life; birth>mother; birth>nerve; birth>offspring; birth>pregnancy; birth>sky; birth>sun; birth>surgery; birth>twin; birth>virgin; birth>days-anniversary; birthday>cake; birthday>holiday; birthday>bean; biscuit-breakfast; biscuit>chocolate; biscuit>cookie; biscuit>cooking; biscuit>dictionary; biscuit>digestion; biscuit>flour; biscuit>sandwich; biscuit>sausage; bit>communication; bit>credit card; bit>dna; bit>information; bit>traffic light; bite>animal; bite>bat; bite>cat; bite>dog; bite>fish; bite>food; bite>infection; bite>mouth; bite>rabbit; bite>wildlife; bite>wolf; bite>wound; black>atom; black>blackmail; black>cherry; black>chess; black>cliché; black>coal; black>copper; black>crime; black>darkness; black>death; black>devil; black>drawing; black>elegance; black>evil; black>god; black>heat; black>ink; black>iron; black>leopard; black>light; black>night; black>oak; black>peach; black>physics; black>sin; black>tree; black>white; blackboard>paint; blackboard>writing; blackmail>gossip; blackmail>robbery; blade>area; blade>bone; blade>butcher; blade>chef; blade>force; blade>hammer; blade>knife; blade>leather; blade>machine; blade>pizza; blade>plastic; blade>predator; blade>pressure; blade>prey; blade>steel; blade>stone; blade>word; blade>tool; blade>toughness; blade>weapon; blame>abuse; blame>accident; blame>anxiety; blame>crime; blame>denial; blame>hierarchy; blame>organization; blame>praise; blame>propaganda; blame>remorse; blame>safety; blame>shame; blanket>cotton; blanket>duvet; blanket>firefighter; blanket>linen; blanket>picnic; blanket>saddle; blanket>sleep; blanket>soil; blanket>wool; blend>dictionary; blend>root; blend>smog; blend>suffix; blindness>calculator; blindness>camera; blindness>coin; blindness>elephant; blindness>euro; blindness>mammal; blindness>mobile phone; blindness>poverty; blindness>rabbit; blindness>tennis; blindness>thermometer; blindness>torture; blister>blood; blister>friction; blister>skin; blog>advertising; blog>brand; blog>business; blog>corporation; blog>family; blog>forgery; blog>journalist; blog>marketing; blog>mobile phone; blog>newspaper; blog>university; blog>web page; blog>website; blogger>blog; blood>ancestor; blood>animal; blood>antibiotic; blood>blue; blood>breath; blood>carbon dioxide; blood>carbon monoxide; blood>copper; blood>film; blood>heart; blood>heat; blood>immune system; blood>infection; blood>injury; blood>insect; blood>iron; blood>kidney; blood>litre; blood>liver; blood>lung; blood>meat; blood>mosquito; blood>oxygen; blood>protein; blood>tobacco; blood>water; blood>vein; blood>virus; blue>atmosphere; blue>basketball; blue>boy; blue>cold; blue>colour; blue>copper; blue>denim; blue>green; blue>ice; blue>ice hockey; blue>ink; blue>ink; blue>jazz; blue>jeans; blue>laser; blue>oxygen; blue>pink; blue>police; blue>red; blue>sadness; blue>sea; blue>sky; blue>sunrise; blue>sunset; blue>truth; blue>water; blue>winter; blue>yellow; board game>cd; board game>chess; board game>dice; board game>diplomacy; board game>dvd; board game>email; board game>game; board game>jargon; board game>lion; board game>luck; board game>material; board game>pizza; board game>scenario; board game>strategy; board game>symbol; board game>website; board game>video game; board>board game; boat>aluminium; boat>density; boat>lake; boat>navy; boat>sail; boat>ship; boat>yacht; body>arm; body>burial; body>death; body>disability; body>disease; body>health; body>human; body>insect; body>materialism; body>meat; body>neck; body>spirit; bomb>air force; bomb>bomber; bomb>bridge; bomb>civilian; bomb>clock; bomb>construction; bomb>explosion; bomb>friction; bomb>heat; bomb>mining; bomb>missile; bomb>parachute; bomb>port; bomb>railway; bomb>remote control; bomb>rocket; bomb>runway; bomb>temperature; bomb>train; bomb>transport; bombing>bomb; bond>guarantee; bone>acid; bone>ankle; bone>beak; bone>birth; bone>brain; bone>coral; bone>disease; bone>evolution; bone>exercise; bone>fat; bone>foot; bone>heart; bone>human; bone>joint; bone>kidney; bone>nerve; bone>offspring; bone>protein; bone>rib; bone>skeleton; bone>skull; bone>structure; bone>author; book>bookcase; book>business; book>cd-rom; book>controversy; book>desk; book>diary; book>dictionary; book>dvd; book>entertainment; book>fiction; book>homework; book>ink; book>leather; book>library; book>linen; book>literacy; book>literature; book>magazine; book>map; book>market; book>meeting; book>music; book>newspaper; book>notebook; book>novel; book>paper; book>photograph; book>prayer; book>publisher; book>punctuation; book>scientist; book>software; book>student; book>textbook; book>word; book>writer; bookcase>book; bookcase>cupboard; bookcase>furniture; bookcase>iron; bookcase>leather; bookcase>library; bookcase>oak; bookcase>steel; booking>arrest; booking>loan; booking>running; booklet>tourism; booklet>book; bookmark>book; bookmark>fabric; bookshelf>bookcase; boot>stole; boot>ankle; boot>blister; boot>fashion; boot>fisherman; boot>foot; boot>hip; boot>ice skating; boot>knee; boot>shoe; boot>skiing; boot>snowboarding; boot>sock; boot>sport; boot>sweat; border>airport; border>alcohol; border>barrier; border>commerce; border>continent; border>export; border>forest; border>geography; border>government; border>immigration; border>import; border>lake; border>ocean; border>passport; border>port; border>river; boss>leadership; boss>management; boss>supervisor; bottle>alcohol; bottle>beer; bottle>cod; bottle>glass; bottle>ink; bottle>jar; bottle>liquid; bottle>medicine; bottle>milk; bottle>perfume; bottle>plastic; bottle>pressure; bottle>retailer; bottle>rubber; bottle>shampoo; bottle>soft drink; bottle>wine; bottle>bottom>contradiction; boundary>border; bow>elbow; bow>ribbon; bowls>archaeology; bowls>art; bowl>food; bowl>glass; bowl>metal; bowl>perfume; bowl>plastic; bowl>salad; bowl>wine; bowl>wood; box>carriage; box>circle; box>gift; box>globalization; box>leather; box>match; box>metal; box>pizza; box>plural; box>post office; box>rectangle; box>wood; boxing>fiction; boy>angel; boy>boyfriend; boy>child; boy>choir; boy>funeral; boy>furniture; boy>gender; boy>girl; boy>goat; boy>human; boy>infant; boy>insult; boy>male; boy>man; boy>nickname; boy>pizza; boy>portrait; boy>racist; boy>sex; boy>sheep; boy>slang; boy>soldier; boy>teenager; boy>toddler; boy>torch; boy>trainee; boy>youth; boyfriend>friend; boyfriend>girlfriend; boyfriend>marriage; boyfriend>wedding; bracelet>ankle; bracelet>archaeology; bracelet>boot; bracelet>cloth; bracelet>hospital; bracelet>leather; bracelet>manufacturing; bracelet>metal; bracelet>necklace; bracelet>plastic; bracelet>wood; bracket>chemistry; bracket>concentration; bracket>full stop; bracket>punctuation; bracket>synonym; brain>alcohol; brain>artificial intelligence; brain>attention; brain>digestion; brain>dog; brain>elephant; brain>evolution; brain>gene; brain>horse; brain>human; brain>insect; brain>learning; brain>medicine; brain>mind; brain>motivation; brain>philosophy; brain>psychology; brain>rat; brain>shark; brain>stroke; brake>air; brake>anchor; brake>friction; brake>heat; brake>vehicle; branch>cherry; branch>collocation; branch>metaphor; branch>oak; branch>root; branch>synonym; branch>tree; branch>walking; brand>advertising; brand>business; brand>commodity; brand>factory; brand>fashion; brand>industrialization; brand>logo; brand>luggage; brand>marketing; brand>personality; brand>radio; brand>slogan; brand>soap; brand>television; brand>tide; brass>aluminium; brass>bacteria; brass>bronze; brass>coal; brass>coin; brass>copper; brass>dice; brass>friction; brass>glass; brass>iron; brass>lead; brass>metal; brass>orchestra; brass>recycling; brass>tin; brass>trumpet; brass>turkey; brass>vine; brass>vintage; bread>baker; bread>beer; bread>biscuit; bread>bone; bread>carbon dioxide; bread>cereal; bread>curry; bread>fat; bread>flour; bread>food; bread>fruit; bread>frying pan; bread>grape; bread>meat; bread>metaphor; bread>milk; bread>money; bread>onion; bread>oven; bread>pancake; bread>paper; bread>pizza; bread>plastic; bread>protein; bread>ratio; bread>rice; bread>sandwich; bread>sausage; bread>seed; bread>soup; bread>spice; bread>sugar; bread>synonym; bread>temperature; bread>toast; bread>water; bread>vegetable; bread>wheat; bread>wine; bread>burglary; breakfast>bacon; breakfast>bun; breakfast>butter; breakfast>cereal; breakfast>cheese; breakfast>chocolate; breakfast>coffee; breakfast>ham; breakfast>honey; breakfast>jam; breakfast>lunch; breakfast>mango; breakfast>meal; breakfast>mushroom; breakfast>pancake; breakfast>sausage; breakfast>sweet; breakfast>tea; breakfast>toast; breakfast>tomato; breakfast>yogurt; breakthrough>insight; breast>beauty; breast>cancer; breast>female; breast>infant; breast>milk; breast>nose; breast>obesity; breast>pregnancy; breast>religion; breast>vein; breed>genetics; breed>genetics; breed>offspring; breed>plant; breed>population; breed>species; breeze>wind; bribe>bribery; bribery>corporation; bribery>cricket; bribery>donation; bribery>duety; bribery>funding; bribery>gambling; bribery>gift; bribery>medication; bribery>money; bribery>patient; bribery>police; bribery>policy; bribery>politician; bribery>privilege; bribery>property; bribery>referee; bribery>sponsorship; brick>chimney; brick>concrete; brick>glass; brick>inch; brick>millimetre; brick>water; brick>wood; bride>death; bride>handbag; bride>luck; bride>red; bride>spouse; bride>virgin; bridge>brick; bridge>laser; bridge>river; bridge>road; bridge>stream; bridge>suicide; bridge>tunnel; bridge>turkey; bridge>valley; broadband>music; broadband>radio; broadband>music; broadband>communications; broadband>telephone; broadband>television; broadband>video; broccoli>bacteria; broccoli>branch; broccoli>cabbage; broccoli>cancer; broccoli>virus; brochure>paper; bronze>aluminium; bronze>blade; bronze>brass; bronze>coin; bronze>copper; bronze>flag; bronze>friction; bronze>gold; bronze>guitar; bronze>hammer; bronze>iron; bronze>medal; bronze>oak; bronze>piano; bronze>plano; bronze>silver; bronze>steel; bronze>tin; bronze>toughness; brother>sibling; brother-in-law>husband; brother-in-law>sibling; brother-in-law>sister-in-law; brother-in-law>spouse; brown>autumn; brown>bear; brown>black; brown>chocolate; brown>coffee; brown>dna; brown>ink; brown>iron; brown>oak; brown>rat; brown>red; brown>skin; brown>soil; brown>stone; brown>yellow; bruise>blister; bruise>blood; bruise>blue; bruise>bone; bruise>brain; bruise>death; bruise>head; bruise>lung; bruise>muscle; bruise>nerve; bruise>pain; bruise>purple; bruise>skin; bruise>surgery; bruise>toenail; brush>artist; brush>camel; brush>comb; brush>copper; brush>goat; brush>hair; brush>ink; brush>paint; brush>painting; brush>plastic; brush>pony; brush>steel; brush>toothbrush; brush>wood; bucket>beach; bucket>bronze; bucket>expenses; budget>government; budget>income; budget>project; bug>insect; building>aircraft; building>architect; building>architecture; building>construction; building>document; building>earthquake; building>electrician; building>engineering; building>escalator; building>fire; building>funding; building>home; building>house; building>human; building>professional; building>security; building>ship; building>storey; building>structure; building>technology; building>telecommunications; building>transport; bulb>food; bulb>garlic; bulb>leaf; bulb>onion; bulb>root; bulb>camel; bulb>cattle; bulb>cow; bulb>elephant; bulb>god; bulb>male; bulb>sheep; bulb>whale; bullet>brass; bullet>copper; bullet>explosive; bullet>gas; bullet>gram; bullet>lead; bullet>riot; bullet>steel; bullet>tin; bullet>weapon; bun>bread; bun>butter; bun>flour; bun>jam; bun>milk; bun>sugar; bureaucracy>corporation; bureaucracy>transportation; bureaucracy>writing; burglary>crime; burglary>rape; burglary>theft; burglary>vandalism; burial>accident; burial>ancestor; burial>animal; burial>archaeology; burial>bacteria; burial>banana; burial>bone; burial>butcher; burial>cat; burial>cemetery; burial>child; burial>construction; burial>crime; burial>cross; burial>cultural; burial>dog; burial>earthquake; burial>elephant; burial>flour; burial>funeral; burial>infant; burial>marriage; burial>murder; burial>ocean; burial>oven; burial>pot; burial>police; burial>religion; burial>ritual; burial>starvation; burial>suicide; burial>temple; burial>terrorism; burial>tourism; bus station>barrier; bus station>bus; bus station>bus stop; bus station>wheelchair; bus stop>bus station; bus stop>dustbin; bus stop>lighting; bus stop>mobile phone; bus stop>public transport; bus>bicycle; bus>bus station; bus>bus stop; bus>camel; bus>carriage; bus>fair; bus>paint; bus>parade; bus>passenger; bus>playground; bus>police officer; bus>procession; bus>scrap; bus>sightseeing; bus>tour guide; bus>truck; bus>wheelchair; business>advertising; business>agriculture; business>bank; business>banking; business>capitalism; business>commerce; business>company; business>consumer; business>corporation; business>customer; business>economics; business>economy; business>finance; business>government; business>home; business>industry; business>insurance; business>investment; business>management; business>manufacturer; business>manufacturing; business>marketing; business>mining; business>money; business>organization; business>partnership; business>restaurant; business>retail; business>stock market; business>trade; business>transport; business>transportation; business>treaty; butcher>culture; butcher>manufacturing; butcher>nationality; butcher>retail; butcher>supermarket; butcher>vocation; butcher>cake; butcher>beef; butcher>cake; butcher>cattle; butcher>cheese; butcher>cholesterol; butcher>cookie; butcher>cooking; butcher>cream; butcher>dessert; butcher>fat; butcher>goat; butcher>herb; butcher>ice; butcher>mammal; butcher>milk; butcher>pastry; butcher>peasant; butcher>pie; butcher>potato; butcher>protein; butcher>sausage; butcher>sheep; butcher>spice; butcher>sugar; butcher>tea; butcher>teaspoon; butcher>wine; butcher>vinegar; butcher>yellow; butterfly>animal; butterfly>bee; butterfly>head; butterfly>insect; butterfly>predator; butterfly>species; butterfly>antique; butterfly>archaeology; button>brass; button>clothing; button>copper; button>drug; button>fabric; button>fashion; button>ink; button>linen; button>memorial; button>painting; button>plastic; button>sculpture; button>shirt; button>wood; buyer>asset; buyer>consideration; buyer>customer; cabbage>broccoli; cabbage>cash; cabbage>pea; cabbage>selection; cabbage>species; cabbage>tobacco; cabbage>wheat; cabin>cottage; cable>cotton; cable>fire; cable>gold; cable>rope; cable>silver; cable>tin; cable>wire; cake>anniversary; cake>birthday; cake>bread; cake>butter; cake>chocolate; cake>dessert; cake>extract; cake>flour; cake>food; cake>milk; cake>pastry; cake>pie; cake>poet; cake>strawberry; cake>sugar; cake>water; cake>wedding; calculator>calculator; calculator>computer; calculator>memory; calculator>statistics; calculator>student; calendar>ad; calendar>agriculture; calendar>business; calendar>century; calendar>cheque; calendar>clock; calendar>day; calendar>decade; calendar>family; calendar>judge; calendar>lawyer; calendar>millennium; calendar>month; calendar>night; calendar>season; calendar>sun; calendar>sunrise; calendar>sunset; calendar>tide; calendar>time; calendar>week; calendar>year; calf>abortion; calf>auction; calf>camel; calf>cattle; calf>cow; calf>dolphin; calf>elephant; calf>farming; calf>giraffe; calf>human; calf>mammal; calf>whale; calf>animal; calf>body; calf>butter; calf>ice cream; calf>immune system; calf>iron; calf>kidney; calf>mammal; calf>milk; calf>year; calf>yogurt; camera>architecture; camera>digital camera; camera>image; camera>light; camera>photograph; camera>photography; camera>video; camp>campsite; camp>campus; camp>cottage; campaign>video game; camping>air conditioning; camping>aircraft; camping>backpack; camping>bear; camping>blanket; camping>boot; camping>campsite;



camping>candle; camping>civilization; camping>climbing; camping>cold; camping>cotton; camping>electricity; camping>family; camping>fishing; camping>food;  
camping>friendship; camping>frying pan; camping>hammer; camping>heat; camping>homelessness; camping>insect; camping>raincoat; camping>recreation; camping>rope;  
camping>safety; camping>snow; camping>social networking; camping>tent; camping>toilet; camping>towel; camping>water; camping>wind; camping>woodland; camping>wool;  
campsite>camping; campsite>electricity; campsite>hotel; campsite>picnic; campsite>road; campsite>shower; campsite>tent; campsite>vehicle; campus>college; campus>hospital;  
campus>lecture; campus>library; campus>university. can>toilet; canal>agriculture; canal>bridge; canal>globalization; canal>historian; canal>infrastructure; canal>lake;  
canal>ocean; canal>river; canal>ship; canal>telecommunications; canal>transport; canal>tunnel; cancer>abortion; cancer>alcohol; cancer>aspirin; cancer>bacteria; cancer>blood;  
cancer>bone; cancer>coffee; cancer>cough; cancer>crab; cancer>diagnosis; cancer>disease; cancer>dna; cancer>evolution; cancer>fat; cancer>fever; cancer>gene;  
cancer>immune system; cancer>infection; cancer>kidney; cancer>liver; cancer>lung; cancer>mobile phone; cancer>nerve; cancer>obesity; cancer>optimism; cancer>probability;  
cancer>protein; cancer>radiation; cancer>rib; cancer>salt; cancer>smoking; cancer>sun; cancer>surgery; cancer>symptom; cancer>tobacco; cancer>vaccine; cancer>virus;  
cancer>vitamin; cancer>x-ray; candidate>award; candidate>ceremony; candidate>debate; candidate>election; candidate>law; candidate>nomination; candidate>office;  
candidate>official; candidate>white; candidate>chemical; candle>consumer; candle>fire; candle>flame; candle>fuel; candle>honey; candle>lead; candle>light; candle>oxygen;  
candle>property; candle>reach; candle>regulation; candle>religion; candle>risk; candle>safety; candle>scent; candle>standard; candle>time; candle>volume; candle>capital letter;  
capital>capitalism; capitalism>asset; capitalism>cattle; capitalism>coal; capitalism>commerce; capitalism>consumer; capitalism>corporation; capitalism>democracy;  
capitalism>economics; capitalism>factory; capitalism>globalization; capitalism>government; capitalism>history; capitalism>incentive; capitalism>inflation; capitalism>infrastructure;  
capitalism>investor; capitalism>market; capitalism>monopoly; capitalism>peasant; capitalism>policy; capitalism>recession; capitalism>slavery; capitalism>socialism;  
capitalism>subsidy; capitalism>tax; capitalism>trade; capitalism>unemployment; capitalism>well-being; captain>commander; carbon dioxide>acid; carbon dioxide>alcohol; carbon  
dioxide>atom; carbon dioxide>bacteria; carbon dioxide>beer; carbon dioxide>carbon; carbon dioxide>carbon monoxide; carbon dioxide>climate change; carbon dioxide>coffee;  
carbon dioxide>coral; carbon dioxide>energy; carbon dioxide>fuel; carbon dioxide>gas; carbon dioxide>global warming; carbon dioxide>grape; carbon dioxide>iron; carbon  
dioxide>life; carbon dioxide>light; carbon dioxide>oxygen; carbon dioxide>plant; carbon dioxide>pressure; carbon dioxide>protein; carbon dioxide>soft drink; carbon dioxide>sugar;  
carbon dioxide>water; carbon dioxide>vein; carbon dioxide>whisky; carbon dioxide>wine; carbon dioxide>volcano; carbon dioxide>volume; carbon dioxide>wood; carbon  
footprints>carbon; carbon footprint>carbon dioxide; carbon footprint>coal; carbon footprint>food; carbon footprint>global warming; carbon footprint>oil; carbon monoxide>carbon  
carbon monoxide>carbon dioxide; carbon monoxide>chemist; carbon monoxide>coal; carbon monoxide>headache; carbon monoxide>heart; carbon monoxide>iron; carbon  
monoxide>oxygen; carbon monoxide>ozone; carbon monoxide>pressure; carbon monoxide>steam; carbon monoxide>volcano; carbon>acid; carbon>alcohol; carbon>antibiotic;  
carbon>art; carbon>atmosphere; carbon>atom; carbon>brush; carbon>carbon dioxide; carbon>carbon footprint; carbon>carbon monoxide; carbon>civilization; carbon>coal;  
carbon>commodity; carbon>cotton; carbon>crystal; carbon>density; carbon>diamond; carbon>dna; carbon>drawing; carbon>earth; carbon>electricity; carbon>electronics;  
carbon>fat; carbon>fuel; carbon>glass; carbon>gold; carbon>gram; carbon>human; carbon>ink; carbon>iron; carbon>kitchen; carbon>lead; carbon>leather; carbon>linen;  
carbon>metal; carbon>oxygen; carbon>pencil; carbon>planet; carbon>plastic; carbon>protein; carbon>pyramid; carbon>rubber; carbon>second; carbon>silk; carbon>sphere;  
carbon>star; carbon>sugar; carbon>sun; carbon>window; carbon>volcano; carbon>wool; carbon>writing; carbon>x-ray; card>debit card; card>postcard; care>health care;  
career>education; career>person; career>profession; carelessness>negligence; cargo>commerce; cargo>customs; cargo>delivery; cargo>grain; cargo>machinery;  
cargo>manufacturing; cargo>meat; cargo>oil; cargo>port; cargo>produce; cargo>salt; cargo>scrap; cargo>shoe; cargo>supermarket; cargo>terrorism; cargo>toy; cargo>transport;  
cargo>truck; cargo>van; carnival>coconut; carnival>fair; carnival>mask; carnival>parade; carnival>parade; carnival>ski; carnival>witch; carpet>cloth; carpets>commerce; carpet>cotton;  
carpet>linen; carpet>mat; carpet>mug; carpet>nature; carpet>sewing; carpet>silk; carpet>turkey; carpet>wool; carriage>bride; carriage>bus; carriage>groom; carriage>horse;  
carriage>pony; carriage>sightseeing; carriage>tourism; carriage>turkey; carrots>fat; carrots>fruit; carrots>jam; carrots>onion; carrots>snack; carrots>soup; carrots>sugar;  
carrot>supermarket; cartoon>animation; cartoon>drawing; cartoon>illustration; cartoon>irony; cartoon>painting; cartoon>paper; case>bookcase; case>box; case>suitcase;  
cash>bank; cash>coin; cash>currency; cash>finance; cash>inflation; cash>money; casserole>head; casserole>beer; casserole>flour; casserole>oven; casserole>pasta; casserole>potato;  
casserole>rice; casserole>wine; cast>archaeology; cast>fantasy; cast>archaeology; castle>headquarters; castle>palace; casualty>disaster; cat>animal; cat>aspirin; cat>bird;  
cat>camel; cat>dream; cat>fur; cat>giraffe; cat>grass; cat>kitten; cat>leopard; cat>mammal; cat>paw; cat>pet; cat>rat; cat>scissors; cat>tongue; catastrophe>disaster;  
catering>business; catering>concert; catering>drink; catering>vegetarian; catering>vehicle; cathedral>earth; cathedral>heaven;  
cathedral>sculpture; cattle>agriculture; cattle>animal; cattle>beef; cattle>blood; cattle>bull; cattle>butter; cattle>calf; cattle>camel; cattle>cheese; cattle>clothing; cattle>contract;  
cattle>elephant; cattle>fence; cattle>fuel; cattle>global warming; cattle>heart; cattle>herb; cattle>horse; cattle>leather; cattle>liver; cattle>mammal; cattle>meat;  
cattle>milk; cattle>plural; cattle>shoe; cattle>species; cattle>spore; cattle>stomach; cattle>tick; cattle>transport; cattle>turkey; cattle>vegetation; cattle>whale; cattle>yogurt;  
cave>bat; cd player>cd; cd player>computer; cd player>consumer; cd player>dj; cd player>sound; cd-rom>aluminium; cd-rom>dvd; cd-rom>minute; cd-rom>plastic;  
cd-rom>second; cd-rom>software; cd-rom>video game; ceiling>cathedral; ceiling>concrete; ceiling>concrete; ceiling>system; celebration>festival; celebration>holiday; celebration>party;  
celebrity>entertainer; celebrity>fragrance; celebrity>leader; celebrity>medication; celebrity>modeling; celebrity>nightclub; celebrity>pottery; celebrity>presenter; celebrity>referee;  
celebrity>reporter; celebrity>social networking; celebrity>soft drink; celebrity>spicy; cello>mobile phone; cello>basement; cello>disco; cello>guitar; cello>hip-hop; cello>jazz;  
cello>length; cello>orchestra; cello>piano; cello>plastic; cello>steel; cello>violin; cello>volume; cemetery>angel; cemetery>brick; cemetery>burial; cemetery>concrete;  
cemetery>crime; cemetery>culture; cemetery>flower; cemetery>funeral; cemetery>grass; cemetery>lawn; cemetery>legend; cemetery>legislation; cemetery>map; cemetery>metal;  
cemetery>monument; cemetery>profession; cemetery>religion; cemetery>skeleton; cemetery>timber; cemetery>tomb; cemetery>toy; cemetery>vase; cent>century;  
centimetre>equal; centimetre>inch; centimetre>length; centimetre>litre; centimetre>metre; centimetre>millimetre; central heating>air conditioning; central heating>climate; central  
heating>dishwasher; central heating>grape; central heating>heating; central heating>pump; central heating>washing machine; century>decade; century>millennium; century>year;  
cereal>agriculture; cereal>fat; cereal>fruit; cereal>protein; cereal>rice; cereal>wheat; cereal>vitamin; ceremony>battle; ceremony>burial; ceremony>dance;  
ceremony>death; ceremony>funeral; ceremony>gift; ceremony>procession; ceremony>retirement; ceremony>ritual; ceremony>theatre; ceremony>wedding; certainty>belief;  
certainty>doubt; certainty>instinct; certainty>paradox; certainty>philosophy; certainty>uncertainty; chain>dimension; chain>liberty; chain>cushion; chair>furniture;  
chair>leather; chair>oak; chair>privacy; chair>public transport; chair>saddle; chair>seat; chair>throne; chair>wheelchair; chair>wood; champagne>carbon dioxide;  
champion>championship; champion>competition; champion>victory; championship>boxing; championship>champion; championship>sport; championship>tennis; chance>luck;  
chance>probability; chancellor>parliament; chancellor>prime minister; chancellor>solicitor; chancellor>title; change>coin; channel>canal; chapel>cathedral; chapel>college;  
chapel>hospital; chapel>place; chapel>prayer; chapel>worship; chapel>ship; chapel>church; characteristic>entity; characteristic>property; charge>debit;  
charm>charisma; chart>data; chart>diagram; chart>genetics; chart>graphics; chart>map; chart>number; chart>percentage; chart>symbol; chat>cat; chat>conversation;  
check>cheque; check>chin; check>dna; check>ear; check>face; check>individual; check>jaw; check>mammal; check>mouth; check>species; cheerfulness>happiness;  
cheese>acid; cheese>agriculture; cheese>butter; cheese>cattle; cheese>cow; cheese>fat; cheese>fortnight; cheese>garlic; cheese>goat; cheese>headache; cheese>herb;  
cheese>legend; cheese>milk; cheese>nightmare; cheese>pizza; cheese>protein; cheese>rash; cheese>sheep; cheese>spice; cheese>vinegar; cheese>world; chef>butcher;  
chef>fish; chef>kitchen; chef>meat; chef>profession; chef>salad; chef>sauce; chef>vegetable; chemist>alcohol; chemist>atom; chemist>chemistry; chemist>fire; chemist>glass;  
chemist>gold; chemist>iron; chemist>medication; chemist>pharmacist; chemist>physics; chemist>scientist; chemist>structure; chemistry>acid; chemistry>atom; chemistry>biology;  
chemistry>carbon; chemistry>carbon dioxide; chemistry>concentration; chemistry>concept; chemistry>crystal; chemistry>density; chemistry>diamond; chemistry>drug;  
chemistry>electricity; chemistry>energy; chemistry>experiment; chemistry>force; chemistry>gas; chemistry>genetics; chemistry>geology; chemistry>heat; chemistry>hypothesis;  
chemistry>iron; chemistry>laboratory; chemistry>liquid; chemistry>matter; chemistry>observation; chemistry>oxygen; chemistry>particle; chemistry>physics; chemistry>pressure;  
chemistry>solution; chemistry>structure; chemistry>temperature; chemistry>tin; chemistry>volume; cheque>cash; cheque>credit card; cheque>debit card; cheque>drawer;  
cheque>payment; cherry>flower; cherry>fruit; cherry>turkey; chess>aggression; chess>board game; chess>dice; chess>intelligence; chess>knowledge;  
chess>mobile phone; chess>perception; chess>drawers>bedroom; chess>drawers>clothing; chess>drawers>furniture; chess>drawers>mirror; chess>drawers>oak; chess>of  
drawers>underwear; chess>of drawers>wood; chess>breast; chess>cancer; chess>cough; chess>digestion; chess>heart; chess>infection; chess>kidney; chess>neck; chess>shoulder;  
chess>stomach; chess>tobacco; chess>x-ray; chewing gum>bacteria; chewing gum>bark; chewing gum>culture; chewing gum>grass; chewing gum>plant; chewing gum>rubber;  
chewing gum>stomach; chewing gum>tree; chicken>agriculture; chicken>animal; chicken>beard; chicken>beard; chicken>breed; chicken>death; chicken>devil; chicken>extinction;  
chicken>fast food; chicken>fat; chicken>feather; chicken>god; chicken>leg; chicken>lion; chicken>man; chicken>meat; chicken>pet; chicken>pig; chicken>pork; chicken>pottery;  
chicken>recipe; chicken>silk; chicken>stomach; chicken>theatre; chicken>tick; chicken>wedding; chicken>vegetarian; chicken>woman; child>abortion; child>birth; child>childhood;  
child>daughter; child>human; child>infancy; child>law; child>son; child>hood>birth; child>hood>cat; child>hood>child; child>hood>culture; child>hood>historian; child>hood>human rights;  
childhood>infant; childhood>innocence; childhood>jail; childhood>park; childhood>playground; childhood>television; childhood>toddler; childhood>violin; chill>temperature;  
chimney>castle; chimney>central heating; chimney>concrete; chimney>density; chimney>earthquake; chimney>fireplace; chimney>fuel; chimney>lead; chimney>mobile phone;  
chimney>pressure; chimney>smoke; chimney>tv; chin>elephant; chin>face; chin>speech; chip>paint; chocolate>cherry; chocolate>cholesterol; chocolate>food; chocolate>obesity;  
chocolate>sweet; choice>abortion; choice>availability; choice>convenience; choice>economy; choice>emotion; choice>feeling; choice>image; choice>nutrition; choice>preference;  
choice>tradition; choir>harmony; choir>opera; choir>orchestra; choir>piano; choir>trumpet; cholesterol>beef; cholesterol>cancer; cholesterol>cheese; cholesterol>chemical;  
cholesterol>fish; cholesterol>litre; cholesterol>liver; cholesterol>medication; cholesterol>peanut; cholesterol>pork; cholesterol>protein; cholesterol>stroke; cholesterol>suffix;  
cholesterol>thermometer; cholesterol>water; church>institution; church>religion; cigarette>blend; cigarette>brand; cigarette>cancer; cigarette>debit card; cigarette>prince;  
cigarette>smoking; cigarette>stroke; cigarette>tobacco; cigarette>turkey; circle>astronomy; circle>curve; circle>curve; circle>equation; circle>gear; circle>science; circle>shape;  
circle>sphere; circle>triangle; circle>wheel; circulation>circus; circus>bear; circus>bird; circus>clown; circus>elephant; circus>gymnastics; circus>horse; circus>television;  
city>agriculture; city>bank; city>cathedral; city>civilization; city>communication; city>county; city>crime; city>democracy; city>empire; city>employment; city>finance; city>firm;  
city>history; city>homelessness; city>house; city>industry; city>market; city>mayor; city>pollution; city>rain; city>recreation; city>religion; city>suburb; city>sunlight; city>tourist;  
city>town; city>trade; city>traffic; city>transportation; city>waste; city>village; civilian>country; civilian>crew; civilian>passenger; civilian>terrorism; civilization>agriculture;  
civilization>architecture; civilization>bureaucracy; civilization>city; civilization>climate change; civilization>complexity; civilization>culture; civilization>currency; civilization>education;  
civilization>elite; civilization>globalization; civilization>government; civilization>grain; civilization>hierarchy; civilization>law; civilization>literacy; civilization>market;  
civilization>materialism; civilization>measurement; civilization>money; civilization>ownership; civilization>priest; civilization>religion; civilization>science; civilization>society;  
civilization>sustainability; civilization>technology; civilization>trade; civilization>transportation; civilization>tribe; civilization>tribute; civilization>university; civilization>writing;  
claim>proposition; claim>right; clash>battle; class>classroom; class>lesson; classic>adjective; classic>antique; classic>masterpiece; classic>noun; classroom>biology;  
classroom>book; classroom>chart; classroom>chemistry; classroom>daylight; classroom>desk; classroom>furniture; classroom>gym; classroom>learning; classroom>lecture;  
classroom>map; classroom>physics; classroom>room; classroom>teacher; classroom>teaching; classroom>tv; classroom>university; clause>gerund; clause>grammar;  
clause>proposition; clause>verb; cleaner>bucket; cleaner>payment; cleaner>towel; cliché>cartoon; cliché>fact; cliché>idiom; cliché>stereotype; click>animation; client>customer;  
cliff>channel; cliff>climbing; cliff>coast; cliff>earth; cliff>erosion; cliff>geography; cliff>geology; cliff>mountain; cliff>river; cliff>soil; cliff>waterfall; climate change>cloud; climate  
change>energy; climate change>fish; climate change>global warming; climate change>island; climate change>satellite; climate change>sun; climate change>sunlight; climate  
change>weather; climate change>vegetation; climate change>volcano; climate>atmosphere; climate>carbon dioxide; climate>climate change; climate>continent; climate>desert;  
climate>earth; climate>global warming; climate>history; climate>ice; climate>landscape; climate>mammal; climate>ocean; climate>planet; climate>storm; climate>sun;  
climate>temperature; climate>thermometer; climate>thunderstorm; climate>weather; climate>wind; climate>world; clinic>abortion; clinic>hospital; clinic>surgery; clinic>x-ray;  
clock>alarm clock; clock>atom; clock>blindness; clock>central heating; clock>counter; clock>day; clock>earthquake; clock>electronics; clock>energy; clock>feedback; clock>friction;  
clock>gear; clock>hour; clock>invention; clock>minute; clock>mobile phone; clock>mp3 player; clock>sand; clock>second; clock>time; clock>watch; clock>year; clothes>clothing;  
clothing>bandage; clothing>button; clothing>cap; clothing>carpet; clothing>climate; clothing>culture; clothing>diving; clothing>fashion; clothing>fur; clothing>gender;  
clothing>globalization; clothing>glove; clothing>gymnastics; clothing>handbag; clothing>hat; clothing>hygiene; clothing>infant; clothing>insect; clothing>ironing; clothing>jeans;  
clothing>laundry; clothing>leather; clothing>painting; clothing>paper; clothing>peer pressure; clothing>photo; clothing>professional; clothing>religion; clothing>shirt; clothing>shorts;

clothing>skiing; clothing>skirt; clothing>surfing; clothing>sweater; clothing>television; clothing>tracksuit; clothing>trousers; clothing>t-shirt; clothing>washing machine;  
clothing>weather; clothing>whale; clothing>wind; clothing>winter; clothing>yellow; cloud>atmosphere; cloud>bacteria; cloud>chemical; cloud>climate; cloud>crystal; cloud>energy;  
cloud>evolution; cloud>feedback; cloud>fog; cloud>global warming; cloud>habitat; cloud>hall; cloud>light; cloud>liquid; cloud>mist; cloud>mountain; cloud>planet;  
cloud>rain; cloud>salt; cloud>snow; cloud>stable; cloud>summer; cloud>sun; cloud>symbol; cloud>temperature; cloud>thunderstorm; cloud>tornado; cloud>water; cloud>weather;  
cloud>winter; clown>comedy; clown>donkey; clown>elephant; clown>horse; clown>orchestra; clown>performer; clown>priest; clown>psychology; clown>zebra; club>basketball;  
club>boxing; club>exercise; club>golf; club>gym; club>secondary school; clue>evidence; clutch>air conditioning; clutch>cable; clutch>friction; clutch>machine; clutch>pressure;  
coach>coaching; coaching>career; coaching>consultant; coaching>consumer; coaching>discussion; coaching>fashion; coaching>inquiry; coaching>leadership; coaching>marriage;  
coaching>psychology; coaching>recreation; coal>carbon; coal>carbon dioxide; coal>carbon monoxide; coal>climate change; coal>funeral; coal>global warming; coal>iron;  
coal>oxygen; coal>pressure; coal>steam; coal>steel; coal>world; coast>animal; coast>bay; coast>beach; coast>canal; coast>circle; coast>cliff; coast>climate change; coast>coral;  
coast>dolphin; coast>erosion; coast>fishing; coast>flood; coast>house; coast>infrastructure; coast>insect; coast>island; coast>lake; coast>navy; coast>ocean; coast>plant;  
coast>pond; coast>port; coast>river; coast>salt; coast>sea; coast>shore; coast>solution; coast>surfing; coast>tide; coast>transport; coast>wave; coast>weather; coastline>coast;  
coat>paint; coat>skin; coconut>butterfly; coconut>carpet; coconut>flower; coconut>fruit; coconut>ghost; coconut>soap; coconut>seed; coconut>theatre;  
coconut>witch; cod>beard; cod>crab; cod>export; cod>food; cod>heart; cod>species; cod>worm; code>biology; code>bit; code>chess; code>communication; code>computer;  
code>data; code>dna; code>gesture; code>information; code>journalism; code>language; code>length; code>marketing; code>music; code>phrase; code>sign; code>word;  
coffee>climate change; coffee>corn; coffee>headache; coffee>illness; coffee>liver; coffee>milk; coffee>rice; coffee>shade; coffee>sugar; coffee>tea; coffee>turkey; coffee>wine;  
coffee>worm; coin>copper; coin>currency; coin>deer; coin>dice; coin>euro; coin>exchange rate; coin>gold; coin>inflation; coin>money; coin>penny; coin>silver; coincidence>earth;  
coincidence>genius; coincidence>paradox; coincidence>probability; coincidence>science; coincidence>statistics; coincidence>sun; cola>lemon; cola>pharmacist; cola>soft drink;  
cold>air; cold>atmosphere; cold>earth; cold>energy; cold>freezer; cold>frost; cold>heat; cold>ice; cold>ice cream; cold>iceberg; cold>mammal; cold>physics;  
cold>radiation; cold>snow; cold>sun; cold>temperature; cold>winter; coldness>cold; collaboration>ballet; collaboration>blog; collaboration>business; collaboration>community;  
collaboration>computer; collaboration>cooperation; collaboration>industry; collaboration>leadership; collaboration>medicine; collaboration>organization; collaboration>partnership;  
collaboration>piano; collaboration>socialism; collaboration>trade; collaboration>villain; collar>arrest; collar>slave; college>law; college>secondary school; college>university;  
colleges>vocation; collocation>cliché; collocation>grammar; collocation>idiom; collocation>phrasal verb; column>arch; column>architecture; column>relief; comb>hair;  
comb>metaphor; comb>perfume; comb>police; comb>tool; combat>assault; combat>kick; combat>knife; combat>law; combat>sword; combat>synonym; combat>war;  
combat>weapon; combat>violence; combination>probability; comeback>politics; comedian>comedy; comedian>humour; comedian>joke; comedian>laughter; comedy>clown;  
comedy>evil; comedy>film; comedy>humour; comedy>irony; comedy>laughter; comedy>literature; comedy>television; comedy>theatre; comedy>tragedy; comedy>word;  
comfort>health care; comfort>memory; comfort>pain; comfort>pleasure; comfort>suffering; comma>apostrophe; comma>clause; comma>full stop; comma>grammar;  
comma>punctuation; comma>semicolon; commander>army; commander>inspector; commerce>advertising; commerce>agriculture; commerce>business; commerce>capitalism;  
commerce>cargo; commerce>coin; commerce>communication; commerce>corporation; commerce>currency; commerce>economics; commerce>export; commerce>fair;  
commerce>finance; commerce>globalization; commerce>gold; commerce>harvest; commerce>import; commerce>industry; commerce>manufacturing; commerce>market;  
commerce>marketing; commerce>money; commerce>trade; commercial>advertising; commercial>commerce; commercial>trade; commitment>brand; commitment>contract;  
commitment>promise; committee>research; committee>secretary; commodity>agriculture; commodity>brand; commodity>coal; commodity>coffee; commodity>copper;  
commodity>economics; commodity>gold; commodity>inflation; commodity>market; commodity>mining; commodity>price; commodity>rice; commodity>salt; commodity>silver;  
commodity>sugar; commodity>wheat; commodity>trade; common sense>artificial intelligence; common sense>idea; common sense>logic; common sense>philosopher;  
common sense>relevance; common sense>wisdom; communication>architecture; communication>bacteria; communication>clothing;  
communication>collaboration; communication>conversation; communication>cooperation; communication>dialect; communication>diary; communication>feedback;  
communication>gesture; communication>grammar; communication>human; communication>information; communication>jargon; communication>message; communication>name;  
communication>noise; communication>plant; communication>rhythm; communication>soil; communication>sound; communication>symbol; communication>system;  
communication>writing; community>archaeology; community>belief; community>biology; community>city; community>communication; community>competition;  
community>construction; community>content; community>culture; community>disability; community>ecology; community>economics; community>family; community>festival;  
community>home; community>human; community>individual; community>intensity; community>intention; community>life; community>nation; community>neighbourhood;  
community>office; community>politics; community>preference; community>risk; community>role; community>selfishness; community>suburb; community>town; community>village;  
companion>friendship; company>bank; company>corporation; company>desire; company>duty; company>firm; company>goal; company>law; company>partnership;  
company>person; company>policy; company>resource; company>skill; comparative>advertising; comparative>suburb; comparative>superlative; competence>skill;  
competition>adaptation; competition>award; competition>baseball; competition>basketball; competition>biology; competition>brand; competition>budget; competition>celebrity;  
competition>championship; competition>civilization; competition>consumer; competition>cooperation; competition>cost; competition>country; competition>cricket;  
competition>culture; competition>democracy; competition>diving; competition>ecology; competition>election; competition>evolution; competition>extinction; competition>fishing;  
competition>food; competition>football; competition>funding; competition>government; competition>gymnastics; competition>income; competition>investor; competition>law;  
competition>monopoly; competition>nationality; competition>nature; competition>philosopher; competition>politics; competition>pride; competition>psychologist;  
competition>psychology; competition>recreation; competition>self-esteem; competition>sunlight; competition>tax; competition>tennis; competition>war; competition>water;  
competition>wealth; competitor>competition; complaint>birthday; complaint>definition; complaint>lawyer; complex>building; complex>complexity; complex>ion; complex>biology;  
complexion>dna; complexion>fluid; complexion>racism; complexion>skin; complexion>therapy; complexity>biology; complexity>dimension; complexity>economics;  
complexity>feedback; complexity>observation; complexity>probability; complexity>property; complexity>science; complexity>simplicity; complexity>simulation; complexity>stock  
market; complexity>system; complexity>technology; component>ingredient; component>system; composer>arrangement; composer>jazz; composer>music; composer>musician;  
composer>performance; composer>performer; composer>song; compromise>acceptance; compromise>argument; compromise>communication; compromise>constitution;  
compromise>demand; computer>artificial intelligence; computer>bit; computer>bus; computer>calculator; computer>calculator; computer>electronics; computer>icon;  
computer>laptop; computer>microphone; computer>programmer; computer>spreadsheet; computer>washing machine; computer>webcam; computer>video game; computer>wire;  
concentration>chemistry; concentration>solution; concept>idea; concept>learning; concept>logic; concept>man; concept>memory; concept>philosophy; concept>psychology;  
concept>skill; conception>concept; concern>worry; concert>audience; concert>choir; concert>dancing; concert>house; concert>jazz; concert>music; concert>musician;  
concert>nightclub; concert>orchestra; concert>performance; concert>rehearsal; concert>singer; concert>stadium; conclusion>result; concrete>arch; concrete>boat;  
concrete>carbon dioxide; concrete>chemistry; concrete>construction; concrete>fence; concrete>parking; concrete>sand; concrete>sugar; concrete>water; conference>meeting;  
confession>ritual; confession>sin; confidence>faith; confidence>police; confidence>security; confidence>self-confidence; confidence>shyness; confidence>synonym;  
confirmation>faith; confirmation>prayer; confirmation>priest; confirmation>saint; conscience>abortion; conscience>advertising; conscience>aggression; conscience>animal;  
conscience>artificial intelligence; conscience>authority; conscience>bird; conscience>brain; conscience>carbon footprint; conscience>chess; conscience>climate change;  
conscience>consciousness; conscience>consumer; conscience>contempt; conscience>culture; conscience>democracy; conscience>dignity; conscience>earth;  
conscience>ecology; conscience>evil; conscience>famine; conscience>fear; conscience>generosity; conscience>genetics; conscience>god; conscience>human rights;  
conscience>integrity; conscience>intellect; conscience>intelligence; conscience>justice; conscience>legislation; conscience>materialism; conscience>matter; conscience>mind;  
conscience>murder; conscience>parliament; conscience>philosophy; conscience>physics; conscience>politics; conscience>pride; conscience>propaganda;  
conscience>psychology; conscience>racism; conscience>reason; conscience>religion; conscience>remorse; conscience>self-awareness; conscience>shame; conscience>sin;  
conscience>society; conscience>sustainability; conscience>torture; conscience>truth; conscience>war; conscience>violence; consciousness>adaptation; consciousness>artificial  
intelligence; consciousness>awareness; consciousness>computer; consciousness>conscience; consciousness>dream; consciousness>experience; consciousness>explanation;  
consciousness>feeling; consciousness>information; consciousness>knowledge; consciousness>language; consciousness>medicine; consciousness>memory; consciousness>mind;  
consciousness>perception; consciousness>philosophy; consciousness>psychology; consciousness>robot; consciousness>self; consciousness>self-awareness;  
consciousness>sleep; consciousness>stroke; consciousness>validity; consent>crime; consent>excuse; consent>rape; consent>signature; consequence>punishment;  
conservation>sustainability; consideration>contract; consideration>legislation; consonant>alphabet; consonant>syllable; consonant>symbol; consonant>vowel;  
constitution>democracy; constitution>human rights; constitution>institution; constitution>liberty; constitution>parliament; constitution>precedent; constitution>president;  
constitution>prime minister; constitution>referendum; constitution>revolution; constitution>treaty; construction>accountant; construction>architect; construction>architecture;  
construction>budget; construction>building; construction>career; construction>consultant; construction>contract; construction>craft; construction>drawing; construction>electrician;  
construction>engineer; construction>fraud; construction>infrastructure; construction>planning; construction>plumber; construction>profession; construction>project;  
construction>supervisor; construction>vocation; consultant>engineering; consultant>finance; consultant>law; consultant>management; consultant>marketing;  
consultant>professional; consultant>surgery; consumer>business; consumer>commodity; consumer>household; consumer>individuality; consumer>marketing;  
consumption>consumer; container>bottle; container>box; container>jar; container>pottery; contempt>anger; contempt>disgust; contempt>prostitute; contempt>resentment;  
contents>content; contest>competition; contestants>celebrity; contestants>competition; contestant>professional; contestants>television; continent>earth; continent>geology;  
continent>island; continent>ocean; continent>volcano; contract>commerce; contract>consideration; contract>country; contract>court; contract>employment; contract>fraud;  
contract>legislation; contract>negotiation; contract>pact; contract>patient; contract>promise; contract>theatre; contradiction>belief; contradiction>capitalism; contradiction>irony;  
contradiction>paradox; contradiction>proposition; contradiction>socialism; contradiction>system; contradiction>truth; contribution>donation; contribution>payment;  
contribution>publication; control>self-control; controversy>argument; controversy>celebrity; controversy>climate change; controversy>crime; controversy>culture;  
controversy>economics; controversy>education; controversy>finance; controversy>gender; controversy>global warming; controversy>history; controversy>information;  
controversy>opinion; controversy>organization; controversy>philosophy; controversy>politics; controversy>religion; controversy>science; controversy>science fiction;  
controversy>sex; controversy>society; convenience>consumer; convenience>electricity; convenience>energy; convenience>frustration; convenience>money; convenience>petrol;  
convenience>technology; convenience>time; convention>treaty; conversation>communication; conversation>criticism; conversation>dialogue; conversation>gossip;  
conversation>humour; conversion>exchange rate; conviction>appeal; conviction>crime; conviction>law; conviction>punishment; conviction>verdict; cook>cooking; cookie>biscuit;  
cookie>bun; cookie>butter; cookie>cake; cookie>carbon dioxide; cookie>chocolate; cookie>fat; cookie>flour; cookie>fruit; cookie>jam; cookie>milk; cookie>pastry; cookie>sandwich;  
cookie>spice; cookie>sugar; cooking>bacon; cooking>bakery; cooking>barbecue; cooking>berry; cooking>broccoli; cooking>carbon; cooking>cereal; cooking>corn; cooking>food;  
cooking>frying pan; cooking>meal; cooking>muscle; cooking>nutrition; cooking>olive; cooking>pottery; cooking>protein; cooking>recipe; cooking>sausage; cooking>seed;  
cooking>spice; cooking>spinach; cooking>wine; cooperation>collaboration; cooperation>emotion; cooperation>language; cooperation>teamwork; copper>aluminium; copper>brass;  
copper>bronze; copper>carbon monoxide; copper>dna; copper>door; copper>electronics; copper>glass; copper>gold; copper>mining; copper>silver; copper>telecommunications;  
copper>tin; copper>toilet; coral>animal; coral>canal; coral>carbon dioxide; coral>fish; coral>geology; coral>ocean; coral>pollution; coral>species; coral>tide; coral>seed;  
corporation>business; corporation>company; corporation>contract; corporation>crime; corporation>employment; corporation>fraud; corporation>human rights;  
corporation>partnership; corporation>spice; correction>punishment; corridor>hall; corruption>blackmail; corruption>bribe; corruption>bribery; corruption>budget;  
corruption>discretion; corruption>fraud; corruption>liability; corruption>organization; corruption>philosophy; corruption>theft; cost>advertising; cost>business; cost>economics;  
cost>expense; cost>manufacturing; cost>money; cost>paradigm; cost>personnel; cost>price; cost>research; cost>retail; costume>beard; costume>clothing; costume>exile;  
costume>performance; costume>picture; costume>poem; costume>statue; costume>theatre; cottage>acre; cottage>fishing; cottage>mining; cottage>sailing; cotton>bacteria;  
cotton>denim; cotton>export; cotton>frost; cotton>import; cotton>jeans; cotton>protein; cotton>soil; cotton>subsidy; cotton>tent; cotton>t-shirt; cotton>underwear; cotton>water;  
cotton>wool; cough>bacteria; cough>insomnia; cough>lung; cough>smoking; cough>virus; council>city; council>committee; council>county; council>government; council>town;  
count>county; count>language; count>pair; count>palace; counter>electronics; counter>ratio; country>count; country>indefinite article; country>nation; country>synonym;

county-burial; county-city; county-count; county-country; county-hospital; county-magistrate; county-province; county-region; county-tax; county-town; county-village;  
courage-fear; courage-hero; courage-lion; courage-love; courage-pain; courage-psychology; courage-religion; courage-risk; courage-scandal; courage-shame;  
courage-uncertainty; courage-virtue; course-main course; court-appeal; court-authority; court-constitution; court-government; court-institution; court-judge; court-law;  
court-lawyer; court-trial; courtesies-conversation; courtesies-elegance; courtesies-intellectual; courtesies-kindness; courtesies-politeness; cousin-family; cousin-generation;  
cousin-grandparent; cousin-parent; cousin-sibling; cow-cattle; coverage-insurance; coverage-news; crab-animal; crab-bacteria; crab-predator; crab-shore; crab-species;  
crab-tail; crab-tide; crab-worm; crackdown-cartoon; crackdown-police; crackdown-video game; craft-agriculture; craft-customer; craft-education; craft-fair; craft-glass;  
craft-industry; craft-material; craft-metal; craft-paper; craft-profession; craft-professional; craft-relief; craft-science; craft-skill; craft-trade; craft-tradition; craft-vocation;  
craft-work; craft-workshop; crash-linen; crash-sleep; cream-air; cream-bacteria; cream-butter; cream-cattle; cream-cheese; cream-coffee; cream-honey; cream-ice cream;  
cream-milk; cream-plant; cream-sauce; cream-soup; cream-wine; creation-art; creation-invention; creativity-analogy; creativity-architecture; creativity-art; creativity-artificial  
intelligence; creativity-collaboration; creativity-design; creativity-economics; creativity-economist; creativity-education; creativity-engineering; creativity-evolution;  
creativity-existence; creativity-fair; creativity-genius; creativity-greatness; creativity-imagination; creativity-innovation; creativity-insight; creativity-intelligence; creativity-invention;  
creativity-language; creativity-literature; creativity-metaphor; creativity-music; creativity-philosophy; creativity-psychology; creativity-resource; creativity-revelation;  
creativity-science; creativity-supervisor; creativity-technology; creativity-theory; creativity-threat; creativity-wealth; creature-life; credibility-integrity; credibility-witness; credit  
card-cash; credit card-check; credit card-college; credit card-consumer; credit card-debit card; credit card-debt; credit card-electronics; credit card-expense; credit card-forgery;  
credit card-fuel; credit card-interest; credit card-metal; credit card-payment; credit card-receipt; credit card-signature; credit card-tax; credit card-tuition; credit-credibility;  
crew-airline; crew-hierarchy; crew-sport; crew-team; cricket-baseball; cricket-hockey; cricket-lawn; crime-abortion; crime-alcohol; crime-arrest; crime-assault; crime-civilization;  
crime-commerce; crime-consensus; crime-country; crime-creativity; crime-crisis; crime-culture; crime-definition; crime-economics; crime-employer; crime-employment;  
crime-family; crime-fear; crime-gambling; crime-government; crime-imprisonment; crime-justice; crime-king; crime-law; crime-liberty; crime-murder; crime-paradox;  
crime-payment; crime-police; crime-politics; crime-population; crime-psychology; crime-punishment; crime-rape; crime-reason; crime-religion; crime-revenge; crime-robbery;  
crime-sin; crime-slavery; crime-society; crime-statistics; crime-theft; crime-treaty; crime-trial; crime-war; crime-war; crime-war; crime-war; crime-war; crime-war; crime-war; crime-war;  
crisis-earthquake; crisis-hazard; crisis-health; crisis-homelessness; crisis-probability; crisis-recession; crisis-revolution; crisis-security; crisis-self-esteem; crisis-species;  
crisis-threat; crisis-war; critic-analysis; critic-complaint; critic-review; criticism-ambiguity; criticism-authority; criticism-complaint; criticism-controversy; criticism-criminal;  
criticism-critic; criticism-critic; criticism-hypocrisy; criticism-noun; criticism-prejudice; criticism-protest; criticism-self-esteem; criticism-terrorist; criticism-verb;  
crocodile-aggression; crocodile-bird; crocodile-bite; crocodile-carbon dioxide; crocodile-cold; crocodile-deer; crocodile-dinosaur; crocodile-dna; crocodile-ecology;  
crocodile-evolution; crocodile-extinction; crocodile-fish; crocodile-foot; crocodile-handbag; crocodile-heart; crocodile-helicopter; crocodile-hierarchy; crocodile-lake;  
crocodile-mammal; crocodile-measurement; crocodile-muscle; crocodile-nest; crocodile-nostril; crocodile-predator; crocodile-reproduction; crocodile-reptile; crocodile-river;  
crocodile-shark; crocodile-skull; crocodile-tongue; crocodile-agriculture; crop-animal; crop-bacteria; crop-clothing; crop-cotton; crop-farming; crop-food;  
crop-harvest; crop-human; crop-milk; crop-mushroom; crop-pet; crop-plant; crop-potato; crop-rice; crop-species; crop-wheat; crop-virus; crop-yogurt; cross-addition;  
cross-anchor; cross-era; cross-firefighter; cross-fork; cross-life; cross-world; crowd-bird; crowd-shopping; cruelty-divorce; cruelty-law; cruelty-pleasure; cruelty-punishment;  
cruelty-suffering; cruelty-torture; cruelty-violence; crystal-atom; crystal-carbon; crystal-diamond; crystal-glass; crystal-ice; crystal-liquid; crystal-metal; crystal-salt; crystal-snow;  
crystals-temperature; cucumber-agriculture; cucumber-bean; cucumber-plant; cucumber-spice; cucumber-turkey; cucumber-vegetable; cucumber-vinegar; cultivation-spirit;  
culture-agriculture; culture-archaeology; culture-architecture; culture-art; culture-capitalism; culture-child; culture-civilization; culture-commerce; culture-communication;  
culture-cow; culture-dialect; culture-education; culture-elite; culture-evolution; culture-experience; culture-fashion; culture-festival; culture-film; culture-gender;  
culture-globalization; culture-history; culture-holiday; culture-human; culture-language; culture-literature; culture-mother; culture-music; culture-myth; culture-nationality;  
culture-perfection; culture-philosophy; culture-photography; culture-psychology; culture-religion; culture-ritual; culture-society; culture-statistics; culture-symbol;  
culture-technology; culture-tool; culture-tradition; cup-trophy; cupboard-central heating; cupboard-dirt; cupboard-dust; cupboard-food; cupboard-linen; cupboard-towel;  
cupboard-wood; cure-cancer; cure-disease; cure-medication; cure-surgery; cure-symptom; cure-therapy; curiosity-animal; curiosity-attention; curiosity-cat; curiosity-death;  
curiosity-emotion; curiosity-exploration; curiosity-happiness; curiosity-inflamy; curiosity-inflamy; curiosity-inflamy; curiosity-inflamy; curiosity-inflamy; curiosity-inflamy; curiosity-inflamy;  
curiosity-violence; currency-bank; currency-banking; currency-cash; currency-check; currency-coin; currency-copper; currency-debt; currency-dollar; currency-euro;  
currency-exchange rate; currency-inflation; currency-loan; currency-money; currency-monopoly; currency-receipt; currency-stock; curriculum-adult;  
curriculum-child; curriculum-college; curriculum-definition; curriculum-education; curriculum-idea; curriculum-knowledge; curriculum-lesson; curriculum-reality; curriculum-school;  
curriculum-society; curriculum-syllabus; curriculum-teaching; curriculum-university; curry-apple; curry-banana; curry-beef; curry-bread; curry-carrot; curry-coconut;  
curry-cream; curry-dinner; curry-garlic; curry-herb; curry-honey; curry-lunch; curry-onion; curry-pork; curry-potato; curry-rice; curry-spice; curry-tuna; curry-vegetable;  
curry-vegetarian; curry-wheat; curry-wine; curry-yogurt; curtain-button; curtain-cloth; curtain-department store; curtain-door; curtain-fabric; curtain-knot; curtain-light;  
curtain-night; curtain-retail; curtain-rope; curtain-rubber; curtain-sleep; curtain-theatre; curtain-water; curtain-window; curve-astronomy; cushion-carpet; cushion-chair;  
cushion-fashion; cushion-feather; cushion-furniture; cushion-grass; cushion-leather; cushion-palace; cushion-paper; cushion-pillow; cushion-soil; cushion-wood;  
custom-customs; custom-tradition; customer-consumer; customer-employee; customer-marketing; customer-seller; customs-authority; customs-export; customs-hazard;  
customs-port; customs-tax; cut-wound; cutlery-camping; cutlery-fast food; cutlery-food; cutlery-fork; cutlery-knife; cutlery-plastic; cutlery-razor; cutlery-spoon; cutlery-steel;  
cutlery-sword; cutlery-tool; cv-syllable; cycle-bicycle; cycling-bicycle; cycling-carbon dioxide; cycling-clity; cycling-mail; cycling-obesity; cycling-recreation; cycling-sport;  
cycling-transport; cyclist-cycling; dad-father; damage-injury; dance-animal; dance-audience; dance-ballet; dance-ceremony; dance-civilization; dance-culture; dance-disco;  
dance-entertainment; dance-exercise; dance-gesture; dance-gymnastics; dance-hip-hop; dance-history; dance-individuality; dance-knowledge; dance-music; dance-narrative;  
dance-performance; dance-professional; dance-rainforest; dance-rhythm; dance-ritual; dance-scholar; dance-society; dance-symbol; dance-vocabulary; dance-dance;  
dancing-dance; danger-risk; darkness-black; darkness-energy; darkness-shadow; dash-dialogue; dash-dictionary; dash-full stop; dash-hyphen; dash-prefix; dash-punctuation;  
data-alphabet; data-computer; data-database; data-engineering; data-geography; data-image; data-information; data-knowledge; data-measurement; data-number; data-sign;  
data-statistics; database-acid; database-availability; database-data; database-economy; database-email; database-information; database-knowledge; database-library; database-market;  
database-raid; database-security; database-spreadsheet; daughter-female; daughter-girl; daughter-offspring; daughter-parent; daughter-son; daughter-woman; dawn-horizon;  
dawn-morning; dawn-noon; dawn-pie; dawn-sky; dawn-sun; dawn-sunrise; dawn-sunset; day-astronomy; day-aton; day-calendar; day-daylight; day-deer; day-evening;  
day-holiday; day-horizon; day-hour; day-midnight; day-morning; day-night; day-noon; day-public transport; day-rabbit; day-season; day-second; day-star; day-sun;  
day-sunlight; day-sunrise; day-sunset; day-tide; day-time; day-water; day-week; day-year; daylight-earth; daylight-energy; daylight-moonlight; daylight-noon; daylight-pain;  
daylight-sun; daylight-sunlight; daylight-sunrise; daylight-sunset; daylight-window; deal-contract; death-accident; death-adaptation; death-animal; death-breath; death-burial;  
death-cancer; death-coal; death-consciousness; death-disease; death-evolution; death-examination; death-exercise; death-extinction; death-funeral; death-gene; death-heart;  
death-human; death-inheritance; death-injury; death-life; death-longevity; death-medicine; death-murder; death-nerve; death-obesity; death-oxygen; death-philosophy;  
death-predator; death-scenario; death-science; death-science fiction; death-skeleton; death-stroke; death-suicide; death-time; death-tobacco; debate-argument;  
debate-audience; debate-controversy; debate-conversation; debate-election; debate-entertainment; debate-judge; debate-law; debate-majority; debate-parliament;  
debate-president; debate-prime minister; debate-proposition; debate-team; debate-vote; debit card-bank account; debit card-cash; debit card-check; debit card-credit card;  
debit card-euro; debit card-logo; debit card-plastic; debit card-retailer; debit card-signature; debit card-travel agent; debt-asset; debt-banking; debt-company; debt-corporation;  
debt-credit card; debt-currency; debt-economist; debt-finance; debt-government; debt-inflation; debt-interest; debt-investment; debt-loan; debt-metaphor; debt-money;  
debt-payment; debt-property; debt-risk; debt-saving; debt-stock; debt-time; debt-year; decade-century; decade-millennium; decade-year; december-day; december-length;  
december-month; december-year; deception-anger; deception-criticism; deception-embarrassment; deception-experiment; deception-forgery; deception-fraud; deception-ink;  
deception-lie; deception-propaganda; deception-psychology; deception-reality; deception-self-esteem; deception-sound; deception-truth; decision-judgment; deck-bus;  
deck-floor; deck-storey; deck-swimming pool; decline-culture; decoration-beauty; dedication-chapel; dedication-icon; dedication-temple; deer-adjective; deer-animal; deer-calf;  
deer-cattle; deer-dna; deer-fruit; deer-leaf; deer-liver; deer-mammal; deer-predator; deer-salmon; deer-stomach; deer-turkey; defeat-failure; defeat-victory;  
deficiency-construction; definition-phrase; definition-prime minister; definition-rectangle; definition-symbol; definition-triangle; definition-word; degree-comparative;  
degree-superlative; delegation-leadership; delegation-management; delight-happiness; demand-glasses; demand-recession; democracy-consensus; democracy-constitution;  
democracy-corporation; democracy-human rights; democracy-intelligence; democracy-law; democracy-organization; democracy-president; democracy-prime minister;  
democracy-referendum; democracy-republic; democracy-revolution; democracy-socialism; democracy-wealth; denial-attention; denial-bias; denial-death; denial-emotion;  
denial-evidence; denial-harassment; denial-lie; denial-rape; denial-reality; denial-research; denial-truth; denim-boot; denim-cotton; denim-documentary; denim-dress;  
denim-hat; denim-jacket; denim-jeans; denim-shirt; denim-shoe; denim-shorts; density-air; density-aluminium; density-copper; density-diamond; density-earth;  
density-gold; density-gram; density-ice; density-iron; density-kilogram; density-lead; density-liquid; density-pressure; density-silver; density-solution; density-sun;  
density-temperature; density-tin; density-water; density-weight; density-volume; density-wood; dentist-antibiotic; dentist-mouth; deodorant-alcohol; deodorant-aluminium;  
deodorant-bacteria; deodorant-dna; deodorant-inventor; deodorant-irritation; deodorant-perfume; deodorant-perfume; department store-escalator; department store-escalator;  
department store-marketing; department store-redevelopment; department store-retail; department-store; department-store; department-store; department-store; department-store;  
deprivation-liberty; deprivation-poverty; deprivation-starvation; descendant-ancestor; descendant-hierarchy; description-cliché; description-definition; description-fiction;  
description-imagination; description-narrative; description-relevance; description-sentiment; desert-ant; desert-camel; desert-carbon dioxide; desert-cattle; desert-continent;  
desert-copper; desert-drought; desert-earth; desert-explosive; desert-fly; desert-fog; desert-goat; desert-gold; desert-ice; desert-iron; desert-lake; desert-landscape;  
desert-mammal; desert-rain; desert-region; desert-reptile; desert-salt; desert-science fiction; desert-sheep; desert-silver; desert-slime; desert-snow; desert-spider; desert-sun;  
desert-sunlight; desert-temperature; desert-turkey; design-analysis; design-architect; design-architecture; design-clothing; design-construction; design-creativity;  
design-definition; design-designer; design-document; design-emotion; design-engineering; design-evaluation; design-fashion; design-goal; design-implementation;  
design-management; design-manufacturing; design-pottery; design-presentation; design-requirement; design-research; design-science; design-specification; design-thought;  
designer-architect; designer-architecture; designer-clothing; designer-design; designer-engineering; designer-furniture; designer-painting; designer-profession;  
designer-sculpture; design-marketing; desk-book; desk-bookmark; desk-computer; desk-document; desk-furniture; desk-office; desk-pen; desk-steel; desk-wood; desk-writing;  
desktop-desk; desperation-panic; dessert-biscuit; dessert-cake; dessert-cookie; dessert-fat; dessert-fruit; dessert-fruit; dessert-fruit; dessert-honey; dessert-ice cream; dessert-jam;  
dessert-pastry; dessert-pie; dessert-pudding; dessert-sugar; destination-travel; destiny-art; destiny-luck; destiny-philosophy; destiny-proposition; detail-complexity;  
detective-burglary; detective-civilian; detective-criminal; detective-crime; detective-fiction; detective-fraud; detective-inspector; detective-police; detective-robbery;  
determination-decision; determination-determiner; determination-measurement; determiner-adjective; determiner-grammar; determiner-noun; determiner-phrase;  
determiner-reference; determiner-word; device-gadget; device-machine; device-tool; devil-angel; devil-beauty; devil-culture; devil-evil; devil-goat; devil-god; devil-hell;  
devil-judge; devil-legend; devil-pig; devil-prosecutor; devil-religion; devil-sheep; devil-sin; devil-wisdom; diagnosis-experience; diagram-architect; diagram-arrow;  
diagram-chart; diagram-engineering; diagram-grammar; diagram-graphics; diagram-illustration; diagram-information; diagram-map; diagram-synonym; dialect-elite;  
dialect-jargon; dialect-language; dialect-slang; dialect-vocabulary; dialogue-conversation; dialogue-god; dialogue-language; dialogue-literature; dialogue-narrative;  
dialogue-philosophy; diamond-carbon; diamond-carbon dioxide; diamond-crystal; diamond-earth; diamond-electronics; diamond-ice; diamond-icon; diamond-laser;  
diamond-oxygen; diamond-toughness; diamond-window; diamonds-x-ray; diary-biography; diary-blog; diary-fiction; diary-witness; dice-board game; dice-density; dice-gambling;  
dice-horse; dice-museum; dice-plastic; dice-plural; dice-singular; dice-sphere; dictionary-computer; dictionary-concept; dictionary-definition; dictionary-idiom;  
dictionary-metaphor; dictionary-problem; digestion-acid; digestion-alcohol; digestion-animal; digestion-bacteria; digestion-bird; digestion-blood; digestion-cat;  
digestion-cheese; digestion-cow; digestion-fat; digestion-food; digestion-liver; digestion-mammal; digestion-mouth; digestion-muscle; digestion-nerve; digestion-nutrition;  
digestion-pig; digestion-protein; digestion-silk; digestion-steel; digestion-stomach; digestion-sugar; digestion-tennis; digestion-tongue; digital camera-camera; digital

camera>electronics; digital camera>mobile phone; digital camera>photograph; digital camera>photographer; digital camera>portrait; digital camera>video; dignity>abortion; dignity>angel; dignity>anger; dignity>conscience; dignity>god; dignity>human rights; dignity>integrity; dignity>pride; dignity>privacy; dignity>reason; dignity>self-esteem; dignity>self-respect; dignity>video game; dilemma>idiom; dilemma>logic; dilemma>paradox; dilemma>problem; dining room>castle; dining room>kitchen; dining room>living room; dining room>staircase; dinner>breakfast; dinner>dessert; dinner>food; dinner>lunch; dinner>meal; dinner>noon; dinner>snack; dinner>sunday; dinner>supper; dinosaur>advertising; dinosaur>biology; dinosaur>bird; dinosaur>bone; dinosaur>cheek; dinosaur>chicken; dinosaur>chicken; dinosaur>computer; dinosaur>crocodile; dinosaur>extinction; dinosaur>feather; dinosaur>fiction; dinosaur>film; dinosaur>geology; dinosaur>kidney; dinosaur>literature; dinosaur>mammal; dinosaur>nest; dinosaur>physics; dinosaur>protein; dinosaur>reptile; dinosaur>science; dinosaur>skeleton; dinosaur>snake; dinosaur>tooth; dinosaur>wrist; diploma>ambassador; diploma>delegate; diploma>diplomacy; diploma>diplomat; diploma>electronics; diploma>king; diploma>leather; diploma>university; diplomacy>ambassador; diplomacy>climate change; diplomacy>culture; diplomacy>diplomat; diplomacy>economics; diplomacy>human rights; diplomacy>negotiation; diplomacy>politician; diplomacy>propaganda; diplomacy>public; diplomacy>sailing; diplomacy>strategy; diplomacy>trade; diplomacy>treaty; diplomat>war; diplomat>ambassador; diplomat>culture; diplomat>diploma; diplomat>diplomacy; diplomat>economics; diplomat>hip; diplomat>law; diplomat>self-esteem; diplomat>university; directions>direction; dirt>clothes; dirt>commerce; dirt>disgust; dirt>dust; dirt>dustbin; dirt>innate system; dirt>pregnancy; dirt>restaurant; dirt>skin; dirt>soil; disability>blindness; disability>disease; disability>employment; disability>extreme sports; disability>pity; disability>safety; disability>sense; disability>software; disability>transportation; disability>wheelchair; disadvantage>extinction; disagreement>consensus; disagreement>controversy; disappointment>blame; disappointment>frustration; disappointment>grief; disappointment>happiness; disappointment>immune system; disappointment>lottery; disappointment>optimism; disappointment>probability; disappointment>risk; disappointment>stock market; disaster>accident; disaster>crisis; disaster>earthquake; disaster>emergency; disaster>explosion; disaster>fire; disaster>flood; disaster>hazard; disaster>risk; disc jockey>jazz; disc jockey>microphone; disc jockey>nightclub; disc jockey>stadium; disc>disc jockey; discipline>motivation; discipline>prison; discipline>punishment; discipline>self-control; discipline>training; discipline>virtue; disco>album; disco>arrangement; disco>baseball; disco>celebrity; disco>cello; disco>disc jockey; disco>dj; disco>flute; disco>hip-hop; disco>jazz; disco>medal; disco>music; disco>necklace; disco>nightclub; disco>orchestra; disco>piano; disco>racism; disco>soundtrack; disco>techno; disco>television; disco>trumpet; disco>violin; discomfort>comfort; discretion>appeal; discretion>judge; discretion>jury; discretion>noun; discretion>police; discretion>prosecutor; discrimination>employer; discrimination>gender; discrimination>institution; discrimination>nationality; discrimination>prejudice; discrimination>racism; discrimination>slavery; discrimination>stereotype; discussion>conversation; disease>addiction; disease>attention; disease>biology; disease>cancer; disease>cure; disease>death; disease>disability; disease>emotion; disease>exercise; disease>illness; disease>infection; disease>injury; disease>medication; disease>metaphor; disease>nutrition; disease>obesity; disease>outbreak; disease>pain; disease>poverty; disease>pregnancy; disease>slavery; disease>stroke; disease>surgery; disease>symptom; disease>vaccination; disease>celebrity; disease>costume; disease>glasses; disease>mask; disease>science fiction; disgust>anger; disgust>consciousness; disgust>consent; disgust>contempt; disgust>disease; disgust>emotion; disgust>fear; disgust>god; disgust>milk; disgust>personality; disgust>privacy; disgust>racism; disgust>rat; disgust>sadness; disgust>sex; disgust>shame; dishonesty>consent; dishonesty>court; dishonesty>fraud; dishonesty>jury; dishonesty>robbery; dishonesty>theft; dishwasher>cutlery; dishwasher>perfume; dishwasher>restaurant; dishwasher>salt; dishwasher>temperature; dishwasher>washing machine; disk>disc; dislike>disgust; disorder>disease; disposition>belief; disposition>mind; disposition>truth; dispute>controversy; disrespect>respect; disruption>adoption; dissertation>thesis; distance>formula; distance>length; distance>physics; distance>ruler; distance>statistics; distance>award; distraction>attention; distraction>prayer; distress>suffering; district>authority; district>county; district>leisure; district>recycling; district>region; district>tax; district>turkey; dive>diving; diver>diving; diving>dance; diving>gymnastics; diving>sport; diving>swimming pool; divorce>addiction; divorce>god; divorce>lawyer; divorce>magistrate; divorce>marriage; divorce>workaholic; divorce>vow; dj>disc jockey; dna>agriculture; dna>animal; dna>atom; dna>bacteria; dna>biology; dna>blood; dna>brain; dna>cancer; dna>carbon; dna>earth; dna>evolution; dna>gene; dna>genetics; dna>hair; dna>life; dna>plant; dna>protein; dna>skin; dna>species; dna>temperature; dna>virus; dna>x-ray; doctor>surgeon; document>author; document>book; document>contract; document>evidence; document>information; document>ink; document>journal; document>laptop; document>material; document>paper; document>privacy; document>radio; document>report; document>sign; document>television; document>thesis; dog>animal; dog>blindness; dog>cat; dog>chocolate; dog>fox; dog>garlic; dog>grape; dog>horse; dog>human; dog>hunting; dog>leopard; dog>mammal; dog>pet; dog>pregnancy; dog>puppy; dog>restaurant; dog>tail; dog>tick; dog>tiger; dog>wolf; doll>archaeology; doll>art; doll>bone; doll>cereal; doll>cloth; doll>clothing; doll>fashion; doll>fur; doll>furniture; doll>leather; doll>plastic; doll>psychologist; doll>rebuffer; doll>slave; doll>toy; doll>transportation; doll>wood; dollar>currency; dollar>euro; dolphin>culture; dolphin>disease; dolphin>eyesight; dolphin>fish; dolphin>infection; dolphin>navy; dolphin>review; dolphin>shark; dolphin>skeleton; dolphin>taste; dolphin>tuna; dolphin>whale; donation>blood; donation>cash; donation>clothing; donation>consideration; donation>food; donation>gift; donation>toy; donkey>animal; donkey>cartoon; donkey>desert; donkey>mammal; donkey>proverb; donkey>sheep; donkey>straw; donkey>synonym; donkey>zebra; donor>donation; doom>destiny; door>accident; door>air conditioning; door>alarm; door>animal; door>atmosphere; door>ceiling; door>chest; door>climate; door>convenience; door>curtain; door>fire; door>floor; door>garden; door>gate; door>glass; door>horse; door>id card; door>knee; door>ladder; door>light; door>literature; door>metaphor; door>noise; door>people; door>pressure; door>prison; door>privacy; door>remote control; door>ritual; door>rubber; door>safety; door>security; door>switch; door>ton; door>wardrobe; doorway>door; dose>quantity; dot>full stop; doubt>authority; doubt>belief; doubt>childhood; doubt>deception; doubt>emotion; doubt>fact; doubt>future; doubt>history; doubt>law; doubt>logic; doubt>mind; doubt>paradox; doubt>politics; doubt>probability; doubt>question; doubt>reality; doubt>reason; doubt>religion; doubt>tradition; doubt>uncertainty; download>email; draft>drought; drama>actor; drama>audience; drama>collaboration; drama>dance; drama>dialogue; drama>entertainment; drama>episode; drama>fiction; drama>film; drama>grammar; drama>institution; drama>literature; drama>music; drama>opera; drama>performance; drama>poetry; drama>radio; drama>ritual; drama>soap opera; drama>song; drama>television; drama>theatre; drama>tragedy; drama>wit; draught>draft; drawback>commerce; drawback>export; drawback>law; drawback>sugar; drawback>warehouse; drawers>drawing; drawing>blackboard; drawing>brush; drawing>diagram; drawing>illustration; drawing>ink; drawing>leather; drawing>paper; drawing>pen; drawing>pencil; drawing>ruler; drawing>shade; drawing>silver; dream>anger; dream>anxiety; dream>creativity; dream>devil; dream>earth; dream>evil; dream>fantasy; dream>fear; dream>happiness; dream>heaven; dream>idea; dream>illness; dream>image; dream>mind; dream>nightmare; dream>novelist; dream>perception; dream>prediction; dream>sadness; dream>scientist; dream>sleep; dream>taste; dress>bride; dress>clothing; dress>fashion; dress>girl; dress>skirt; dress>tennis; dress>thigh; dress>trousers; dress>wedding; dress>woman; drink>alcohol; drink>beer; drink>cancer; drink>carrot; drink>chemistry; drink>coffee; drink>cucumber; drink>culture; drink>food; drink>fruit; drink>human; drink>juice; drink>lemonade; drink>liquid; drink>milk; drink>pub; drink>soft drink; drink>soup; drink>spoon; drink>tea; drink>water; drink>wine; drink>yogurt; drive>motivation; drive>road; drop>chest; drop>waist; drought>agriculture; drought>average; drought>climate change; drought>desert; drought>disaster; drought>economy; drought>erosion; drought>famine; drought>habitat; drought>human; drought>hunger; drought>industry; drought>lake; drought>landscape; drought>rainforest; drought>refugee; drought>ship; drought>snake; drought>soil; drought>unrest; drought>war; drought>wild; drug>animal; drug>beer; drug>body; drug>chemical; drug>cigarette; drug>coffee; drug>consciousness; drug>cream; drug>culture; drug>food; drug>government; drug>human; drug>illness; drug>law; drug>matter; drug>medicine; drug>mind; drug>mouth; drug>perception; drug>pharmacist; drug>pharmacy; drug>pharmacy; drug>tobacco; drug>wine; drum>jazz; drum>sound; duck>animal; duck>baseball; duck>beak; duck>bird; duck>fox; duck>swan; dump>waste; duration>time; dust>carpet; dust>climate change; dust>desert; dust>engineering; dust>fur; dust>hair; dust>laptop; dust>manufacturing; dust>material; dust>paper; dust>repair; dust>road; dust>surface; duty>debt; duty>employment; duty>obligation; duty>sacrifice; duty>soldier; duty>tradition; duvet>blanket; duvet>cotton; duvet>feather; duvet>pillow; duvet>silk; duvet>wool; dvd>cd; dvd>movie; dvd>pencil; eagerness>enthusiasm; eagle>beak; eagle>bird; eagle>extinction; eagle>religion; eagle>snake; eagle>sun; ear>bat; ear>cancer; ear>earring; ear>head; ear>muscle; ear>sense; ear>sound; earnings>commodity; earnings>corporation; earnings>income; earnings>investment; earnings>tax; earring>bacteria; earring>bone; earring>ear; earring>friction; earring>glass; earring>infection; earring>jewellery; earring>metal; earring>plastic; earring>sailor; earring>wood; earth>aluminium; earth>atmosphere; earth>carbon dioxide; earth>chemical; earth>climate; earth>life; earth>density; earth>desert; earth>dinosaur; earth>earthquake; earth>evolution; earth>geology; earth>global warming; earth>human; earth>iron; earth>light; earth>lightning; earth>mammal; earth>metre; earth>oxygen; earth>ozone; earth>planet; earth>pollution; earth>satellite; earth>season; earth>species; earth>sun; earth>sunlight; earth>tide; earth>tornado; earth>world; earthquake>building; earthquake>density; earthquake>disease; earthquake>earth; earthquake>fire; earthquake>liquid; earthquake>turkey; earthquake>volcano; east>adjective; east>adverb; east>earth; east>geography; east>map; east>north; east>noun; east>south; east>sun; east>west; echo>telephone; ecology>adaptation; ecology>agriculture; ecology>ant; ecology>bacteria; ecology>ant; ecology>bee; ecology>biology; ecology>carbon; ecology>carbon dioxide; ecology>climate; ecology>consumer; ecology>coral; ecology>dolphin; ecology>energy; ecology>erosion; ecology>evolution; ecology>extinction; ecology>flower; ecology>gene; ecology>genetics; ecology>global warming; ecology>immigration; ecology>landscape; ecology>leaf; ecology>materialism; ecology>ocean; ecology>oxygen; ecology>pond; ecology>population; ecology>predator; ecology>science; ecology>species; ecology>temperature; ecology>wasp; ecology>whale; economics>banking; economics>budget; economics>capitalism; economics>choice; economics>communication; economics>corporation; economics>economy; economics>exchange rate; economics>experiment; economics>finance; economics>globalization; economics>historian; economics>inflation; economics>insurance; economics>leisure; economics>management; economics>market; economics>money; economics>monopoly; economics>nature; economics>paradigm; economics>policy; economics>politics; economics>pollution; economics>poverty; economics>price; economics>recession; economics>scarcity; economics>science; economics>slavery; economics>slope; economics>socialist; economics>statistics; economics>sustainability; economics>technology; economics>trade; economics>uncertainty; economics>unemployment; economics>wealth; economist>bank; economist>business; economist>college; economist>commerce; economist>communication; economist>economics; economist>finance; economist>globalization; economist>government; economist>history; economist>law; economist>management; economist>market; economist>marketing; economist>philosophy; economist>policy; economist>politician; economist>politics; economist>statistics; economist>theory; economist>university; economist>agriculture; economist>bank; economist>banking; economist>capitalism; economist>coal; economist>commerce; economist>company; economist>competition; economist>corn; economist>currency; economist>debt; economist>debt; economist>demand; economist>economics; economist>economist; economist>engineering; economist>exchange rate; economist>film; economist>finance; economist>geography; economist>globalization; economist>history; economist>inflation; economist>infrastructure; economist>investment; economist>iron; economist>management; economist>manufacturing; economist>mining; economist>profession; economist>research; economist>scarcity; economist>stock market; economist>technology; economist>trade; economist>transport; economist>unemployment; economist>world; economy>world; edge>blade; edition>paper; education>adult; education>agriculture; education>architecture; education>biology; education>child; education>college; education>curriculum; education>diploma; education>engineering; education>experience; education>history; education>knowledge; education>learning; education>literacy; education>medicine; education>organization; education>philosopher; education>philosophy; education>politics; education>profession; education>professor; education>psychology; education>school; education>science; education>secondary school; education>student; education>syllabus; education>teacher; education>telephone; education>training; education>university; education>violin; education>writing; effect>result; effectiveness>efficiency; effectiveness>management; effectiveness>medicine; effectiveness>physics; efficiency>effectiveness; effort>energy; election>business; election>corporation; election>propaganda; election>referendum; election>statistics; electrician>electronics; electrician>hammer; electrician>air conditioning; electricity>atom; electricity>earth; electricity>electronics; electricity>force; electricity>friction; electricity>headache; electricity>height; electricity>lightning; electricity>lightning; electricity>matter; electricity>muscle; electricity>shark; electricity>steam; electricity>sugar; electricity>switch; electricity>torture; electricity>touch; electricity>wave; electronics>computer; electronics>counter; electronics>electricity; electronics>engineering; electronics>heat; electronics>radiation; electronics>radio; electronics>spice; electronics>switch; electronics>system; electronics>telecommunications; electronics>wire; elegance>beauty; elegance>chemistry; elegance>design; elegance>effectiveness; elegance>engineering; elegance>essence; elegance>elegance>pharmacy; elegance>simplicity; elegance>synonym; element>weather; elephant>animal; elephant>camel; elephant>circus; elephant>desert; elephant>dna; elephant>dolphin; elephant>emotion; elephant>empathy; elephant>erosion; elephant>giraffe; elephant>lion; elephant>self-awareness; elephant>skull; elephant>tiger; elephant>zoo; elite>capitalism; elite>tax; email>bracket; email>corporation; email>laptop; email>message board; email>mobile phone; email>spelling; embarrassment>anger; embarrassment>anxiety; embarrassment>anxiety; embarrassment>birthday; embarrassment>criticism; embarrassment>denial; embarrassment>dignity; embarrassment>emotion; embarrassment>environment; embarrassment>gossip; embarrassment>knowledge; embarrassment>privacy; embarrassment>shame; embarrassment>skill; embrace>acceptance; embrace>hug; emergency>accident; emergency>ambulance; emergency>donation; emergency>electricity; emergency>fire; emergency>firefighter; emergency>flood; emergency>gas; emergency>government; emergency>hazard; emergency>health; emergency>human; emergency>life; emergency>likelihood; emergency>management; emergency>observation; emergency>police; emergency>principle; emergency>probability; emergency>professional; emergency>property; emergency>rescue; emergency>risk; emergency>stroke; emergency>tax; emergency>tornado; emergency>training; emission>noise; emotion>aggression; emotion>anger; emotion>artificial intelligence; emotion>contempt; emotion>curiosity; emotion>disgust; emotion>disposition; emotion>economics; emotion>education;

emotion>evolution; emotion>fear; emotion>feeling; emotion>happiness; emotion>history; emotion>hunger; emotion>irritation; emotion>law; emotion>literature; emotion>love; emotion>mammal; emotion>marriage; emotion>medicine; emotion>motivation; emotion>philosophy; emotion>psychology; emotion>reason; emotion>reptile; emotion>sadness; emotion>virtue; empathy>crowd; empathy>dolphin; empathy>emotion; empathy>fantasy; empathy> pity; empathy>science fiction; empathy>sympathy; empathy>toddler; emperor>coup; emperor>empire; emperor>flag; emperor>prime minister; emperor>prince; emperor>religion; emperor>republic; empire>commerce; empire>election; empire>empire; empire>euro; empire>realm; empire>republic; empire>trade; employment>agriculture; employment>contract; employment>debate; employment>democracy; employment>discrimination; employment>employee; employment>employer; employment>globalization; employment>human rights; employment>manufacturing; employment>poverty; employment>sign; employment>slavery; employment>unemployment; employment>wage; employment>volunteer; employment>workforce; ending>end; endurance>anxiety; endurance>patience; endurance>resilience; enemy>anger; enemy>battle; enemy>devil; enemy>disease; enemy>envy; enemy>evil; enemy>fear; enemy>friend; enemy>friendship; enemy>frustration; enemy>god; enemy>hate; enemy>hatred; enemy>jealousy; enemy>literature; enemy>pact; enemy>propaganda; enemy>protagonist; enemy>religion; enemy>respect; enemy>war; enemy>violence; energy>atmosphere; energy>carbon dioxide; energy>crystal; energy>earthquake; energy>ecology; energy>force; energy>friction; energy>fuel; energy>hail; energy>heat; energy>light; energy>lightning; energy>machine; energy>matter; energy>momentum; energy>mountain; energy>oxygen; energy>potential; energy>pressure; energy>protein; energy>rain; energy>snow; energy>space; energy>speed; energy>star; energy>system; energy>temperature; energy>thermometer; energy>time; energy>tornado; energy>water; energy>wind; energy>volcano; energy>carbon dioxide; energy>carbon footprint; energy>carbon monoxide; engine>cattle; engine>electricity; engine>energy; engine>fluid; engine>force; engine>fuel; engine>gear; engine>global warming; engine>hard drive; engine>heat; engine>horse; engine>liquid; engine>machine; engine>mining; engine>muscle; engine>oxygen; engine>pressure; engine>pump; engine>rocket; engine>rope; engine>ship; engine>steam; engine>steel; engine>temperature; engine>wind; engineer>accountant; engineer>architect; engineer>business; engineer>education; engineer>engineering; engineer>industry; engineer>lawyer; engineer>management; engineer>pharmacist; engineer>politician; engineer>profession; engineer>science fiction; engineer>scientist; engineer>turkey; engineering>aircraft; engineering>architecture; engineering>artificial intelligence; engineering>biology; engineering>bridge; engineering>canal; engineering>chemistry; engineering>column; engineering>compromise; engineering>computer; engineering>design; engineering>economics; engineering>electricity; engineering>electronics; engineering>energy; engineering>engineer; engineering>harbour; engineering>infrastructure; engineering>logic; engineering>medicine; engineering>philosophy; engineering>physics; engineering>profession; engineering>robot; engineering>science; engineering>simulation; engineering>technology; engineering>telecommunications; engineering>transportation; enquiry>inquiry; enterprise>business; enterprise>company; enterprise>organization; entertainer>entertainment; entertainment>animation; entertainment>artificial intelligence; entertainment>audience; entertainment>ball; entertainment>ballet; entertainment>baseball; entertainment>basketball; entertainment>birthday; entertainment>board game; entertainment>camping; entertainment>cartoon; entertainment>ceremony; entertainment>chef; entertainment>chess; entertainment>choir; entertainment>circus; entertainment>clown; entertainment>comedian; entertainment>comedy; entertainment>composer; entertainment>concert; entertainment>cooking; entertainment>cricket; entertainment>dance; entertainment>drama; entertainment>education; entertainment>employment; entertainment>fair; entertainment>fantasy; entertainment>festival; entertainment>film; entertainment>fun; entertainment>gambling; entertainment>game; entertainment>ice hockey; entertainment>imagination; entertainment>insight; entertainment>insult; entertainment>irony; entertainment>jazz; entertainment>joke; entertainment>leisure; entertainment>literature; entertainment>marketing; entertainment>millennium; entertainment>monkey; entertainment>music; entertainment>musician; entertainment>novel; entertainment>opera; entertainment>orchestra; entertainment>parade; entertainment>party; entertainment>performance; entertainment>poetry; entertainment>professional; entertainment>public transport; entertainment>radio; entertainment>recreation; entertainment>rhythm; entertainment>running; entertainment>singing; entertainment>sport; entertainment>stadium; entertainment>television; entertainment>theatre; entertainment>tourist; entertainment>tournament; entertainment>warrior; entertainment>wedding; entertainment>video game; entertainment>wit; entertainment>writer; entertainment>zoo; enthusiasms>emotion; enthusiasms>enjoyment; enthusiasms>motivation; enthusiasms>poet; enthusiasms>prayer; entity>ghost; entity>life; entity>matter; entity>spirit; entrance>door; entrance>gate; envelope>government; envelope>mail; envelope>propaganda; envelope>steam; environment>ecology; environmentalist>sustainability; envy>aggression; envy>anger; envy>competition; envy>faith; envy>green; envy>happiness; envy>jealousy; envy>love; envy>miracle; envy>motivation; envy>priest; envy>resentment; envy>self-esteem; envy>sin; envy>wealth; envy>well-being; envy>virtue; envy>wisdom; episode>drama; episode>edition; episode>news; episode>novel; episode>season; episode>soap opera; equation>addition; equation>formula; equipment>tool; era>music; era>time; erosion>agriculture; erosion>climate change; erosion>drought; erosion>forest; erosion>river; erosion>sky; erosion>soil; erosion>starvation; erosion>stream; erosion>vegetation; error>appeal; error>biology; error>child; error>coin; error>crime; error>design; error>dna; error>engineer; error>evolution; error>gadget; error>government; error>grammar; error>illusion; error>information; error>jury; error>language; error>machine; error>medal; error>noise; error>parent; error>performance; error>pronunciation; error>punctuation; error>runway; error>sin; error>statistics; error>system; error>uncertainty; escalator>airport; escalator>aluminium; escalator>department store; escalator>hotel; escalator>pedestrian; escalator>stadium; escalator>verb; essay>analysis; essay>argument; essay>art; essay>criticism; essay>dissertation; essay>economics; essay>education; essay>metaphor; essay>music; essay>narrative; essay>novel; essay>philosophy; essay>poetry; essay>university; essay>writing; essence>materialism; essence>philosophy; essence>soul; euro>coin; euro>commodity; euro>credit card; euro>debit card; euro>exchange rate; euro>interest; euro>speculation; euro>target; evaluation>bias; evaluation>collaboration; evaluation>consumer; evaluation>controversy; evaluation>credibility; evaluation>customer; evaluation>data; evaluation>dignity; evaluation>education; evaluation>elite; evaluation>experiment; evaluation>goal; evaluation>government; evaluation>health care; evaluation>honesty; evaluation>individual; evaluation>information; evaluation>inquiry; evaluation>insight; evaluation>integrity; evaluation>interest; evaluation>interview; evaluation>knowledge; evaluation>management; evaluation>philosophy; evaluation>policy; evaluation>politics; evaluation>principle; evaluation>privacy; evaluation>questionnaire; evaluation>reality; evaluation>respect; evaluation>security; evaluation>self-esteem; evaluation>statistics; evening>afternoon; evening>dinner; evening>night; evening>sunset; event>business; event>ceremony; event>competition; event>festival; event>news; event>party; event>phenomenon; event>sport; evidence>argument; evidence>arrest; evidence>belief; evidence>bias; evidence>crime; evidence>debate; evidence>experiment; evidence>hypothesis; evidence>knowledge; evidence>laboratory; evidence>law; evidence>observation; evidence>philosophy; evidence>prosecutor; evidence>reason; evidence>resolution; evidence>truth; evidence>validity; evil>criticism; evil>devil; evil>ignorance; evil>murder; evil>neglect; evil>philosophy; evil>rape; evil>selfishness; evil>sin; evil>slavery; evil>terrorism; evolution>adaptation; evolution>ant; evolution>antibiotic; evolution>atmosphere; evolution>bacteria; evolution>bat; evolution>bee; evolution>biology; evolution>bird; evolution>chicken; evolution>crocodile; evolution>dinosaur; evolution>dna; evolution>donkey; evolution>earth; evolution>ecology; evolution>experiment; evolution>extinction; evolution>eye; evolution>fact; evolution>gene; evolution>generation; evolution>global warming; evolution>habitat; evolution>horse; evolution>immune system; evolution>insect; evolution>leg; evolution>life; evolution>mammal; evolution>materialism; evolution>monkey; evolution>mouse; evolution>offspring; evolution>oxygen; evolution>philosopher; evolution>plant; evolution>poet; evolution>population; evolution>protein; evolution>religion; evolution>reptile; evolution>sex; evolution>virus; exaggeration>actor; exaggeration>comedy; exaggeration>evil; exaggeration>gesture; exaggeration>portrait; exaggeration>praise; exaggeration>self-esteem; exaggeration>threat; exchange rate>bank; exchange rate>currency; exchange rate>finance; exchange rate>inflation; exchange rate>productivity; exchange rate>conversation; exchange>trade; exclamation mark>apostrophe; exclamation mark>full stop; exclamation mark>irony; exclamation mark>punctuation; exclamation mark>question mark; exclamation mark>triangle; exhaust>exhaustion; exhibit>exhibition; exhibit>museum; exhibition>archaeology; exhibition>architect; exhibition>chart; exhibition>craft; exhibition>drawing; exhibition>history; exhibition>map; exhibition>museum; exhibition>painting; exhibition>performance; exhibition>science; exhibition>sculpture; exhibition>technology; exhibition>writer; exile>coup; exile>prosecution; exile>punishment; exile>refugee; exile>solitude; existence>awareness; existence>belief; existence>consciousness; existence>death; existence>definition; existence>entity; existence>essence; existence>hierarchy; existence>life; existence>materialism; existence>matter; existence>mind; existence>persistence; existence>proposition; existence>reality; existence>sense; existence>world; exit>door; expedition>exploration; expenditure>cost; expense>asset; expense>controversy; expense>cost; expense>debit; expense>employee; expense>expenses; expense>money; expense>tuition; expenses>expense; experience>authority; experience>body; experience>consciousness; experience>customs; experience>data; experience>emotion; experience>empathy; experience>experiment; experience>expert; experience>extreme sports; experience>imagination; experience>individual; experience>intellect; experience>interaction; experience>logic; experience>memory; experience>mind; experience>perception; experience>philosophy; experience>prayer; experience>reality; experience>reason; experience>rumour; experience>sense; experience>thought; experience>time; experience>tourism; experience>virtual reality; experience>wisdom; experience>yoga; experiment>agriculture; experiment>astronomy; experiment>chemistry; experiment>ecology; experiment>economics; experiment>engineering; experiment>geology; experiment>hypothesis; experiment>laboratory; experiment>measurement; experiment>number; experiment>philosophy; experiment>protein; experiment>psychology; experiment>science; experiment>scientist; experiment>solution; experiment>statistics; experiment>system; expert>authority; expert>consultant; expert>education; expert>experience; expert>intellectual; expert>judgment; expert>knowledge; expert>law; expert>official; expert>opinion; expert>problem; expert>profession; expert>publication; expert>scholar; expert>skill; expert>technician; expert>training; expert>wisdom; explanation>belief; explanation>description; explanation>exploration; explanation>inquiry; explanation>knowledge; explanation>proposition; explanation>theory; explanation>understanding; exploration>adventure; exploration>explanation; exploration>history; exploration>information; explosion>animal; explosion>bomb; explosion>camera; explosion>chemical; explosion>energy; explosion>flame; explosion>gas; explosion>heat; explosion>missile; explosion>planet; explosion>pressure; explosion>star; explosion>sun; explosion>volcano; explosion>volume; export>customer; export>import; export>management; export>regulation; exposure>chemical; exposure>publicity; extinction>animal; extinction>biology; extinction>climate change; extinction>death; extinction>dinosaur; extinction>earth; extinction>ecology; extinction>global warming; extinction>goat; extinction>government; extinction>habitat; extinction>horse; extinction>mosquito; extinction>philosophy; extinction>plant; extinction>pollution; extinction>population; extinction>predator; extinction>rat; extinction>reproduction; extinction>risk; extinction>selection; extinction>species; extinction>technology; extinction>water; extinction>virus; extinction>zebra; extinction>zoo; extract>alcohol; extract>banana; extract>cherry; extract>grain; extract>lemon; extract>peach; extract>pineapple; extract>rose; extract>strawberry; extract>water; eye>animal; eye>brain; eye>camera; eye>colour; eye>crystal; eye>darkness; eye>eyelid; eye>fish; eye>horse; eye>mirror; eye>prawn; eye>pupil; eye>rabbit; eye>snake; eye>sunlight; eyebrow>anger; eyebrow>mammal; eyebrow>rain; eyebrow>sweat; eyelash>camel; eyelash>cat; eyelash>cow; eyelash>dust; eyelash>eyelid; eyelash>horse; eyelash>insect; eyelash>mammal; eyelash>mouse; eyelid>antibiotic; eyelid>bacteria; eyelid>death; eyelid>eyelash; eyelid>skin; face>brain; face>cheek; face>chin; face>communication; face>ear; face>emotion; face>eyebrow; face>eyelash; face>eyelid; face>forehead; face>hair; face>head; face>lip; face>nostril; face>nose; face>sense; face>taste; face>temperature; face>tooth; facilities>facility; facility>building; facility>hotel; facility>installation; facility>resort; facility>school; fact>adverb; fact>crime; fact>experience; fact>hypothesis; fact>lie; fact>philosophy; fact>preposition; fact>reality; fact>theory; fact>truth; fact>truth; fact>truth; factory>canal; factory>cotton; factory>globalization; factory>independence; factory>industrialization; factory>interaction; factory>machine; factory>management; factory>manufacturing; factory>organization; factory>paint; factory>public transport; factory>regulation; factory>statistics; factory>tool; factory>tram; factory>warehouse; failure>failure; failure>competition; failure>disaster; failure>observation; failure>perception; failure>prediction; fair>entertainment; fair>exhibition; fair>festival; fair>harvest; fair>holiday; fair>market; fair>people; fairness>justice; faith>belief; faith>confidence; faith>god; faith>knowledge; faith>logic; faith>mind; faith>perception; faith>philosopher; faith>philosophy; faith>probability; faith>psychologist; faith>reason; faith>religion; faith>virtue; fake>deception; fake>forgery; fall>autumn; fame>celebrity; family>advertising; family>animal; family>aunt; family>belief; family>brother-in-law; family>capitalism; family>city; family>civilization; family>community; family>cousin; family>daughter; family>divorce; family>father; family>father; family>grandmother; family>grandparent; family>household; family>human; family>industrialization; family>infant; family>love; family>marriage; family>mother; family>nation; family>nephew; family>niece; family>people; family>region; family>resource; family>science; family>sibling; family>sister-in-law; family>son; family>uncle; family>village; famine>agriculture; famine>bureaucracy; famine>cash; famine>climate; famine>climate change; famine>crime; famine>death; famine>disaster; famine>drought; famine>erosion; famine>farmer; famine>fishing; famine>food; famine>god; famine>grain; famine>hunger; famine>hunting; famine>income; famine>infrastructure; famine>law; famine>leisure; famine>market; famine>mobile phone; famine>money; famine>peasant; famine>relief; famine>seed; famine>starvation; famine>sustainability; famine>tax; famine>war; famine>vegetarian; famine>wheat; famine>fiction; fantasy>hero; fantasy>history; fantasy>legend; fantasy>literature; fantasy>monster; fantasy>realm; fantasy>science fiction; fare>airline; fare>bus; fare>fee; fare>passenger; fare>public transport; farm>agriculture; farm>beef; farm>butter; farm>cattle; farm>cheese; farm>chicken; farm>coffee; farm>cotton; farm>cream; farm>democracy; farm>duck; farm>farmer; farm>farming; farm>fibre; farm>food; farm>fuel; farm>grain; farm>lake; farm>mammal; farm>meat; farm>milk; farm>produce; farm>river; farm>sea; farm>socialist; farm>stable; farm>tobacco; farm>tractor; farmer>agriculture; farmer>chicken; farmer>dog; farmer>duck; farmer>employment; farmer>farm; farmer>feather; farmer>gardener; farmer>gardening; farmer>goat; farmer>goat; farmer>horse; farmer>market; farmer>meat; farmer>peasant; farmer>poverty; farmer>sheep; farmer>subsidy; farming>agriculture; fashion>beauty; fashion>brand; fashion>clothing; fashion>generation; fashion>geography; fashion>grammar; fashion>language; fashion>logo; fashion>peasant; fashion>perfume; fashion>profession; fashion>society;

fashion>turkey; fast food>chicken; fast food>coast; fast food>cucumber; fast food>curry; fast food>cutlery; fast food>ice cream; fast food>junk food; fast food>meat; fast food>menu; fast food>onion; fast food>pancake; fast food>pie; fast food>pizza; fast food>restaurant; fast food>rice; fast food>salad; fast food>sausage; fast food>soft drink; fast food>turkey; fat>butter; fat>chemistry; fat>energy; fat>gram; fat>hair; fat>liquid; fat>mouse; fat>obesity; fat>skin; fat>vitamin; fate>destiny; father>adjective; father>adverb; father>bear; father>bird; father>cartoon; father>child; father>dog; father>dolphin; father>duck; father>fish; father>horse; father>housewife; father>human; father>insect; father>lion; father>marriage; father>mother; father>nest; father>parent; father>rape; father>reptile; father>swan; father>verb; father>wolf; fault>error; favourite>architect; favourite>chess; favourite>essay; favourite>mushroom; favourite>prime minister; fear>adaptation; fear>anger; fear>anxiety; fear>bridge; fear>clown; fear>dancing; fear>death; fear>dream; fear>emotion; fear>evil; fear>evolution; fear>failure; fear>fright; fear>future; fear>ghost; fear>happiness; fear>mammal; fear>nightmare; fear>panic; fear>panic; fear>people; fear>psychologist; fear>risk; fear>sadness; fear>singing; fear>snake; fear>solitude; fear>spider; fear>terrorism; fear>threat; fear>tunnel; fear>uncertainty; fear>war; fear>water; feast>festival; feather>beak; feather>bird; feather>blanket; feather>clothing; feather>dinosaur; feather>eagle; feather>eyelash; feather>hair; feather>heat; feather>mammal; feather>parrot; feather>penguin; feather>pillow; feather>pollution; feather>predator; feather>protein; feather>reptile; feather>skin; february>august; february>cabbage; february>day; february>monday; february>month; february>season; february>week; february>year; fee>apartment; fee>cost; fee>flight; fee>illness; fee>interest; fee>lottery; fee>luggage; fee>noise; fee>parking; fee>price; fee>refund; fee>shopping; fee>subsidy; fee>tourism; fee>tuition; fee>upgrade; feedback>electronics; feedback>gain; feedback>game; feedback>information; feedback>interaction; feedback>investment; feedback>knowledge; feedback>organization; feedback>phenomenon; feedback>protein; feedback>psychology; feedback>revolution; feedback>stock; feedback>stock market; feedback>system; feeling>emotion; feeling>experience; feeling>perception; feeling>touch; female>animal; female>ant; female>bee; female>bird; female>breast; female>evolution; female>genetics; female>girl; female>human; female>insect; female>male; female>mammal; female>milk; female>plant; female>reproduction; female>sex; female>shark; female>woman; fence>balcony; fence>balcony; fence>bridge; fence>bull; fence>habitat; fence>hedge; fence>roof; fence>transport; fence>wall; fence>water; ferry>boat; ferry>bridge; ferry>global warming; ferry>knot; ferry>ship; ferry>steam; ferry>tunnel; ferry>yacht; festival>fair; festival>god; festival>holiday; festival>idiom; festival>meal; festival>party; festival>religion; festival>season; fever>aspirin; fever>camel; fever>cancer; fever>cold; fever>disease; fever>ear; fever>horse; fever>human; fever>surgery; fever>symptom; fiction>advertising; fiction>author; fiction>biography; fiction>blog; fiction>confusion; fiction>dialogue; fiction>fantasy; fiction>fear; fiction>film; fiction>history; fiction>imagination; fiction>literature; fiction>metaphor; fiction>narrative; fiction>novel; fiction>poetry; fiction>propaganda; fiction>property; fiction>protagonist; fiction>religion; fiction>school; fiction>science fiction; fiction>song; fiction>symbol; fiction>theatre; fiction>theory; fiction>tragedy; field>lawn; fight>celebrity; fighting>combat; figure>drawing; figure>number; figure>shape; film>actor; film>advertising; film>amateur; film>animation; film>art; film>ballet; film>camera; film>celebrity; film>cheese; film>commerce; film>culture; film>dialogue; film>documentary; film>download; film>dvd; film>entertainment; film>language; film>magazine; film>newspaper; film>opera; film>orchestra; film>photography; film>piano; film>sound; film>soundtrack; film>subtitles; film>technology; film>television; film>translation; film>video; finance>asset; finance>bank; finance>business; finance>certainty; finance>economics; finance>inflation; finance>insurance; finance>investment; finance>price; finance>retirement; finance>stock; finger>hand; finger>human; finger>injury; finger>joint; finger>muscle; finger>thumb; finger>toe; fire station>radio; fire>agriculture; fire>atom; fire>candle; fire>chemical; fire>cigarette; fire>coal; fire>cooking; fire>crime; fire>digestion; fire>electricity; fire>firefighter; fire>flame; fire>fuel; fire>fuel; fire>heat; fire>industry; fire>landscape; fire>lead; fire>light; fire>material; fire>oil; fire>school; fire>smoke; fire>temperature; fire>torture; fire>water; fire>vehicle; fire>wood; firefighter>carbon; firefighter>carbon monoxide; firefighter>fuel; firefighter>hazard; firefighter>horse; firefighter>nurse; firefighter>oxygen; firefighter>rescue; fireplace>architecture; fireplace>carbon monoxide; fireplace>chimney; fireplace>lung; fireplace>wood; firm>business; first language>language; fish>adaptation; fish>animal; fish>bee; fish>carbon dioxide; fish>crocodile; fish>digestion; fish>fishing; fish>heart; fish>jaw; fish>kidney; fish>live; fish>mammal; fish>mouth; fish>nostril; fish>oxygen; fish>pain; fish>salmon; fish>shark; fish>skate; fish>species; fish>suffering; fish>synonym; fish>tuna; fish>vein; fisherman>community; fisherman>club; fisherman>fish; fisherman>fishing; fisherman>flood; fisherman>shark; fisherman>tuna; fishing>arrow; fishing>beer; fishing>boat; fishing>cod; fishing>community; fishing>culture; fishing>demand; fishing>ecology; fishing>fish; fishing>fisherman; fishing>market; fishing>miracle; fishing>mouth; fishing>pleasure; fishing>protein; fishing>recreation; fishing>river; fishing>salmon; fishing>sea; fishing>shark; fishing>ship; fishing>tomb; fishing>tuna; fishing>water; fishing>win; fist>squad; flag>advertising; flag>cargo; flag>communication; flag>country; flag>customs; flag>golf; flag>nation; flag>navy; flag>pollution; flag>referee; flag>shark; flag>socialism; flag>sport; flag>turkey; flag>wave; flag>wave; flame>air; flame>atmosphere; flame>candle; flame>carbon; flame>carbon monoxide; flame>earth; flame>energy; flame>fire; flame>firework; flame>fuel; flame>gas; flame>heat; flame>industry; flame>laboratory; flame>light; flame>lighter; flame>oxygen; flame>ozone; flame>smoke; flame>temperature; flame>wood; flash>lightning; flat>apartment; flesh>animal; flesh>biology; flesh>bone; flesh>fat; flesh>food; flesh>human; flesh>meat; flesh>muscle; flight>air; flight>aircraft; flight>atmosphere; flight>ball; flight>balloon; flight>bat; flight>bird; flight>bullet; flight>density; flight>dinosaur; flight>earth; flight>evolution; flight>firework; flight>force; flight>friction; flight>helicopter; flight>insect; flight>kite; flight>landing; flight>machine; flight>mammal; flight>missile; flight>momentum; flight>penguin; flight>rocket; flight>satellite; flight>ship; flight>skin; flight>species; flight>weight; flight>wing; flood>canal; flood>civilization; flood>commerce; flood>concrete; flood>culture; flood>death; flood>earthquake; flood>farmer; flood>lake; flood>property; flood>river; flood>thunderstorm; flood>tide; flood>water; flood>wind; floor>air conditioning; floor>balcony; floor>carpet; floor>ceiling; floor>employment; floor>soil; floor>storey; flour>bread; flour>cake; flour>carbon dioxide; flour>cereal; flour>coconut; flour>dessert; flour>explosive; flour>flower; flour>grain; flour>ingredient; flour>pancake; flour>pasta; flour>potato; flour>pudding; flour>rice; flour>root; flour>salt; flour>sauce; flour>wheat; flour>vitamin; flour>adaptation; flour>bee; flour>beer; flour>bird; flour>broccoli; flour>chicken; flour>dna; flour>extinction; flour>female; flour>fruit; flour>funeral; flour>garden; flour>honey; flour>insect; flour>leaf; flour>protein; flour>reproduction; flour>root; flour>rose; flour>seed; flour>spice; flour>symbol; flour>sympathy; flour>temperature; flour>temple; fluency>code; fluency>information; fluency>person; fluency>system; fluency>understanding; fluency>writing; fluid>gas; fluid>liquid; fluid>matter; fluid>physics; fluid>pressure; flute>human; flute>musician; flute>sound; flute>swan; flute>whistle; flute>volume; flute>butterfly; fly>dna; fly>fish; fly>insect; fly>literature; fly>mosquito; fly>novel; fly>poem; fly>species; fly>wound; fog>crystal; fog>hall; fog>ice; fog>mist; fog>slip; fog>slope; fog>smog; fog>steam; fog>valley; fog>water; fog>crowd; folk>ecology; folk>people; folk>tribe; follower>poem; food>acid; food>advertising; food>agriculture; food>animal; food>bacon; food>bacteria; food>bean; food>bee; food>beef; food>blood; food>brand; food>bread; food>broccoli; food>butter; food>cabbage; food>caf  ; food>carrot; food>cereal; food>cheese; food>chef; food>chewing gum; food>chicken; food>chocolate; food>climate change; food>commodity; food>cooking; food>corporation; food>counter; food>ecology; food>energy; food>evolution; food>famine; food>fast food; food>fat; food>fish; food>fruit; food>frying pan; food>fuel; food>human; food>hygiene; food>immune system; food>import; food>junk food; food>kidney; food>kitchen; food>lemon; food>lettuce; food>meal; food>meat; food>milk; food>muscle; food>mushroom; food>obesity; food>onion; food>oven; food>pasta; food>pea; food>peanut; food>plant; food>pork; food>potato; food>pottery; food>protein; food>rash; food>restaurant; food>rice; food>salad; food>salmon; food>salt; food>seed; food>soup; food>spinach; food>starvation; food>steam; food>sugar; food>supermarket; food>sustainability; food>sweet; food>taste; food>tobacco; food>tomato; food>tool; food>tractor; food>tuna; food>vegetable; food>vegetarian; food>wheat; food>vinegar; food>virus; food>yogurt; food>clown; food>ankle; food>bone; food>cow; food>heel; food>hip; food>horse; food>infection; food>knee; food>leg; food>muscle; food>paw; food>sheep; food>shoe; food>sweat; football>basketball; football>blindness; football>gymnastics; football>ice hockey; football>leather; football>peasant; football>professional; football>referee; football>sand; football>silk; football>team; football>tradition; football>try; football>volleyball; football>yard; force>angle; force>atom; force>basketball; force>blog; force>day; force>density; force>diagram; force>earth; force>energy; force>flight; force>fluid; force>friction; force>heat; force>interaction; force>logic; force>measurement; force>momentum; force>nature; force>observation; force>physics; force>planet; force>potential; force>pressure; force>revolution; force>second; force>space; force>speed; force>surface; force>temperature; force>wave; force>wind; force>year; forehead>eyebrow; forehead>winkle; forest>bacteria; forest>earth; forest>plant; forest>rainforest; forest>soil; forest>tree; forest>wilderness; forest>woodland; forgery>currency; forgery>deception; forgery>document; forgery>murder; forgery>label; forgery>money; forgery>photography; forgiveness>anger; forgiveness>god; forgiveness>grief; forgiveness>happiness; forgiveness>medicine; forgiveness>murder; forgiveness>punishment; forgiveness>religion; forgiveness>resentment; fork>bronze; fork>cutlery; fork>knife; fork>spoon; form>shape; formula>atom; formula>calculation; formula>computer; formula>equation; formula>ozone; formula>science; formula>sphere; formula>spreadsheet; formula>water; formula>volume; fortnight>day; fortnight>week; fortune>luck; fortune>wealth; fountain>paradise; fountain>pump; fox>animal; fox>berry; fox>bird; fox>continent; fox>dog; fox>extinction; fox>farm; fox>fish; fox>fruit; fox>fur; fox>grass; fox>insect; fox>mammal; fox>reptile; fox>snake; fox>species; fox>tail; frame>glasses; fraud>contract; fraud>credit card; fraud>crime; fraud>deception; fraud>money; fraud>stock market; freedom>liberty; frenzy>dvd; frenzy>murder; frenzy>narrative; frenzy>prison; frenzy>atmosphere; friction>carbon monoxide; friction>copper; friction>experiment; friction>explosion; friction>fluid; friction>force; friction>heat; friction>measure; friction>road; friction>surface; friction>temperature; friday>corporation; friday>fish; friday>mosque; friday>potato; friday>saturday; friday>sunset; friday>thursday; friend>friendship; friendship>affection; friendship>bird; friendship>cancer; friendship>cat; friendship>castle; friendship>competition; friendship>discrimination; friendship>divorce; friendship>dog; friendship>empathy; friendship>farmer; friendship>happiness; friendship>honesty; friendship>hospital; friendship>infection; friendship>loyalty; friendship>mail; friendship>mammal; friendship>marriage; friendship>milk; friendship>nickname; friendship>philosophy; friendship>scarcity; friendship>self-esteem; friendship>sympathy; friendship>toy; friendship>understanding; friendship>vaccine; friend>fear; frog>beak; frog>bone; frog>carbon dioxide; frog>climbing; frog>electricity; frog>extinction; frog>eye; frog>fish; frog>heart; frog>leg; frog>kidney; frog>leopard; frog>mouth; frog>oxygen; frog>protein; frog>rib; frog>running; frog>snake; frog>tail; frog>tongue; frog>walking; frog>witch; frontier>border; frontier>turkey; frost>air; frost>crystal; frost>freezer; frost>glass; frost>helicopter; frost>ice; frost>temperature; frost>wind; frost>winter; frown>concentration; frown>confusion; frown>smile; frown>worry; fruit>agriculture; fruit>animal; fruit>apple; fruit>banana; fruit>bean; fruit>berry; fruit>cake; fruit>carrot; fruit>cereal; fruit>cherry; fruit>coconut; fruit>cookie; fruit>cucumber; fruit>evolution; fruit>flower; fruit>grape; fruit>human; fruit>ice cream; fruit>lemon; fruit>mango; fruit>melon; fruit>nutrition; fruit>olive; fruit>pea; fruit>peach; fruit>peanut; fruit>pear; fruit>pineapple; fruit>rice; fruit>rose; fruit>seed; fruit>spice; fruit>strawberry; fruit>tomato; fruit>water; fruit>vegetable; fruit>wheat; fruit>wine; fruit>vinegar; fruit>yogurt; frustration>anger; frustration>confidence; frustration>disappointment; frustration>fear; frying pan>aluminum; frying pan>bacon; frying pan>copper; fuel>carbon; fuel>carbon dioxide; fuel>carbon monoxide; fuel>cereal; fuel>coal; fuel>diesel; fuel>earth; fuel>electricity; fuel>energy; fuel>engine; fuel>gas; fuel>global warming; fuel>heating; fuel>kilogram; fuel>star; fuel>wheat; fuel>wood; full stop>punctuation; fun>entertainment; fun>happiness; fun>joy; fun>leisure; fun>pleasure; fun>recreation; fun>funding; fun>donation; funding>finance; funding>investment; funding>money; funding>project; funding>savings; funding>subsidy; funding>tax; funeral>burial; funeral>celebrity; funeral>ceremony; funeral>corpse; funeral>culture; funeral>death; funeral>diamond; funeral>flower; funeral>infant; funeral>religion; funeral>ritual; funeral>science fiction; funeral>tomb; fur>animal; fur>fox; fur>hair; fur>leather; fur>mammal; fur>rabbit; fur>velvet; fur>wool; furniture>house; furniture>oak; furniture>reform; furniture>sculpture; furniture>turkey; furniture>architecture; future>art; future>belief; future>death; future>destiny; future>dimension; future>evolution; future>existence; future>fiction; future>ghost; future>god; future>history; future>hope; future>information; future>logic; future>materialism; future>mind; future>music; future>nature; future>optimism; future>painting; future>philosophy; future>poetry; future>prediction; future>present; future>probability; future>reality; future>religion; future>risk; future>robot; future>science; future>science fiction; future>sculpture; future>simulation; future>space; future>speed; future>spirit; future>technology; future>theatre; future>theory; future>thesis; future>time; future>uncertainty; future>violence; gadget>electronics; gadget>machine; gadget>novelty; gadget>tool; gain>electronics; gain>ratio; gallery>audience; gallery>balcony; gallery>mining; gallery>museum; gallery>retail; gamble>gambling; gambling>coin; gambling>election; gambling>insurance; gambling>law; gambling>lottery; gambling>money; gambling>probability; gambling>recreation; gambling>speculation; gambling>stock; gambling>television; game>art; game>artificial intelligence; game>baseball; game>basketball; game>board game; game>book; game>chess; game>city; game>competition; game>computer; game>cricket; game>dice; game>education; game>enjoyment; game>entertainment; game>exercise; game>gymnastics; game>hunting; game>interaction; game>law; game>leather; game>luck; game>marketing; game>money; game>park; game>psychology; game>puzzle; game>school; game>simulation; game>skill; game>sport; game>strategy; game>table tennis; game>tennis; game>town; game>toy; game>training; game>war; game>video game; game>volleyball; gang>harassment; gang>ritual; gang>robbery; gang>terrorist; gang>theft; gang>violence; garden>bird; garden>carbon dioxide; garden>climate change; garden>farm; garden>flower; garden>food; garden>fountain; garden>gardener; garden>gardening; garden>insect; garden>landscape; garden>light; garden>lighting; garden>nature; garden>ocean; garden>opera; garden>paradise; garden>park; garden>plant; garden>pollution; garden>rain; garden>sculpture; garden>season; garden>shed; garden>soil; garden>sunshine; garden>trail; garden>tree; garden>water; garden>wildlife; garden>wind; garden>zoo; gardener>gardening; gardening>agriculture; gardening>air conditioning; gardening>animal; gardening>ant; gardening>balcony; gardening>basket; gardening>bird; gardening>cat; gardening>civilization; gardening>flower; gardening>fruit; gardening>garden; gardening>herb; gardening>hobby; gardening>hygiene; gardening>insect; gardening>ladder; gardening>law; gardening>leaf; gardening>medicine; gardening>plant; gardening>seed; gardening>spade; gardening>tourism; gardening>tree; gardening>weed; gardening>wildlife; gardening>zoo; garlic>antibiotic; garlic>aspirin; garlic>bird; garlic>blood; garlic>bulb; garlic>cancer; garlic>cholesterol; garlic>glass; garlic>infection; garlic>insect; garlic>iron; garlic>juice; garlic>leek; garlic>onion; garlic>oven; garlic>pasta; garlic>pregnancy; garlic>protein; garlic>tomato; garlic>weed; garlic>wine; garlic>vinegar; garlic>worm; garment>clothing; gas>air; gas>air conditioning; gas>atmosphere; gas>breath; gas>carbon

dioxide; gas>chemist; gas>cooking; gas>density; gas>iron; gas>lighting; gas>lightning; gas>liquid; gas>lung; gas>mixture; gas>momentum; gas>oxygen; gas>parachute;  
gas>particle; gas>pressure; gas>sailing; gas>smoke; gas>statistics; gas>temperature; gas>weather; gas>wind; gate>border; gate>castle; gate>door; gate>fence; gate>road;  
gate>wall; gear>friction; gear>ratio; gender>biology; gender>breast; gender>butterfly; gender>chemistry; gender>clothing; gender>disability; gender>discrimination; gender>dna;  
gender>education; gender>gene; gender>genetics; gender>god; gender>history; gender>intelligence; gender>language; gender>nationality; gender>noun; gender>oxygen;  
gender>protein; gender>psychology; gender>sex; gender>species; gene>ancestor; gene>bacteria; gene>biology; gene>data; gene>dna; gene>electronics; gene>evolution;  
gene>generation; gene>genetics; gene>hypothesis; gene>infection; gene>life; gene>mouse; gene>pea; gene>protein; gene>region; gene>species; gene>symbol; gene>virus;  
generalization>animal; generalization>bird; generalization>dog; generalization>fish; generalization>logic; generalization>mammal; generalization>reasoning; generalization>reptile;  
generalization>triangle; generalization>biology; generalization>career; generalization>child; generalization>childhood; generalization>grandmother; generalization>mother; generalization>offspring;  
generalization>reproduction; generalization>salary; generalization>gift; generalization>poison; generalization>selfishness; generalization>virtue; generalization>adaptation; generalization>animal; generalization>bacteria;  
genetics>biology; genetics>cancer; genetics>dna; genetics>evolution; genetics>gene; genetics>health; genetics>health care; genetics>human; genetics>nutrition; genetics>pea;  
genetics>plant; genetics>protein; genetics>science; genetics>virus; genius>creativity; genius>evolution; genius>expert; genius>insight; genius>intelligence; genius>person;  
genius>philosopher; genius>statistics; gentleman>business; gentleman>citizen; gentleman>cricket; gentleman>education; gentleman>family; gentleman>honour; gentleman>irony;  
gentleman>lady; gentleman>prince; gentleman>salary; gentleman>trade; gentleman>university; gentleman>virtue; geography>art; geography>astronomy; geography>climate;  
geography>communication; geography>culture; geography>database; geography>earth; geography>economics; geography>geology; geography>globalization; geography>horizon;  
geography>human; geography>interaction; geography>map; geography>mountain; geography>planet; geography>politics; geography>science; geography>soil; geography>space;  
geography>sustainability; geography>transport; geography>university; geography>valley; geography>water; geology>atmosphere; geology>climate change; geology>earth;  
geology>earthquake; geology>erosion; geology>evolution; geology>flood; geology>geography; geology>intrusion; geology>landscape; geology>metal; geology>mining;  
geology>mountain; geology>museum; geology>river; geology>science; geology>volcano; gerund>adjective; gerund>adverb; gerund>clause; gerund>infinite; gerund>noun;  
gerund>phrase; gerund>preposition; gerund>verb; gesture>dance; gesture>face; gesture>hand; gesture>speech; gesture>word; ghost>analogy; ghost>animal; ghost>classic;  
ghost>fear; ghost>fiction; ghost>god; ghost>mind; ghost>perception; ghost>religion; ghost>sacrifice; ghost>sleep; ghost>spirit; gift>baby; gift>birthday; gift>boyfriend; gift>bribery;  
gift>cake; gift>drink; gift>economics; gift>examination; gift>father; gift>food; gift>forgiveness; gift>friendship; gift>funeral; gift>girlfriend; gift>happiness; gift>kindness; gift>love;  
gift>money; gift>mother; gift>property; gift>retirement; gift>sacrifice; gift>souvenir; gift>student; gift>wedding; giraffe>animal; giraffe>camel; giraffe>leopard; giraffe>lion;  
giraffe>mammal; giraffe>rib; giraffe>skull; giraffe>tick; giraffe>woodland; girl>adult; girl>boy; girl>childhood; girl>confirmation; girl>education; girl>female; girl>girlfriend; girl>human;  
girl>man; girl>turkey; girl>woman; girlfriend>boyfriend; girlfriend>friendship; girlfriend>marriage; girlfriend>wedding; glass>bottle; glass>carbon; glass>carbon dioxide;  
glass>chemical; glass>crystal; glass>lightning; glass>sand; glass>telescope; glass>vase; glass>window; glass>volume; glasses>blindness; glasses>chef; glasses>department  
store; glasses>ear; glasses>fashion; glasses>glass; glasses>hat; glasses>laser; glasses>light; glasses>pharmacy; glasses>plastic; glasses>radiation; glasses>sunglasses;  
glasses>virtual reality; global warming>atmosphere; global warming>carbon dioxide; global warming>cloud; global warming>desert; global warming>energy; global  
warming>extinction; global warming>flood; global warming>ice; global warming>ocean; global warming>ozone; global warming>planet; global warming>plant; global  
warming>probability; global warming>rice; global warming>satellite; global warming>snow; global warming>society; global warming>soil; global warming>statistics; global  
warming>summer; global warming>technology; global warming>water; global warming>volcano; globalization>accountant; globalization>airline; globalization>banking;  
globalization>business; globalization>capitalism; globalization>carbon dioxide; globalization>cash; globalization>climate change; globalization>communication;  
globalization>community; globalization>construction; globalization>crime; globalization>culture; globalization>curriculum; globalization>democracy; globalization>earth;  
globalization>economics; globalization>economist; globalization>exchange rate; globalization>famine; globalization>fast food; globalization>finance; globalization>global warming;  
globalization>habitat; globalization>health; globalization>human rights; globalization>immigration; globalization>import; globalization>income; globalization>industrialization;  
globalization>innovation; globalization>insurance; globalization>investment; globalization>investor; globalization>knowledge; globalization>leisure; globalization>liberty;  
globalization>life; globalization>marriage; globalization>nature; globalization>passport; globalization>peasant; globalization>philosophy; globalization>pollution;  
globalization>propaganda; globalization>recreation; globalization>religion; globalization>river; globalization>socialism; globalization>society; globalization>solidarity;  
globalization>sustainability; globalization>tax; globalization>technology; globalization>the internet; globalization>tiger; globalization>trade;  
globalization>transport; globalization>transportation; globalization>travel; globalization>war; globalization>wealth; glove>baseball; glove>child; glove>cigarette; glove>confirmation;  
glove>cricket; glove>cycling; glove>evidence; glove>fashion; glove>finger; glove>garden; glove>gardening; glove>garment; glove>hand; glove>heat; glove>lady; glove>leather;  
glove>patient; glove>silk; glove>silver; glove>skateboard; glove>ski; glove>steering wheel; glove>thumb; glove>wheelchair; glove>wool; glove>wrist; goal>belief; goal>commerce;  
goal>cost; goal>customer; goal>emotion; goal>motivation; goal>person; goal>system; goalkeeper>ice hockey; goalkeeper>sport; goal>adolescent; goal>animal; goal>butter;  
goat>castle; goat>cheese; goat>cow; goat>curry; goat>devil; goat>erosion; goat>fish; goat>ice cream; goat>iron; goat>litre; goat>mammal; goat>milk; goat>offspring; goat>pet;  
goat>poverly; goat>religion; goat>saint; goat>sausage; goat>sheep; goat>spoon; goat>starvation; goat>tree; goat>weed; goat>vine; goat>wine; goat>yogurt; god>angel; god>body;  
god>existence; god>faith; god>gender; god>nature; god>necessity; god>plural; god>reason; god>revelation; god>saint; god>simplicity; god>soap opera; god>turkey; god>world;  
god>worship; gold>aluminium; gold>badge; gold>bronze; gold>cancer; gold>chemistry; gold>coin; gold>computer; gold>currency; gold>electronics; gold>evil;  
gold>geology; gold>icon; gold>inflation; gold>iron; gold>lead; gold>metal; gold>money; gold>ocean; gold>receipt; gold>satellite; gold>silver; gold>sun; gold>tin; gold>trophy;  
gold>vehicle; gold>weight; golf>sport; gossip>blackmail; gossip>celebrity; gossip>community; gossip>curiosity; gossip>information; gossip>popularity; gossip>reputation;  
gossip>scandal; gossip>self-esteem; gossip>sin; government>alliance; government>bureaucracy; government>capitalism; government>constitution; government>corruption;  
government>democracy; government>economics; government>election; government>empire; government>fear; government>hate; government>history; government>hospital;  
government>human rights; government>jury; government>liberty; government>majority; government>philosophy; government>police; government>policy; government>politics;  
government>republic; government>school; government>science; government>science fiction; government>socialism; government>synonym; government>terrorist; gram>kilogram;  
gram>metre; gram>water; grammar>communication; grammar>education; grammar>first language; grammar>learning; grammar>nationality; grammar>observation;  
grammar>phrase; grammar>primary school; grammar>punctuation; grammar>usage; grandchild>family; granddad>grandparent; granddaughter>family; grandfather>grandparent;  
grandma>grandparent; grandmother>grandparent; grandpa>grandparent; grandparents>aunt; grandparents>child; grandparents>cousin; grandparents>father; grandparent>gene;  
grandparent>mother; grandparent>parent; grandparent>plural; grandparent>uncle; grandsons>family; granny>chimney; granny>grandparent; grape>agriculture; grape>berry;  
grape>brain; grape>cancer; grape>fruit; grape>jam; grape>nerve; grape>vine; grape>wine; grape>vinegar; grape>vinegar; grape>chart; grape>diagram;  
graphics>animation; graphics>art; graphics>brand; graphics>business; graphics>concept; graphics>drawing; graphics>economics; graphics>engineering; graphics>game;  
graphics>geography; graphics>idea; graphics>illustration; graphics>image; graphics>newspaper; graphics>number; graphics>painting; graphics>paper; graphics>photograph;  
graphics>poster; graphics>science; graphics>space; graphics>symbol; graphics>video game; graphics>wood; grass>hand; grass>animal; grass>baseball; grass>beer; grass>cattle;  
grass>cereal; grass>clothing; grass>construction; grass>cricket; grass>desert; grass>dinosaur; grass>drought; grass>food; grass>fuel; grass>golf; grass>grain; grass>horse;  
grass>human; grass>kangaroo; grass>lawn; grass>paper; grass>plant; grass>rabbit; grass>rice; grass>sheep; grass>sheep; grass>suburb; grass>tennis; grass>wheat; grass>whisky;  
grave>archaeology; grave>burial; grave>cemetery; grave>culture; grave>pyramid; grave>religion; grave>soul; grave>tomb; greatness>genius; greed>authority; greed>popularity;  
greed>robbery; green>blue; green>copper; green>devil; green>envy; green>experience; green>firework; green>fish; green>frog; green>gambling; green>grass; green>greed;  
green>health; green>hope; green>illness; green>insomnia; green>jealousy; green>laser; green>lead; green>leak; green>money; green>nature; green>perception; green>prostitute;  
green>protein; green>purple; green>red; green>traffic light; green>white; green>yellow; green>youth; greeting>culture; greeting>gesture; greeting>hug; greeting>telephone;  
greeting>tradition; grey>baseball; grey>black; grey>blue; grey>brain; grey>earth; grey>environmentalist; grey>fog; grey>green; grey>intellectual; grey>lead; grey>pink; grey>prayer;  
grey>profession; grey>red; grey>religion; grey>speed; grey>white; grey>yellow; grief>deer; grief>elephant; grief>laughter; grief>lion; grief>professor; grief>psychiatrist;  
grief>psychologist; grief>suicide; grief>terrorism; grief>widow; grill>restaurant; grin>smile; groom>bride; groom>spouse; ground>coffee; ground>law; ground>philosophy;  
ground>soil; ground>stadium; group>enemy; group>family; group>friend; group>gang; group>inmigrant; group>nationality; group>organization; group>supporter; growth>height;  
growth>interest; growth>money; guard>police; guest>hospitality; guidance>guide; guide>culture; guide>ecology; guide>fishing; guide>hunting; guide>salmon; guide>sport;  
guide>wilderness; guitar>bone; guitar>brass; guitar>cable; guitar>cello; guitar>folk; guitar>jazz; guitar>leather; guitar>plastic; guitar>radio; guitar>ratio; guitar>violin;  
guitarist>fingerail; guitarist>guitar; guitarist>jazz; guitarist>magazine; guitarist>singing; guitarist>website; gum>chewing gum; gun>sound; gun>weapon; gym>curriculum;  
gym>education; gym>gymnastics; gymnastics>ballet; gymnastics>dance; gymnastics>sport; habit>habitat; habitat>animal; habitat>plant; habitat>population; habitat>predator;  
habitat>species; hail>airport; hail>atmosphere; hail>ice; hail>rocket; hail>thunderstorm; hail>tornado; hail>water; hail>wind; hair>blade; hair>cat; hair>communication; hair>dir;  
hair>dust; hair>ear; hair>euro; hair>eyebrow; hair>eyelash; hair>face; hair>fur; hair>gender; hair>haircut; hair>hand; hair>mammal; hair>milk; hair>punishment; hair>rain;  
hair>scissors; hair>sweat; hairdresser>barber; hairdresser>comb; hairdresser>electricity; hairdresser>hair; hairdresser>scissors; hairdresser>slavery; hairdresser>spirit;  
hall>apartment; hall>architecture; hall>building; hall>castle; hall>college; hall>community; hall>corridor; hall>kitchen; hall>library; hall>office; hall>theatre; hall>university;  
ham>cholesterol; ham>meat; ham>protein; ham>sandwich; ham>steak; hammer>bone; hammer>force; hammer>muscle; hammer>speed; hammer>tool; hammer>war;  
hammer>weapon; hammer>wood; hand>animal; hand>bird; hand>dinosaur; hand>evolution; hand>finger; hand>foot; hand>grasp; hand>human; hand>mammal; hand>medicine;  
hand>monkey; hand>paw; hand>skeleton; hand>thumb; hand>wrist; handbag>coin; handbag>contraception; handbag>crocodile; handbag>mobile phone; handbag>security;  
handbag>strap; handbag>wallet; handkerchief>cotton; handkerchief>fashion; handkerchief>hand; handkerchief>handbag; handkerchief>hygiene; handkerchief>linen;  
handkerchief>pocket; handkerchief>silk; handle>gambling; handout>college; handout>gift; handout>homelessness; handout>welfare; handwritings>signature; happiness>biology;  
happiness>philosophy; happiness>pleasure; happiness>psychology; happiness>religion; happiness>symbol; happiness>well-being; happiness>virtue; harassment>discrimination;  
hardware>medal; harm>death; harm>disability; harm>law; harm>liberty; harm>pain; harm>pleasure; harm>skill; harm>well-being; harmony>jazz; harmony>melody; harmony>music;  
harmony>performance; harmony>tradition; harvest>agriculture; harvest>cereal; harvest>crop; harvest>energy; harvest>farm; harvest>fish; harvest>season;  
harvest>timber; harvest>wine; hat>cotton; hat>cricket; hat>face; hat>ribbon; hat>sheep; hat>ski; hat>straw; hat>wool; hate>hatred; hatred>anger; hatred>crime; hatred>disability;  
hatred>discrimination; hatred>emotion; hatred>gossip; hatred>harassment; hatred>language; hatred>nationality; hatred>prejudice; hatred>religion; hatred>revenge;  
hatred>sex; hazard>accident; hazard>chemical; hazard>disaster; hazard>emergency; hazard>global warming; hazard>health; hazard>life; hazard>possibility; hazard>property;  
hazard>punishment; hazard>risk; hazard>volcano; head>brain; head>ear; head>eye; head>face; head>face; head>mouth; head>nose; head>taste; headache>anxiety; headache>boy;  
headache>cancer; headache>child; headache>cough; headache>diary; headache>fever; headache>food; headache>head; headache>infection; headache>medication;  
headache>neck; headache>nerves; headache>pain; headache>sleep; headache>stroke; headache>symptom; headache>water; headache>weather; headache>virus;  
heading>headline; heading>volleyball; headline>humour; headline>publisher; headquarters>corporation; headquarters>finance; headquarters>marketing;  
headquarters>organization; headquaters>turkey; health care>cancer; health care>clinic; health care>diagnosis; health care>disability; health care>disease; health care>donation;  
health care>health; health care>hospital; health care>illness; health care>insurance; health care>medicine; health care>nurse; health care>pharmacist; health care>pharmacy;  
health care>professional; health care>regulation; health care>surgery; health care>vaccination; health care>wheelchair; health>air; health>alcohol; health>biology; health>body;  
health>child; health>continent; health>country; health>culture; health>disease; health>education; health>exercise; health>gender; health>genetics; health>health care;  
health>house; health>human; health>hygiene; health>illness; health>injury; health>literacy; health>manufacturing; health>medicine; health>nutrition; health>obesity;  
health>outbreak; health>pain; health>person; health>pharmacy; health>physics; health>psychology; health>research; health>safety; health>sleep; health>smoking;  
health>vaccination; health>water; health>well-being; health>world; heart>animal; heart>bird; heart>blood; heart>copper; heart>crab; heart>fat; heart>insect; heart>lion; heart>liver;  
heart>lung; heart>mammal; heart>muscle; heart>protein; heart>reptile; heart>spider; heart>spider; heart>ugar; heart>vein; heart>chemistry; heart>energy; heart>engineering; heart>kilogram;  
heart>life; heart>physics; heat>steam; heat>sun; heat>temperature; heat>thermometer; heaven>angel; heaven>earth; heaven>faith; heaven>fiction; heaven>god; heaven>hell;  
heaven>nature; heaven>paradise; heaven>prayer; heaven>science fiction; heaven>sin; heaven>sky; heaven>virtue; hedge>century; hedge>climate; hedge>count; hedge>fence;  
hedge>flower; hedge>garden; hedge>privacy; hedge>road; hedge>wildlife; heel>foot; heel>knee; height>dimension; height>distance; height>genetics; height>length;  
height>mountain; height>nutrition; height>pie; height>statistics; height>width; heir>inheritance; helicopter>ambulance; helicopter>flight; helicopter>mechanic; helicopter>recreation;

helicopter>tourism; helicopter>transport; hell>atmosphere; hell>cartoon; hell>death; hell>devil; hell>earth; hell>fantasy; hell>god; hell>heaven; hell>hypocrisy; hell>paradise; hell>punishment; hell>religion; hell>sin; hell>sky; hell>soul; hell>torture; helmet>arrow; helmet>bronze; helmet>cap; helmet>construction; helmet>iron; helmet>leather; helmet>mining; helmet>plastic; helmet>steel; helmet>straw; helmet>sunglasses; helmet>sword; helmet>tank; help>emergency; herb>bark; herb>berry; herb>flower; herb>food; herb>fruit; herb>leaf; herb>orange; herb>root; herb>seed; herb>spice; herb>tree; herb>vegetable; heritage>birth; heritage>inheritance; hero>archaeology; hero>biography; hero>civilization; hero>courtesy; hero>economics; hero>film; hero>fantasy; hero>film; hero>geography; hero>globalization; hero>protagonist; hero>quest; hero>warrior; hesitation>pause; hierarchy>animation; hierarchy>atom; hierarchy>authority; hierarchy>carbon; hierarchy>chest; hierarchy>colleague; hierarchy>complexity; hierarchy>concept; hierarchy>diagram; hierarchy>diamond; hierarchy>dimension; hierarchy>entity; hierarchy>god; hierarchy>government; hierarchy>hand; hierarchy>hair; hierarchy>hell; hierarchy>human; hierarchy>importance; hierarchy>individual; hierarchy>inheritance; hierarchy>learning; hierarchy>matter; hierarchy>music; hierarchy>nation; hierarchy>nature; hierarchy>object; hierarchy>organization; hierarchy>parent; hierarchy>structure; hierarchy>supervisor; hierarchy>system; hierarchy>triangle; hierarchy>university; hierarchy>verb; hill>cheese; hill>erosion; hill>geology; hill>golf; hill>mountain; hill>soil; hill>volcano; hip>birth; hip>fashion; hip>joint; hip>shoulder; historian>archaeology; historian>economics; historian>narrative; historian>philosophy; historian>politics; historian>psychology; historian>seminar; history>archaeology; history>art; history>communication; history>continent; history>credibility; history>culture; history>decade; history>economics; history>evidence; history>experience; history>fantasy; history>gender; history>geography; history>historian; history>imagination; history>information; history>integrity; history>legend; history>memory; history>narrative; history>philosophy; history>poetry; history>politics; history>poverty; history>propaganda; history>reason; history>science; history>theory; hobby>air conditioning; hobby>amateur; hobby>art; hobby>balcony; hobby>book; hobby>climbing; hobby>comic; hobby>cooking; hobby>dancing; hobby>digestion; hobby>enthusiasm; hobby>fire; hobby>fishing; hobby>garden; hobby>gardener; hobby>gardening; hobby>heating; hobby>hill; hobby>house; hobby>journalism; hobby>label; hobby>landscape; hobby>leisure; hobby>literature; hobby>magazine; hobby>newspaper; hobby>park; hobby>photography; hobby>pottery; hobby>professional; hobby>recreation; hobby>robot; hobby>robot; hobby>singing; hobby>tool; hobby>tourism; hobby>trail; hobby>vocabulary; hockey>ball; hockey>disability; hockey>ice hockey; hockey>tennis; hold>grasp; hole>opening; holiday>faith; holiday>religion; home>apartment; home>city; home>cooking; home>country; home>emotion; home>family; home>habitat; home>hat; home>homelessness; home>household; home>institution; home>prison; home>residence; home>safety; home>suburb; home>town; homelessness>airport; homelessness>bus; homelessness>caf  ; homelessness>college; homelessness>disability; homelessness>disaster; homelessness>dissertation; homelessness>earthquake; homelessness>hotel; homelessness>hypocrisy; homelessness>litter; homelessness>male; homelessness>park; homelessness>poverty; homelessness>prison; homelessness>running; homelessness>tent; homelessness>unemployment; homelessness>van; homelessness>war; homework>computer; homework>education; homework>essay; homework>learning; homework>research; homework>school; homework>student; homework>teacher; homework>teaching; homework>writing; honesty>fair; honesty>integrity; honesty>lie; honesty>loyalty; honesty>proverb; honesty>sincerity; honesty>truth; honey>acid; honey>bee; honey>beer; honey>bread; honey>cooking; honey>cotton; honey>crystal; honey>density; honey>dust; honey>food; honey>glass; honey>ladder; honey>milk; honey>pollution; honey>solution; honey>sugar; honey>symbol; honey>tea; honey>turkey; honey>water; honey>vitamin; honeymoon>pleasure; honeymoon>wedding; honour>cash; honour>celebrity; honour>conscience; honour>crime; honour>culture; honour>dignity; honour>family; honour>frontier; honour>gang; honour>government; honour>individual; honour>integrity; honour>law; honour>love; honour>lyrics; honour>medal; honour>nation; honour>privilege; honour>property; honour>rape; honour>reputation; honour>revenge; honour>school; honour>shame; honour>society; honour>stereotype; honour>turkey; honour>virtue; hope>disappointment; hope>fantasy; hope>fear; hope>heaven; hope>optimism; hope>psychology; horizon>circle; horizon>communication; horizon>dawn; horizon>earth; horizon>landscape; horizon>radio; horizon>sky; horizon>storey; horn>saddle; horn>telephone; horse>advertising; horse>animal; horse>ankle; horse>cello; horse>cerial; horse>concept; horse>donkey; horse>extinction; horse>family; horse>farm; horse>gene; horse>genetics; horse>heel; horse>instinct; horse>mammal; horse>pony; horse>prison; horse>reptile; horse>saddle; horse>stable; horse>vaccination; horse>water; horse>violin; horse>wrist; hospital>ambulance; hospital>business; hospital>campus; hospital>cathedral; hospital>clinic; hospital>diagnosis; hospital>disease; hospital>grammar; hospital>health; hospital>health care; hospital>hospitality; hospital>hostel; hospital>hotel; hospital>injury; hospital>mosque; hospital>nurse; hospital>partnership; hospital>patient; hospital>surgeon; hospital>surgery; hospitality>entertainment; host>hospitality; host>presenter; hostage>crime; hostage>employer; hostage>government; hostage>metaphor; hostage>police officer; hostage>terrorism; hostage>turkey; hostels>carnival; hostels>castle; hostels>climbing; hostels>travel; hostility>aggression; hostility>anger; hostility>denial; hostility>synonym; hotel>air conditioning; hotel>cave; hotel>definite article; hotel>hostel; hotel>investor; hotel>resort; hotel>telephone; hotel>tourism; hotel>turkey; hour>century; hour>clock; hour>energy; hour>minute; hour>opera; hour>public transport; hour>second; hour>speed; hour>tide; hour>time; hour>wage; house>architect; house>architecture; house>basement; house>bathroom; house>bedroom; house>brick; house>building; house>comfort; house>concrete; house>construction; house>dining room; house>door; house>earthquake; house>economics; house>family; house>fireplace; house>hall; house>home; house>household; house>kitchen; house>lead; house>library; house>living room; house>loft; house>office; house>pet; house>privacy; house>prosperity; house>shower; house>staircase; house>technology; house>television; house>toilet; house>weather; house>wildlife; house>window; house>wood; house>workshop; household>disability; household>employment; household>family; household>government; household>home; household>housework; household>income; household>inheritance; household>living room; household>meal; housewife>career; housewife>cooking; housewife>economist; housewife>employment; housewife>factory; housewife>family; housewife>farming; housewife>fruit; housewife>grain; housewife>home; housewife>homework; housewife>household; housewife>nutrition; housewife>rice; housewife>sewing; housewife>vegetable; housewife>volunteer; housing>home; housing>house; hug>affection; hug>arm; hug>child; hug>doll; hug>dog; hug>dolphin; hug>friendship; hug>greeting; hug>hip; hug>kiss; hug>love; hug>sympathy; hug>teenager; human rights>abortion; human rights>belief; human rights>capitalism; human rights>child; human rights>climate change; human rights>concept; human rights>contraception; human rights>discrimination; human rights>education; human rights>justice; human rights>peace; human rights>religion; human rights>right; human rights>slavery; human rights>socialism; human rights>treaty; human rights>violence; human rights>woman; human rights>worship; human>adult; human>agriculture; human>aircraft; human>archaeology; human>art; human>artificial intelligence; human>belief; human>boy; human>bureaucracy; human>buyer; human>childhood; human>city; human>civilization; human>climate change; human>clothing; human>comedy; human>commodity; human>communication; human>competition; human>consciousness; human>construction; human>continent; human>cooking; human>crime; human>culture; human>democracy; human>digestion; human>discipline; human>discussion; human>drama; human>dream; human>duty; human>earnings; human>earring; human>earth; human>economics; human>empire; human>entertainment; human>envy; human>evolution; human>exercise; human>existence; human>family; human>female; human>fire; human>gene; human>genetics; human>girl; human>global warming; human>globalization; human>god; human>government; human>hair; human>happiness; human>hate; human>health; human>hierarchy; human>humanity; human>hunting; human>idea; human>incentive; human>information; human>jealousy; human>language; human>law; human>literature; human>logic; human>love; human>male; human>mammal; human>man; human>manufacturing; human>market; human>marriage; human>mind; human>mobile phone; human>motivation; human>narrative; human>nation; human>obesity; human>painting; human>perception; human>philosopher; human>philosophy; human>pleasure; human>politics; human>pollution; human>pottery; human>privilege; human>psychology; human>question; human>racism; human>reason; human>reasoning; human>religion; human>reproduction; human>revolution; human>ritual; human>science; human>self-awareness; human>seller; human>sense; human>sleep; human>society; human>soldier; human>soul; human>space; human>species; human>spirit; human>suffering; human>technology; human>thought; human>tool; human>trade; human>tragedy; human>transport; human>tribe; human>wealth; human>vegetarian; human>violence; human>woman; human>humanity; human>humility; human>god; human>heaven; human>pride; human>strategy; human>truth; human>virtue; human>ambiguity; human>amusement; human>comedy; human>contradiction; human>culture; human>education; human>intelligence; human>irony; human>laughter; human>metaphor; human>paradox; human>psychology; human>reality; human>smile; human>disease; hunger>famine; hunger>food; hunger>starvation; hunting>arrow; hunting>bat; hunting>bear; hunting>bone; hunting>deer; hunting>environmentalist; hunting>extinction; hunting>fish; hunting>fishing; hunting>fox; hunting>fur; hunting>habitat; hunting>infrastructure; hunting>jungle; hunting>language; hunting>lead; hunting>lion; hunting>mammal; hunting>pig; hunting>predator; hunting>prison; hunting>rabbit; hunting>recreation; hunting>regulation; hunting>ritual; hunting>trophy; hunting>webcam; hunting>wildlife; hunting>wolf; husband>authority; husband>crime; husband>divorce; husband>father; husband>male; husband>marriage; husband>profession; husband>society; husband>spouse; husband>wedding; husband>wife; hygiene>acre; hygiene>bandage; hygiene>cap; hygiene>cold; hygiene>cooking; hygiene>culture; hygiene>cutlery; hygiene>flu; hygiene>gender; hygiene>hairstresser; hygiene>health; hygiene>perfume; hygiene>scent; hygiene>shower; hygiene>soap; hygiene>surgery; hygiene>toilet; hyphen>adjective; hyphen>adverb; hyphen>comma; hyphen>dash; hyphen>punctuation; hyphen>recreation; hyphen>surname; hyphen>syllable; hyphen>word; hypocrisy>irony; hypocrisy>paradox; hypothesis>calculation; hypothesis>concept; hypothesis>entity; hypothesis>experience; hypothesis>experiment; hypothesis>explanation; hypothesis>laboratory; hypothesis>logic; hypothesis>nature; hypothesis>observation; hypothesis>phenomenon; hypothesis>prediction; hypothesis>proposition; hypothesis>reasoning; hypothesis>research; hypothesis>theory; hypothesis>virtue; ice cream>chocolate; ice cream>cream; ice cream>crystal; ice cream>dessert; ice cream>juice; ice cream>milk; ice cream>pension; ice cream>protein; ice cream>sugar; ice cream>yogurt; ice hockey>cricket; ice hockey>ice skating; ice hockey>recreation; ice hockey>rubber; ice skating>emperor; ice skating>helmet; ice skating>ice; ice skating>ice hockey; ice skating>steel; ice>air; ice>atom; ice>carbon dioxide; ice>cloud; ice>dirt; ice>density; ice>fog; ice>frost; ice>hail; ice>heat; ice>ice hockey; ice>ice skating; ice>lake; ice>liquid; ice>metal; ice>oxygen; ice>road; ice>soil; ice>thunderstorm; ice>truck; ice>water; ice>>window; iceberg>density; iceberg>erosion; iceberg>satellite; icon>angel; icon>paper; icon>peasant; icon>saint; icon>symbol; idea>concept; idea>creativity; idea>evolution; idea>experiment; idea>fish; idea>gene; idea>horse; idea>human; idea>image; idea>imagination; idea>liberty; idea>man; idea>memory; idea>perception; idea>property; idea>psychologist; idea>selection; idea>understanding; idea>woman; identity>entity; idiom>clich  ; idiom>collocation; idiom>definition; idiom>verb; idiot>democracy; idiot>government; idiot>ignorance; idiot>stupidity; idol>worship; ignorance>awareness; ignorance>innocence; ignorance>knowledge; ignorance>literacy; ignorance>stupidity; ignorance>wisdom; illusion>perception; illusion>sense; illusion>sound; illustration>diagram; illustration>drawing; illustration>image; illustration>ink; illustration>painting; illustration>pen; illustration>photograph; illustration>video game; image>animation; image>camera; image>dimension; image>drawing; image>film; image>graphics; image>map; image>mirror; image>painting; image>paper; image>person; image>photograph; image>photography; image>status; image>telescope; image>video; imagination>art; imagination>belief; imagination>creativity; imagination>fantasy; imagination>fear; imagination>fiction; imagination>hypothesis; imagination>idea; imagination>language; imagination>mind; imagination>myth; imagination>narrative; imagination>perception; imagination>pleasure; imagination>probability; imagination>psychology; imagination>science fiction; imagination>suffering; imagination>truth; imitation>animal; imitation>curiosity; imitation>empathy; imitation>experiment; imitation>information; imitation>intelligence; imitation>intention; imitation>learning; imitation>purpose; imitation>rat; imitation>reproduction; imitation>science; imitation>scientist; imitation>species; immigrant>immigration; immigration>arrest; immigration>citizen; immigration>climate; immigration>constitution; immigration>education; immigration>employment; immigration>human rights; immigration>poverty; immigration>racism; immigration>refugee; immigration>retirement; immigration>terrorism; immigration>tourist; immigration>war; immigration>welfare; immune system>acid; immune system>animal; immune system>antibiotic; immune system>bacteria; immune system>blood; immune system>cancer; immune system>cough; immune system>disease; immune system>evolution; immune system>fever; immune system>gene; immune system>infant; immune system>infection; immune system>insect; immune system>irritation; immune system>leaf; immune system>lung; immune system>mammal; immune system>medicine; immune system>obesity; immune system>plant; immune system>pregnancy; immune system>skin; immune system>stomach; immune system>vaccination; immune system>vaccine; immune system>virus; immune system>yogurt; impatience>patience; implementation>bureaucracy; implementation>code; implementation>design; implementation>plan; implementation>policy; implementation>solution; implementation>specification; implementation>system; import>commodity; import>consumer; import>customs; import>export; import>income; import>manufacturer; import>price; import>trade; impossibility>contract; impossibility>necessity; imprisonment>liberty; incentive>competition; incentive>corporation; incentive>curiosity; incentive>employment; incentive>slavery; incentive>volunteer; inch>centimetre; inch>length; inch>metre; inch>millimetre; inch>yard; income>economics; income>education; income>peace; income>society; independence>authority; independence>country; independence>nation; independence>revolution; independence>status; independence>violence; indication>sign; individual>biology; individual>consciousness; individual>gene; individual>independence; individual>law; individual>person; individual>philosophy; individual>selection; individual>statistics; individuality>individual; individuality>agriculture; industry>carriage; industry>coal; industry>computer; industry>economy; industry>electricity; industry>finance; industry>manufacturing; industry>market; industry>pollution; industry>robot; industry>steel; industry>infant; infant>adaptation; infant>bruise; infant>health; infant>hospital; infant>human; infant>infection; infant>milk; infant>offspring; infant>pregnancy; infant>toddler; infection>antibiotic; infection>bacteria; infection>blood; infection>body; infection>disease; infection>fever; infection>hygiene; infection>immune system; infection>joint; infection>mammal; infection>medicine; infection>symptom; infection>vaccination; infection>virus; infection>wound; infinitive>adverb; infinitive>clause; infinitive>gerund; infinitive>grammar; infinitive>noun; infinitive>verb; inflation>inflation; inflation>commodity; inflation>currency; inflation>demand; inflation>economics; inflation>economy; inflation>exchange rate; inflation>infrastructure; inflation>investment; inflation>recession; inflation>scarcity; inflation>stock;



inflation>stock market; inflation>unemployment; information>bit; information>cd-rom; information>communication; information>complexity; information>concept; information>data; information>dna; information>education; information>energy; information>feedback; information>form; information>knowledge; information>message; information>perception; information>physics; information>prediction; information>proposition; information>relevance; information>sequence; information>system; information>thought; information>uncertainty; information>understanding; infrastructure>airline; infrastructure>ambulance; infrastructure>architect; infrastructure>architecture; infrastructure>bridge; infrastructure>bus; infrastructure>business; infrastructure>city; infrastructure>climate change; infrastructure>coal; infrastructure>college; infrastructure>commerce; infrastructure>communication; infrastructure>consent; infrastructure>contract; infrastructure>corporation; infrastructure>cost; infrastructure>earthquake; infrastructure>economy; infrastructure>electricity; infrastructure>energy; infrastructure>exchange; infrastructure>factory; infrastructure>ferry; infrastructure>government; infrastructure>health care; infrastructure>hospital; infrastructure>institution; infrastructure>library; infrastructure>manufacturing; infrastructure>market; infrastructure>mobile phone; infrastructure>museum; infrastructure>nation; infrastructure>noise; infrastructure>organization; infrastructure>ownership; infrastructure>park; infrastructure>police; infrastructure>port; infrastructure>poverty; infrastructure>primary school; infrastructure>public transport; infrastructure>radio; infrastructure>recreation; infrastructure>road; infrastructure>school; infrastructure>secondary school; infrastructure>society; infrastructure>software; infrastructure>storm; infrastructure>sustainability; infrastructure>telecommunications; infrastructure>telephone; infrastructure>television; infrastructure>traffic light; infrastructure>trail; infrastructure>tram; infrastructure>transport; infrastructure>tunnel; infrastructure>university; infrastructure>water; infrastructure>weapon; infrastructure>vehicle; infrastructure>wheel; ingredient>cooking; ingredient>law; ingredient>mixture; ingredient>recipe; inheritance>death; inheritance>debt; inheritance>god; inheritance>government; inheritance>individual; inheritance>myth; inheritance>northeast; inheritance>property; inheritance>sex; inheritance>turkey; initial>paragraph; initiative>referendum; injury>accident; injury>bruise; injury>skin; injury>suicide; injury>war; injury>violence; injury>wound; injustice>justice; ink>brush; ink>crystal; ink>design; ink>image; ink>liquid; ink>pen; ink>sustainability; ink>writing; innocence>child; innocence>crime; innocence>evil; innocence>experience; innocence>fiction; innocence>guilt; innocence>ignorance; innocence>sin; innocence>white; innovation>business; innovation>capitalism; innovation>carbon footprint; innovation>comfort; innovation>convenience; innovation>convention; innovation>creativity; innovation>design; innovation>economics; innovation>education; innovation>efficiency; innovation>energy; innovation>engineering; innovation>globalization; innovation>government; innovation>hospital; innovation>idea; innovation>immigration; innovation>improvement; innovation>infrastructure; innovation>invention; innovation>manufacturing; innovation>market; innovation>material; innovation>productivity; innovation>regulation; innovation>research; innovation>society; innovation>technology; innovation>transportation; input>information; input>output; input>system; inquiry>analogy; inquiry>certainty; inquiry>curiosity; inquiry>diagnosis; inquiry>doubt; inquiry>hypothesis; inquiry>knowledge; inquiry>logic; inquiry>uncertainty; insect>adult; insect>agriculture; insect>animal; insect>ant; insect>bat; insect>bee; insect>bird; insect>blood; insect>butterfly; insect>carbon dioxide; insect>crab; insect>digestion; insect>evolution; insect>fat; insect>fly; insect>fruit; insect>genetics; insect>head; insect>honey; insect>human; insect>lung; insect>male; insect>mouth; insect>nutrition; insect>oxygen; insect>plant; insect>protein; insect>recycling; insect>robot; insect>sense; insect>silks; insect>species; insect>spider; insect>stomach; insect>wasp; insect>wheel; insect>wheel; insecurity>risk; insecurity>security; insight>artificial intelligence; insight>brand; insight>cause; insight>consumer; insight>fluency; insight>marketing; insight>mind; insight>perception; insight>psychology; insight>sleep; insomnia>anxiety; insomnia>disease; insomnia>fear; insomnia>herb; insomnia>longevity; insomnia>pain; insomnia>sleep; insomnia>withdrawal; inspection>document; inspection>review; inspection>x-ray; inspector>captain; inspector>detective; inspector>fraud; inspector>police; inspector>police station; inspiration>invention; instinct>aggression; instinct>consciousness; instinct>learning; instinct>life; instinct>mammal; instinct>motivation; instinct>nest; instinct>psychology; instinct>sex; institute>research; institute>university; institution>art; institution>behaviour; institution>business; institution>capitalism; institution>cooperation; institution>corporation; institution>country; institution>court; institution>culture; institution>education; institution>factory; institution>family; institution>government; institution>health care; institution>hospital; institution>individual; institution>industry; institution>institute; institution>judge; institution>language; institution>law; institution>marriage; institution>medicine; institution>money; institution>nation; institution>police; institution>prison; institution>religion; institution>research; institution>role; institution>school; institution>society; institution>university; instruction>teacher; instructor>professor; instructor>teacher; instrument>tool; insult>rudeness; insurance>advertising; insurance>aircraft; insurance>airport; insurance>basketball; insurance>business; insurance>cash; insurance>community; insurance>contract; insurance>credit card; insurance>death; insurance>decade; insurance>disability; insurance>disaster; insurance>discrimination; insurance>earthquake; insurance>education; insurance>family; insurance>fire; insurance>funeral; insurance>gambling; insurance>gender; insurance>golf; insurance>horse; insurance>investment; insurance>loan; insurance>market; insurance>millennium; insurance>money; insurance>pension; insurance>politics; insurance>probability; insurance>profession; insurance>regulation; insurance>religion; insurance>retirement; insurance>revolution; insurance>saving; insurance>speculation; insurance>statistics; insurance>tax; insurance>terrorism; insurance>theft; insurance>tornado; insurance>unemployment; insurance>wage; insurance>wealth; insurance>weather; insurance>volcano; integration>integrity; integrity>accuracy; integrity>bias; integrity>business; integrity>consciousness; integrity>doubt; integrity>honesty; integrity>hypocrisy; integrity>hypothesis; integrity>medicine; integrity>mind; integrity>politics; integrity>virtue; intellect>human; intellect>intellectual; intellect>intelligence; intellect>knowledge; intellect>logic; intellect>mind; intellect>profession; intellect>psychology; intellect>reality; intellect>truth; intellect>understanding; intellectual>art; intellectual>authority; intellectual>capitalism; intellectual>critic; intellectual>culture; intellectual>engineering; intellectual>essay; intellectual>evolution; intellectual>genetics; intellectual>intelligence; intellectual>journalist; intellectual>literacy; intellectual>literature; intellectual>medicine; intellectual>philosophy; intellectual>profession; intellectual>reason; intellectual>scholar; intellectual>socialism; intellectual>technology; intellectual>thought; intelligence>artificial intelligence; intelligence>bird; intelligence>communication; intelligence>definition; intelligence>dolphin; intelligence>elephant; intelligence>human; intelligence>knowledge; intelligence>learning; intelligence>mammal; intelligence>memory; intelligence>music; intelligence>parrot; intelligence>plan; intelligence>psychology; intelligence>reason; intelligence>science fiction; intelligence>scientist; intelligence>self-awareness; intelligence>understanding; intent>intention; intention>goal; intention>pyramid; interaction>feedback; interaction>gene; interaction>medication; interaction>medicine; interaction>physics; interaction>protein; interaction>science; interaction>statistics; interest>asset; interest>fee; interest>inflation; interest>money; interest>return; interest>spreadsheet; interest>theft; intervention>invasion; interview>question; intruder>intrusion; intrusion>earth; intrusion>erosion; intrusion>glass; intrusion>planet; intrusion>volcano; invasion>aggression; invasion>aircraft; invasion>archaeology; invasion>border; invasion>castle; invasion>coast; invasion>combat; invasion>communication; invasion>economics; invasion>entity; invasion>gold; invasion>government; invasion>infrastructure; invasion>navy; invasion>parachute; invasion>peace; invasion>philosophy; invasion>port; invasion>propaganda; invasion>radio; invasion>religion; invasion>river; invasion>silver; invasion>slavery; invasion>starvation; invasion>strategy; invasion>tank; invasion>technology; invasion>town; invasion>transportation; invasion>treaty; invasion>tribute; invasion>war; invasion>warrior; invention>architecture; invention>art; invention>creativity; invention>design; invention>experiment; invention>flight; invention>machine; invention>parachute; invention>photography; invention>train; invention>invention; investigation>detective; investigation>disease; investigation>research; investigator>detective; investigator>inspector; investment>asset; investment>bank; investment>economics; investment>economy; investment>factory; investment>finance; investment>gambling; investment>inflation; investment>insurance; investment>money; investment>risk; investment>speculation; investment>stock; investor>antique; investor>art; investor>business; investor>commodity; investor>currency; investor>investment; investor>stock; iron>agriculture; iron>aluminium; iron>bean; iron>brad; iron>building; iron>carbon; iron>carbon dioxide; iron>carbon monoxide; iron>copper; iron>dna; iron>earth; iron>fish; iron>heart; iron>liver; iron>mammal; iron>metal; iron>mining; iron>oxygen; iron>paint; iron>road; iron>sand; iron>ship; iron>steel; iron>water; ironing>cotton; ironing>linen; ironing>silks; ironing>washing machine; ironing>wool; ironing>wrinkle; irony>coward; irony>genius; irony>hypocrisy; irony>intelligence; irony>legend; irony>love; irony>paradox; irritation>alcohol; irritation>biology; irritation>empathy; irritation>immune system; irritation>mammal; irritation>monkey; irritation>obesity; irritation>pain; irritation>perception; irritation>rash; irritation>sense; irritation>tobacco; island>concrete; island>continent; island>coral; island>desert; island>geology; island>sand; island>tourism; island>waste; island>water; island>volcano; isolation>solitude; issue>child; issue>journal; issue>journal; issue>magazine; issue>newspaper; jacket>baseball; jacket>chemistry; jacket>denim; jacket>fashion; jacket>garment; jacket>hunting; jacket>raincoat; jacket>sailor; jacket>scientist; jacket>sleeve; jacket>student; jacket>sweater; jacket>waist; jail>prison; january>february; january>march; january>oak; january>summer; january>winter; january>year; jar>bottle; jargon>bit; jargon>capitalism; jargon>philosopher; jargon>slang; jaw>bone; jaw>fish; jaw>mouth; jaw>tooth; jazz>arrangement; jazz>harmony; jazz>melody; jazz>piano; jazz>singer; jazz>slang; jazz>violin; jealousy>adult; jealousy>anger; jealousy>competition; jealousy>disgust; jealousy>emotion; jealousy>empathy; jealousy>envy; jealousy>feeling; jealousy>psychologist; jealousy>resentment; jealousy>self-esteem; jealousy>synonym; jealousy>thought; jeans>copper; jeans>denim; jeans>teenager; jeans>trousers; jeans>turkey; jewel>jewellery; jewellery>archaeologist; jewellery>archaeology; jewellery>bone; jewellery>bracelet; jewellery>bronze; jewellery>coin; jewellery>copper; jewellery>culture; jewellery>diamond; jewellery>earring; jewellery>feather; jewellery>glass; jewellery>gold; jewellery>marriage; jewellery>metal; jewellery>necklace; jewellery>perfume; jewellery>plastic; jewellery>silver; jewellery>turkey; jewellery>wood; jogging>running; joint>bone; joint>elbow; joint>infection; joint>knee; joint>suffix; joint>wrist; joke>clown; joke>comedy; joke>disability; joke>elephant; joke>humour; joke>irony; joke>laughter; joke>literature; joke>nonsense; joke>paradox; joke>poetry; joke>racist; joke>rhythm; joke>science; joke>sex; joke>smile; joke>stereotype; journal>diary; journal>journalism; journal>journalist; journal>magazine; journal>newspaper; journal>parliament; journalism>accuracy; journalism>democracy; journalism>disability; journalism>discrimination; journalism>newspaper; journalism>religion; journalism>truth; journalism>war; journalist>combat; journalist>critic; journalist>information; journalist>interview; journalist>journalism; journalist>microphone; journalist>murder; journalist>news; journalist>photography; journalist>research; journalist>turkey; journey>travel; joy>happiness; judge>black; judge>chancellor; judge>court; judge>jury; judge>law; judge>lawyer; judge>magistrate; judge>politics; judge>profession; judge>professor; judge>prosecutor; judge>red; judge>referee; judge>solicitor; jug>breast; jug>kettle; jug>prison; juice>bacteria; juice>café; juice>fruit; juice>liquid; juice>meat; juice>soft drink; juice>stroke; july>month; july>summer; july>winter; jump>year; jump>assault; jumper>sweater; june>day; june>december; june>month; june>rose; june>summer; june>winter; june>year; jungle>rainforest; jungle>wilderness; junk food>chewing gum; junk food>dessert; junk food>fast food; junk food>fat; junk food>pizza; junk food>salt; junk food>slang; junk food>sugar; junk food>waste; junk>scrap; junk>waste; junk>woman; jury>abortion; jury>accusation; jury>assault; jury>bribery; jury>competition; jury>court; jury>crime; jury>evidence; jury>judge; jury>justice; jury>murder; jury>prosecutor; jury>slavery; jury>terrorism; jury>trial; jury>verdict; justice>bias; justice>contract; justice>crime; justice>culture; justice>destiny; justice>disability; justice>discrimination; justice>gender; justice>generosity; justice>history; justice>human rights; justice>injustice; justice>judge; justice>jury; justice>law; justice>lawyer; justice>mercy; justice>nation; justice>need; justice>politician; justice>prison; justice>property; justice>punishment; justice>religion; justice>respect; justice>revenge; justice>slavery; justice>theft; justice>wealth; justice>verdict; kangaroo>animal; kangaroo>carbon dioxide; kangaroo>extinction; kangaroo>mammal; kangaroo>mouse; kangaroo>predator; kangaroo>protein; kangaroo>reptile; kangaroo>species; kangaroo>windscreen; keeper>goalkeeper; kettle>salmon; kettle>whistle; key>chart; kick>foot; kick>knee; kid>child; kidney>adaptation; kidney>adjective; kidney>bean; kidney>bird; kidney>blood; kidney>carbon dioxide; kidney>conscience; kidney>cooking; kidney>fish; kidney>liver; kidney>mammal; kidney>protein; kidney>reptile; kidney>rib; kidney>water; killer>murderer; killing>death; kilo>kilogram; kilogram>carbon; kilogram>credit card; kilogram>density; kilogram>energy; kilogram>force; kilogram>gold; kilogram>gram; kilogram>lead; kilogram>litre; kilogram>metre; kilogram>millimetre; kilogram>ozone; kilogram>pressure; kilogram>uncertainty; kilogram>weight; kilometre>cycling; kilometre>length; kilometre>metre; kilometre>mile; kilometre>millimetre; kilometre>slang; kilometre>yard; kind>kindness; kindness>disposition; kindness>emotion; kindness>empathy; kindness>envy; kindness>generosity; kindness>love; kindness>sympathy; kindness>virtue; kindom>realm; kiss>adolescent; kiss>affection; kiss>cholesterol; kiss>friendship; kiss>greeting; kiss>hug; kiss>lip; kiss>love; kiss>muscle; kiss>peace; kiss>prayer; kiss>respect; kiss>temple; kiss>tongue; kiss>wedding; kit>collection; kit>component; kit>fox; kit>kitten; kitchen>aircraft; kitchen>apartment; kitchen>architect; kitchen>art; kitchen>basement; kitchen>bathroom; kitchen>brass; kitchen>bronze; kitchen>camping; kitchen>castle; kitchen>catering; kitchen>chimney; kitchen>climate; kitchen>coal; kitchen>cooking; kitchen>copper; kitchen>cupboard; kitchen>dining room; kitchen>dishwasher; kitchen>electricity; kitchen>factory; kitchen>fast food; kitchen>fire; kitchen>fireplace; kitchen>flour; kitchen>hall; kitchen>hospital; kitchen>hotel; kitchen>industrialization; kitchen>iron; kitchen>laboratory; kitchen>laundry; kitchen>mansion; kitchen>oven; kitchen>pottery; kitchen>pump; kitchen>railway; kitchen>restaurant; kitchen>rice; kitchen>ship; kitchen>sink; kitchen>slavery; kitchen>smoke; kitchen>society; kitchen>staircase; kitchen>steak; kitchen>triangle; kitchen>wood; kitchen>yacht; kitchen>aircraft; kite>art; kite>ballet; kite>beach; kite>cotton; kite>electricity; kite>fence; kite>lightning; kite>linen; kite>observation; kite>paper; kite>recreation; kite>rope; kite>silks; kitten>birth; kitten>cat; kitten>eye; kitten>female; kitten>male; kitten>puppy; knee>baby; knee>bone; knee>joint; knee>surgery; knee>thigh; knee>x-ray; knife>blade; knife>bread; knife>bronze; knife>carbon; knife>cooking; knife>copper; knife>cutlery; knife>fish; knife>fork; knife>iron; knife>leather; knife>meat; knife>plastic; knife>produce; knife>ritual; knife>rubber; knife>spoon; knife>steel; knife>sword; knife>wood; knob>mountain; knot>chain; knot>climbing; knot>donkey; knot>joke; knot>puzzle; knot>rope; knot>strap; knowledge>belief; knowledge>certainty; knowledge>chair; knowledge>content; knowledge>data; knowledge>debate; knowledge>description; knowledge>education; knowledge>evidence; knowledge>experience; knowledge>experiment; knowledge>fact; knowledge>geography; knowledge>history; knowledge>information; knowledge>inquiry; knowledge>intelligence; knowledge>intensity; knowledge>learning; knowledge>measurement; knowledge>narrative; knowledge>observation; knowledge>perception; knowledge>philosopher; knowledge>philosophy; knowledge>reasoning;

knowledge>science; knowledge>space; knowledge>truth; knowledge>wisdom; knuckle>finger; knuckle>fist; knuckle>hand; knuckle>joint; lab>laboratory; label>banana; label>black; label>cloth; label>image; label>ink; label>metal; label>paper; label>plastic; label>recycling; label>retail; label>sandwich; label>sewing; label>shirt; label>wine; laboratory>biology; laboratory>chemistry; laboratory>computer; laboratory>data; laboratory>emergency; laboratory>experiment; laboratory>explosive; laboratory>government; laboratory>industry; laboratory>laser; laboratory>machinery; laboratory>measurement; laboratory>physics; laboratory>poison; laboratory>psychology; laboratory>research; laboratory>safety; laboratory>school; laboratory>science; laboratory>scientist; laboratory>ship; laboratory>thermometer; laboratory>university; laboratory>workshop; labour>employment; labour>workforce; ladder>aluminium; ladder>bruiise; ladder>honey; ladder>roof; ladder>rope; ladder>wall; ladder>wood; lady>woman; lake>acre; lake>bay; lake>climate; lake>continent; lake>crocodile; lake>density; lake>erosion; lake>fish; lake>force; lake>friction; lake>geography; lake>industry; lake>mineral water; lake>pond; lake>recreation; lake>river; lake>salt; lake>sand; lake>stream; lake>temperature; lake>turkey; lake>volcano; lamb>sheep; land>country; land>earth; land>landing; land>landscape; land>nation; landing>aircraft; landing>airport; landing>animal; landing>concrete; landing>flight; landing>parachute; landing>parade; landing>weather; landing>weight; landing>wind; landlady>landlord; landlord>apartment; landlord>contract; landlord>female; landlord>house; landlord>property; landmark>building; landmark>exploration; landmark>geography; landmark>monument; landmark>structure; landmark>tourist; landscape>beauty; landscape>coast; landscape>desert; landscape>earth; landscape>forest; landscape>geography; landscape>island; landscape>lake; landscape>mountain; landscape>perception; landscape>philosophy; landscape>river; landscape>sea; landscape>sky; landscape>theatre; landscape>weather; landscape>vegetation; lane>ambulance; lane>motorway; lane>road; lane>rush hour; lane>traffic light; language>adjective; language>argument; language>bee; language>code; language>communication; language>consonant; language>culture; language>dialect; language>entertainment; language>evolution; language>first language; language>globalization; language>grammar; language>human; language>idiom; language>information; language>mind; language>music; language>noun; language>phrase; language>prefix; language>speech; language>suffix; language>syllable; language>system; language>verb; language>vocabulary; language>word; language>vowel; lap>computer; lap>knee; lap>laptop; laptop>cd-rom; laptop>computer; laptop>floor; laptop>hard drive; laptop>theft; laser>atom; laser>cd player; laser>cd-rom; laser>chemistry; laser>crystal; laser>energy; laser>feedback; laser>light; laser>physics; laser>radiation; laser>razor; laser>surgery; laser>technology; laser>thermometer; laugh>laughter; laughter>art; laughter>brain; laughter>consciousness; laughter>emotion; laughter>happiness; laughter>imagination; laughter>joke; laughter>literature; laughter>literature; laughter>memory; laughter>philosopher; laughter>relief; laughter>sensibility; laughter>twin; launch>lunch; laundry>clothing; laundry>fat; laundry>ironing; laundry>linen; laundry>pink; laundry>soap; laundry>washing machine; laundry>water; laundry>wool; law>authority; law>bureaucracy; law>chancellor; law>civilization; law>climate change; law>consideration; law>constitution; law>economics; law>history; law>human rights; law>jury; law>justice; law>lawyer; law>magistrate; law>necessity; law>negligence; law>nuisance; law>people; law>philosophy; law>politics; law>pollution; law>precedent; law>prison; law>property; law>slavery; law>society; law>system; law>vote; law>audience; law>baseball; law>cricket; law>drought; law>garden; law>gardening; law>golf; law>grass; law>habitat; law>herb; law>hockey; law>landscape; law>park; law>province; law>sheep; law>smog; law>tennis; law>town; law>water; law>weed; lawyer>business; lawyer>consideration; lawyer>court; lawyer>deception; lawyer>fee; lawyer>government; lawyer>journalist; lawyer>judge; lawyer>jury; lawyer>justice; lawyer>law; lawyer>politician; lawyer>profession; lawyer>prosecutor; lawyer>solicitor; laziness>economist; laziness>golf; laziness>motivation; laziness>poet; laziness>predator; laziness>psychology; laziness>rat; laziness>scientist; lead>brain; lead>brass; lead>bullet; lead>carbon dioxide; lead>copper; lead>density; lead>iron; lead>metal; lead>recycling; lead>silver; lead>tin; lead>x-ray; leader>leadership; leadership>animal; leadership>career; leadership>charisma; leadership>competition; leadership>creativity; leadership>criticism; leadership>earth; leadership>effectiveness; leadership>efficiency; leadership>empathy; leadership>feedback; leadership>gene; leadership>goal; leadership>hero; leadership>intelligence; leadership>leader; leadership>performance; leadership>politics; leadership>praise; leadership>priest; leadership>skill; leadership>strategy; leadership>structure; leadership>task; leadership>team; leadership>validity; leadership>violence; leaf>animal; leaf>atmosphere; leaf>autumn; leaf>bean; leaf>bulb; leaf>carbon dioxide; leaf>evolution; leaf>food; leaf>grass; leaf>human; leaf>insect; leaf>leaflet; leaf>light; leaf>oak; leaf>onion; leaf>oxygen; leaf>pea; leaf>plant; leaf>poison; leaf>protein; leaf>red; leaf>rose; leaf>species; leaf>sunlight; leaf>water; leaf>yellow; leaflet>leaf; leak>air conditioning; leak>brake; leak>construction; leak>explosion; leak>explosive; leak>fluid; leak>gas; leak>heart; leak>liquid; leak>plumber; leak>pressure; leak>soap; leak>sound; leak>steam; leak>temperature; leak>water; leak>vehicle; leak>weight; learner>learning; learning>bird; learning>chess; learning>dance; learning>education; learning>energy; learning>infection; learning>information; learning>injury; learning>knowledge; learning>mammal; learning>motivation; learning>observation; learning>owl; learning>predator; learning>preference; learning>psychology; learning>recollection; learning>skill; learning>teaching; learning>training; leather>aluminium; leather>cow; leather>cattle; leather>cod; leather>cow; leather>crocodile; leather>deer; leather>drum; leather>fruit; leather>ironing; leather>kangaroo; leather>leaf; leather>luggage; leather>plastic; leather>protein; leather>root; leather>saddle; leather>salmon; leather>salt; leather>shark; leather>snake; leather>wood; lecture>college; lecture>communication; lecture>computer; lecture>discussion; lecture>education; lecture>lesson; lecture>library; lecture>museum; lecture>observer; lecture>presentation; lecture>school; lecture>seminar; lecture>statistics; lecture>teacher; lecture>teacher; lecture>university; lecture>workshop; lecturer>lecture; lecturer>professor; lecturer>teacher; lecturer>university; leek>bulb; leek>garlic; leek>onion; leek>potato; leek>vegetable; leg>ankle; leg>bone; leg>column; leg>engine; leg>foot; leg>force; leg>insect; leg>knee; leg>muscle; leg>nerve; leg>skin; legend>donkey; legend>miracle; legend>narrative; legend>rumour; legend>saint; legislation>government; legislation>referendum; leisure>business; leisure>education; leisure>employment; leisure>hobby; leisure>pleasure; leisure>recreation; leisure>sleep; leisure>time; leisure>workaholic; lemon>acid; lemon>ice cream; lemon>immune system; lemon>juice; lemon>lemonade; lemon>soft drink; lemonade>drink; lemonade>garlic; lemonade>lemon; length>astronomy; length>dimension; length>distance; length>height; length>inch; length>kilometre; length>measurement; length>mile; length>wire; length>volume; length>yard; leopard>animal; leopard>bear; leopard>bird; leopard>desert; leopard>fish; leopard>fox; leopard>gene; leopard>insect; leopard>lion; leopard>mammal; leopard>monkey; leopard>rainforest; leopard>reptile; leopard>tiger; leopard>turkey; leopard>woodland; lesson>classroom; lesson>education; lesson>entertainment; lesson>learning; lesson>student; lesson>teacher; lesson>textbook; letter>litterature; lettuce>copper; lettuce>iron; lettuce>liver; lettuce>produce; lettuce>synonym; lettuce>weed; level>height; level>storey; liar>lie; liberty>authority; liberty>constitution; liberty>democracy; liberty>god; liberty>government; liberty>law; liberty>logic; liberty>nature; liberty>politics; liberty>religion; liberty>slavery; liberty>socialism; liberty>system; library>architecture; library>bookcase; library>document; library>dvd; library>history; library>information; library>monument; library>paper; library>parliament; library>silk; library>steel; library>turkey; lid>eyelid; lie>blame; lie>crime; lie>deception; lie>denial; lie>devil; lie>dishonesty; lie>irony; lie>paradox; lie>philosopher; lie>politeness; lie>punctuation; lie>revelation; lie>truth; lie>wolf; life>adaptation; life>animal; life>bacteria; life>biology; life>bird; life>carbon; life>coal; life>consciousness; life>death; life>dna; life>earth; life>ecology; life>evolution; life>existence; life>extinction; life>fish; life>gene; life>genetics; life>geology; life>habitat; life>hypothesis; life>insect; life>mammal; life>materialist; life>organization; life>oxygen; life>philosophy; life>plant; life>poison; life>predator; life>protein; life>relation; life>religion; life>reproduction; life>reptile; life>science; life>simulation; life>soil; life>species; life>spider; life>system; life>virus; light>city; light>cloud; light>earth; light>fire; light>glasses; light>heat; light>laser; light>lighting; light>matter; light>mirror; light>physics; light>radio; light>rainbow; light>sound; light>source; light>spectrum; light>sun; light>sunlight; light>telescope; light>temperature; light>time; light>wave; light>x-ray; lighter>cigarette; lighter>crystal; lighter>flame; lighter>match; lighting>angle; lighting>cable; lighting>candle; lighting>ceiling; lighting>daylight; lighting>electricity; lighting>energy; lighting>fire; lighting>headache; lighting>inspection; lighting>light; lighting>logo; lighting>metal; lighting>mirror; lighting>motorist; lighting>nightclub; lighting>office; lighting>pedestrian; lighting>picture; lighting>planet; lighting>red; lighting>shadow; lighting>torch; lighting>white; lighting>aircraft; lightning>cloud; lightning>electronics; lightning>energy; lightning>ozone; lightning>object; lightning>probability; lightning>radio; lightning>thunder; lightning>thunderstorm; lightning>tornado; lightning>volcano; lightning>x-ray; likelihood>commerce; likelihood>odds; likelihood>probability; likelihood>statistic; likelihood>statistics; limitation>experiment; line>airline; line>border; line>cable; line>chain; line>drawing; line>melody; line>railway; line>rope; line>writing; linen>cotton; linen>handkerchief; linen>inch; linen>leather; linen>shield; linen>shirt; linen>wool; link>chain; link>sausage; lion>animal; lion>circus; lion>crocodile; lion>culture; lion>deer; lion>dvd; lion>elephant; lion>forest; lion>giraffe; lion>leopard; lion>mammal; lion>rainforest; lion>snake; lion>tiger; lion>turkey; lion>zoo; lip>beak; lip>bird; lip>kiss; lip>mammal; lip>mouth; lip>nose; lip>skin; lip>smile; lip>soil; lip>alcohol; liquid>blood; liquid>carbon dioxide; liquid>density; liquid>engine; liquid>fluid; liquid>gas; liquid>ink; liquid>life; liquid>litre; liquid>milk; liquid>mixture; liquid>oil; liquid>paint; liquid>pressure; liquid>pump; liquid>rocket; liquid>soap; liquid>solution; liquid>temperature; liquid>thermometer; liquid>water; liquid>volume; literacy>elite; literacy>fluency; literacy>text; literacy>text message; literacy>thought; literacy>vocabulary; literacy>writing; literature>constitution; literature>dialogue; literature>drama; literature>essay; literature>fantasy; literature>festival; literature>fiction; literature>film; literature>history; literature>journalism; literature>law; literature>logic; literature>metaphor; literature>music; literature>nature; literature>novel; literature>opera; literature>paradigm; literature>performance; literature>philosophy; literature>poem; literature>poetry; literature>religion; literature>rhyme; literature>science fiction; literature>soap opera; literature>theatre; literature>tragedy; litre>bin; litre>fluid; litre>fuel; litre>kilogram; litre>metre; litre>paint; litre>water; litre>volume; litter>fish; litter>mosquito; litter>recycling; litter>toothbrush; litter>waste; litter>wildlife; liver>anger; liver>blood; liver>bruise; liver>caif; liver>cancer; liver>chicken; liver>cholesterol; liver>copper; liver>digestion; liver>eagle; liver>food; liver>friction; liver>infection; liver>iron; liver>protein; liver>sausage; liver>sheep; liver>skin; liver>snake; living room>bookcase; living room>chair; living room>fireplace; living room>furniture; living room>home; living room>home; living room>house; living room>room; living life; load>cargo; load>bread; loaf>rectangle; loan>asset; loan>bank; loan>contract; loan>credit card; loan>debt; loan>finance; loan>house; loan>interest; loan>money; loan>overdraft; loan>subsidy; loathing>hatred; loft>artist; loft>building; loft>choir; loft>floor; loft>industry; loft>roof; loft>sail; loft>storey; loft>studio; log>blog; log>diary; logic>argument; logic>artificial intelligence; logic>law; logic>philosophy; logic>proposition; logic>reason; logic>truth; logic>validity; logo>agriculture; logo>alphabet; logo>brand; logo>coin; logo>poster; logo>slogan; loneliness>anger; loneliness>art; loneliness>attention; loneliness>cancer; loneliness>cat; loneliness>child; loneliness>childhood; loneliness>cholesterol; loneliness>community; loneliness>creativity; loneliness>divorce; loneliness>dna; loneliness>dog; loneliness>emotion; loneliness>exercise; loneliness>friendship; loneliness>genetics; loneliness>grief; loneliness>health care; loneliness>hostility; loneliness>human; loneliness>learning; loneliness>love; loneliness>marriage; loneliness>memory; loneliness>musician; loneliness>nostalgia; loneliness>pet; loneliness>philosopher; loneliness>poet; loneliness>psychology; loneliness>rabbit; loneliness>religion; loneliness>research; loneliness>resentment; loneliness>shyness; loneliness>sleep; loneliness>solitude; loneliness>spouse; loneliness>stroke; loneliness>suicide; loneliness>therapy; loneliness>time; longevity>exercise; longevity>gender; longevity>genetics; longevity>health care; longevity>hygiene; longevity>industrialization; longevity>nutrition; longevity>obesity; longevity>peasant; longevity>science fiction; lorry>truck; loss>cost; loss>grief; loss>price; lottery>gambling; lottery>insurance; lottery>probability; lounge>hotel; lounge>living room; love>abortion; love>adult; love>affair; love>affection; love>biology; love>divorce; love>emotion; love>essence; love>explanation; love>friendship; love>god; love>hate; love>heart; love>hunger; love>immune system; love>kindness; love>mammal; love>marriage; love>neighbourhood; love>philosophy; love>proverb; love>psychologist; love>psychology; love>religion; love>socialist; love>thirst; love>virtue; love>virtue; loyalty>brand; loyalty>country; loyalty>death; loyalty>friendship; loyalty>person; loyalty>pet; loyalty>philosophy; loyalty>respect; loyalty>virtue; luck>baseball; luck>belief; luck>chess; luck>dice; luck>faith; luck>gambling; luck>game; luck>god; luck>intention; luck>lottery; luck>money; luck>philosopher; luck>probability; luck>risk; luck>ritual; luck>sacrifice; luck>witch; luggage>baggage; lunch>casserole; lunch>cheese; lunch>club; lunch>coconut; lunch>coffee; lunch>curry; lunch>dinner; lunch>fish; lunch>juice; lunch>meal; lunch>meat; lunch>milk; lunch>pizza; lunch>potato; lunch>restaurant; lunch>rice; lunch>yogurt; lunchtime>lunch; lung>animal; lung>bacteria; lung>breath; lung>carbon dioxide; lung>exercise; lung>fish; lung>frog; lung>heart; lung>infection; lung>mammal; lung>muscle; lung>oxygen; lung>reptile; lung>snake; lung>vein; lung>virus; lyrics>drama; lyrics>melody; lyrics>music; lyrics>opera; lyrics>poem; lyrics>poetry; lyrics>pronoun; lyrics>song; machine>brake; machine>clock; machine>clutch; machine>computer; machine>digestion; machine>electronics; machine>energy; machine>engine; machine>engineering; machine>force; machine>friction; machine>fuel; machine>gear; machine>goal; machine>heat; machine>industrialization; machine>logic; machine>muscle; machine>physics; machine>pump; machine>radio; machine>robot; machine>rope; machine>sail; machine>system; machine>technology; machine>television; machine>tool; machine>watch; machine>vehicle; machine>wheel; machine>wing; madam>inspector; madam>nr; madam>police; madam>sir; madam>magazine>advertising; magazine>mail; magazine>newspaper; magazine>publication; magic>spirit; magic>yoga; magistrate>advocate; magistrate>arrest; magistrate>brain; magistrate>court; magistrate>election; magistrate>human rights; magistrate>judge; magistrate>law; magistrate>market; magistrate>profession; magistrate>prosecutor; magistrate>riot; magistrate>solicitor; magistrate>title; mail>balloon; mail>bank; mail>bicycle; mail>biography; mail>customs; mail>document; mail>email; mail>envelope; mail>island; mail>jargon; mail>litterature; mail>mail; mail>newspaper; mail>post office; mail>postcard; mail>restaurant; mail>retail; mail>rocket; mail>signature; mail>social networking; mail>telephone; mail>terrorism; mail>university; mail>wedding; mail>writing; mail>x-ray; main course>dessert; main course>meal; main course>meat; main course>salad; main course>soup; main course>stomach; main course>vegetarian; majority>politics; male>ant; male>bee; male>bird; male>boy; male>female; male>flower; male>gender; male>genetics; male>gentleman; male>human; male>insect; male>iron; male>mammal; male>man; male>plant; male>reproduction; male>sex; male>worm; mammal>ant; mammal>bacteria; mammal>bat; mammal>bear; mammal>bird; mammal>camel; mammal>cat; mammal>cattle; mammal>deer; mammal>dinosaur;

mammal-dna; mammal-dog; mammal-donkey; mammal-elephant; mammal-giraffe; mammal-goat; mammal-hair; mammal-heart; mammal-horse; mammal-human; mammal-insect; mammal-intelligence; mammal-jaw; mammal-milk; mammal-mouse; mammal-neck; mammal-pig; mammal-polar bear; mammal-protein; mammal-rabbit; mammal-rat; mammal-reptile; mammal-sheep; mammal-skin; mammal-snake; mammal-species; mammal-stomach; mammal-zebra; man-adult; man-beauty; man-bone; man-boy; man-costume; man-culture; man-dna; man-education; man-family; man-father; man-female; man-friend; man-genetics; man-human; man-illness; man-infrastructure; man-king; man-literature; man-male; man-mammal; man-muscle; man-shoulder; man-society; man-song; man-woman; management-business; management-college; management-commerce; management-corporation; management-finance; management-goal; management-innovation; management-leadership; management-marketing; management-organization; management-ownership; management-plan; management-planning; management-psychology; management-science; management-textbook; management-management; mango-agriculture; mango-banana; mango-blood; mango-fibre; mango-flower; mango-frost; mango-fruit; mango-ice cream; mango-leaf; mango-pie; mango-roundabout; mango-salt; mango-seed; mango-silk; mango-supermarket; mango-tree; mango-wedding; mankind-human; mansion-castle; mansion-city; mansion-house; mansion-library; mansion-office; mansion-palace; mansion-railway; mansion-revolution; mansion-village; manual-hand; manufacturer-manufacturing; manufacturing-agriculture; manufacturing-aircraft; manufacturing-consumer; manufacturing-engineering; manufacturing-industry; manufacturing-infrastructure; manufacturing-machine; manufacturing-management; manufacturing-ownership; manufacturing-regulation; manufacturing-retailer; manufacturing-tool; map-border; map-dna; map-geography; map-measurement; map-rain; map-ratio; map-region; map-sign; map-space; map-sphere; map-survey; map-temperature; marathon-aspirin; marathon-immune system; marathon-liver; marathon-muscle; marathon-protein; march-autumn; march-day; march-friday; march-month; march-november; march-september; march-soil; march-sun; march-turkey; march-year; mark-football; market-auction; market-buyer; market-consumer; market-corporation; market-democracy; market-infrastructure; market-institution; market-money; market-monopoly; market-ownership; market-price; market-referee; market-seller; market-stock market; market-structure; market-subsidy; market-supermarket; market-system; market-tax; market-trade; market-workforce; marketing-advertising; marketing-brand; marketing-business; marketing-manufacturing; marketing-organization; marriage-community; marriage-contract; marriage-divorce; marriage-economics; marriage-emotion; marriage-family; marriage-fear; marriage-gender; marriage-human rights; marriage-husband; marriage-hypothesis; marriage-institution; marriage-mother; marriage-organization; marriage-parent; marriage-prejudice; marriage-priest; marriage-promise; marriage-referendum; marriage-right; marriage-sin; marriage-spouse; marriage-suicide; marriage-tribe; marriage-turkey; marriage-wedding; marriage-wife; marriage-vocation; mask-ballet; mask-baseball; mask-brass; mask-carnival; mask-cartoon; mask-ceremony; mask-community; mask-copper; mask-court; mask-devil; mask-disguise; mask-drama; mask-entertainment; mask-face; mask-folk; mask-god; mask-gold; mask-hero; mask-ice hockey; mask-leather; mask-museum; mask-performance; mask-procession; mask-prosecution; mask-protest; mask-ritual; mask-shield; mask-theatre; mask-torture; mask-trophy; mask-iv; mask-witness; massacre-disaster; massacre-sack; master-miss; masterpiece-painting; mat-bacteria; mat-bark; mat-bathroom; mat-building; mat-car; mat-carpet; mat-coconut; mat-commerce; mat-disc jockey; mat-floor; mat-furniture; mat-greeting; mat-kitchen; mat-pain; mat-pollution; mat-rubber; mat-sport; mat-straw; mat-structure; mat-surface; mat-towel; mat-type; mat-water; mat-vehicle; match-aircraft; match-chemistry; match-fire; match-firework; match-friction; match-glass; match-gun; match-lead; match-lighter; match-monopoly; match-nickname; match-paper; match-ropes; match-rubber; match-slang; match-sugar; match-tool; match-wood; material-building; material-clothing; material-computer; material-construction; material-cotton; material-manufacturing; material-matter; material-steel; materialism-consciousness; materialism-energy; materialism-existence; materialism-force; materialism-institution; materialism-matter; materialism-mind; materialism-philosophy; materialism-reality; materialism-realism; matter-atom; matter-chemistry; matter-density; matter-earth; matter-energy; matter-fluid; matter-formula; matter-gas; matter-lightning; matter-liquid; matter-materialism; matter-physics; matter-pressure; matter-science; matter-science fiction; matter-space; matter-temperature; matter-time; matter-water; matter-wave; matter-volume; may-autumn; may-drum; may-month; may-november; may-summer; may-sunday; may-turkey; may-week; may-year; mayor-magistrate; mayor-officer; mayor-parliament; mayor-prime minister; mayor-referendum; meal-beach; meal-beer; meal-birthday; meal-breakfast; meal-cheese; meal-dessert; meal-dinner; meal-fish; meal-food; meal-forest; meal-fruit; meal-home; meal-lawn; meal-lunch; meal-main course; meal-nutrition; meal-park; meal-picnic; meal-restaurant; meal-salad; meal-sandwich; meal-supper; meal-tea; meal-wedding; meaning-reference; meaning-truth; measurement-measurement; measurement-carbon; measurement-commerce; measurement-day; measurement-fraud; measurement-gram; measurement-hour; measurement-inch; measurement-kilogram; measurement-kilometre; measurement-law; measurement-length; measurement-light; measurement-metre; measurement-mile; measurement-month; measurement-ruler; measurement-science; measurement-second; measurement-spectrum; measurement-statistics; measurement-technology; measurement-temperature; measurement-time; measurement-ton; measurement-uncertainty; measurement-week; measurement-yard; measurement-year; meat-agriculture; meat-antibiotic; meat-bacteria; meat-barbecue; meat-beef; meat-body; meat-breed; meat-camel; meat-carbon dioxide; meat-cattle; meat-chicken; meat-cholesterol; meat-cooking; meat-crocodile; meat-deer; meat-disease; meat-dolphin; meat-evolution; meat-fat; meat-flesh; meat-food; meat-gene; meat-gun; meat-ham; meat-herb; meat-hygiene; meat-insect; meat-iron; meat-liver; meat-mammal; meat-muscle; meat-oak; meat-oxygen; meat-pain; meat-pork; meat-protein; meat-salt; meat-sandwich; meat-sausage; meat-sheep; meat-smoke; meat-species; meat-spice; meat-steak; meat-sugar; meat-supermarket; meat-whale; meat-wood; meat-zebra; mechanic-air conditioning; mechanic-brake; mechanic-customer; mechanic-electricity; mechanic-engine; mechanic-tank; mechanic-technician; mechanism-machine; medal-brass; medal-bronze; medal-coal; medal-copper; medal-glass; medal-gold; medal-iron; medal-lead; medal-paper; medal-plastic; medal-portrait; medal-relief; medal-sculpture; medal-silver; medal-soldier; medal-tin; medal-wood; medicine-amateur; medicine-antibiotic; medicine-aspirin; medicine-biology; medicine-clinic; medicine-diagnosis; medicine-dilemma; medicine-disease; medicine-ear; medicine-engineering; medicine-error; medicine-evolution; medicine-gene; medicine-genetics; medicine-health; medicine-health care; medicine-heart; medicine-honesty; medicine-illness; medicine-immune system; medicine-laboratory; medicine-literature; medicine-medication; medicine-nurse; medicine-philosophy; medicine-physics; medicine-poison; medicine-professional; medicine-psychology; medicine-pulse; medicine-side effect; medicine-snake; medicine-surgery; medicine-therapy; medicine-translation; medicine-tribe; medicine-truth; medicine-vaccination; medicine-vaccine; medicine-virus; medicine-x-ray; melody-composer; melody-harmony; melody-jazz; melody-lyrics; melody-rhythm; melody-song; member-bridge; member-club; membership-member; memorial-cross; memorial-fountain; memorial-money; memorial-monument; memorial-scholarship; memorial-statue; memorial-war; memory-knowledge; memory-learning; memory-phenomenon; memory-psychology; memory-recollection; memory-sleep; memory-university; mention-quote; menu-advertising; menu-chef; menu-fast food; menu-hospital; menu-restaurant; mercy-forgiveness; mercy-justice; message-communication; message-email; message-idea; message-information; message-language; message-mail; message-radio; message-television; message-thought; metal-acid; metal-aluminium; metal-art; metal-bronze; metal-carbon; metal-chemistry; metal-commodity; metal-copper; metal-crystal; metal-currency; metal-density; metal-electricity; metal-gold; metal-iron; metal-lead; metal-painting; metal-silver; metal-steel; metaphor-analogy; metaphor-anger; metaphor-cliché; metaphor-description; metre-atom; metre-brass; metre-centimetre; metre-earth; metre-inch; metre-kilogram; metal-keilometre; metre-length; metre-light; metre-millimetre; metre-red; metre-second; metre-sphere; metre-yard; microphone-aircraft; microphone-computer; microphone-concert; microphone-insect; microphone-police; microphone-pressure; microphone-radio; microphone-sound; microphone-telephone; microphone-television; midday-noon; midnight-day; midnight-noon; midnight-season; midnight-sunrise; midnight-sunset; mile-emperor; mile-kilometre; mile-length; mile-metre; mile-province; mile-street; mile-yard; milk-acid; milk-agriculture; milk-bacteria; milk-beef; milk-bread; milk-butter; milk-camel; milk-cattle; milk-cheese; milk-cow; milk-cream; milk-digestion; milk-food; milk-goo; milk-gram; milk-honey; milk-horse; milk-human; milk-ice cream; milk-infant; milk-mammal; milk-nutrition; milk-pink; milk-poverty; milk-protein; milk-sheep; milk-spinach; milk-supermarket; milk-turkey; milk-water; milk-vegetarian; milk-whale; milk-yogurt; millennium-analogy; millennium-calendar; millennium-century; millennium-decade; millimetre-inch; millimetre-length; millimetre-metre; mind-adaptation; mind-art; mind-artificial intelligence; mind-attention; mind-awareness; mind-biology; mind-body; mind-choice; mind-communication; mind-computer; mind-concept; mind-conscience; mind-consciousness; mind-conversation; mind-dialogue; mind-drama; mind-economics; mind-emotion; mind-empathy; mind-engineering; mind-evolution; mind-family; mind-fear; mind-feeling; mind-gene; mind-happiness; mind-hate; mind-human; mind-image; mind-imagination; mind-intelligence; mind-intention; mind-knowledge; mind-language; mind-learning; mind-life; mind-love; mind-machine; mind-materialism; mind-matter; mind-memory; mind-narrative; mind-perception; mind-philosopher; mind-philosophy; mind-pie; mind-psychology; mind-reality; mind-reason; mind-religion; mind-ritual; mind-science; mind-skull; mind-software; mind-soul; mind-spirit; mind-symbol; mind-taste; mind-therapist; mind-thought; mind-tool; mind-well-being; mind-video game; mine-mining; miner-coal; miner-mining; mineral-water-salt; mineral water-tourism; mining-agriculture; mining-aluminium; mining-coal; mining-commodity; mining-copper; mining-earth; mining-erosion; mining-factory; mining-gold; mining-gold; mining-laboratory; mining-lead; mining-metal; mining-silver; mining-tin; mining-tool; mining-tram; mining-weapon; mining-vein; minority-infancy; minority-majority; minority-population; minute-angle; minute-astronomy; minute-earth; minute-hour; minute-second; minute-time; miracle-coincidence; miracle-donkey; miracle-dream; miracle-earthquake; miracle-evil; miracle-faith; miracle-god; miracle-history; miracle-philosophy; miracle-saint; miracle-science; miracle-singer; mirror-astronomy; mirror-candle; mirror-human; mirror-illusion; mirror-laser; mirror-mammal; mirror-mechanic; mirror-paint; mirror-photography; mirror-portrait; mirror-sphere; mirror-telescope; mirror-vase; mirror-x-ray; misery-pain; misery-suffering; misery-unhappiness; miss-mrs; miss-servant; missile-bomb; missile-engine; missile-explosive; missile-gun; missile-heat; missile-lasere; missile-radiation; mist-air; mist-fog; mist-water; mist-weather; misunderstanding-understanding; mix-mixture; mixture-air; mixture-blood; mixture-chemistry; mixture-cloud; mixture-concrete; mixture-dust; mixture-fog; mixture-gas; mixture-gold; mixture-ink; mixture-liquid; mixture-milk; mixture-mist; mixture-mud; mixture-oxygen; mixture-plastic; mixture-silver; mixture-smoke; mixture-soil; mixture-solution; mixture-sugar; mixture-water; mobile phone-email; mobile-mobile phone; mode-fashion; model-role model; model-system; momentum-explosion; momentum-heat; momentum-kilogram; momentum-light; momentum-plural; momentum-pressure; momentum-rocket; momentum-second; momentum-sound; momentum-star; momentum-wave; monday-angel; monday-heaven; monday-saturday; monday-sunday; monday-thursday; monday-tuesday; money-art; money-bank; money-banking; money-cash; money-century; money-cheque; money-commodity; money-copper; money-country; money-currency; money-debt; money-diamond; money-economics; money-exchange rate; money-gold; money-government; money-inflation; money-liberty; money-loan; money-monopoly; money-payment; money-receipt; money-recession; money-rice; money-silver; money-stock; money-tax; money-unemployment; monkey-human; monkey-species; monopoly-canal; monopoly-company; monopoly-competition; monopoly-famine; monopoly-industry; monopoly-law; monopoly-market; monopoly-regulation; monster-cattle; monster-colour; monster-devil; monster-dinosaur; monster-energy; monster-eye; monster-fish; monster-forehead; monster-gene; monster-goat; monster-legend; monster-lion; monster-mouse; monster-oxygen; monster-planet; monster-siren; monster-skull; month-april; month-august; month-autumn; month-calendar; month-day; month-december; month-february; month-inclination; month-january; month-july; month-june; month-march; month-may; month-november; month-october; month-rose; month-second; month-september; month-star; month-summer; month-sun; month-time; month-weekday; month-wine; month-winter; month-year; monument-archaeologist; monument-building; monument-column; monument-memorial; monument-pyramid; monument-statue; monument-temple; monument-tomb; moonlight-daylight; moonlight-earth; moonlight-sun; moonlight-sunlight; morale-comfort; morale-courage; morale-duty; morale-fear; morale-motivation; morale-self-discipline; morale-willpower; morning-afternoon; morning-analogy; morning-breakfast; morning-dawn; morning-day; morning-evening; morning-gene; morning-midnight; morning-newspaper; morning-night; morning-noon; morning-sunrise; mortality-death; mortality-human; mosque-cathedral; mosque-clinic; mosque-column; mosque-dawn; mosque-gym; mosque-hazard; mosque-image; mosque-library; mosque-protest; mosque-pyramid; mosque-sunrise; mosque-sunset; mosque-symbol; mosque-vandalism; mosquito-adult; mosquito-animal; mosquito-bacteria; mosquito-bat; mosquito-carbon dioxide; mosquito-dawn; mosquito-disease; mosquito-fly; mosquito-head; mosquito-human; mosquito-immune system; mosquito-insect; mosquito-predator; mosquito-protein; mosquito-salmon; mosquito-sugar; mosquito-virus; mother-child; mother-emperor; mother-father; mother-human; mother-immune system; mother-mammal; mother-milk; mother-nutrition; mother-pregnancy; mother-stepmother; mother-wife; mother-woman; motivation-acceptance; motivation-addiction; motivation-curiosity; motivation-economics; motivation-family; motivation-feedback; motivation-food; motivation-friendship; motivation-game; motivation-goal; motivation-health; motivation-hunger; motivation-independence; motivation-love; motivation-money; motivation-observation; motivation-philosophy; motivation-psychologist; motivation-psychology; motivation-punishment; motivation-responsibility; motivation-safety; motivation-salary; motivation-saving; motivation-security; motivation-self-esteem; motivation-threat; motivation-tranquility; motivation-water; motive-motivation; motor-engine; mountain-agriculture; mountain-earth; mountain-erosion; mountain-hill; mountain-hobby; mountain-human; mountain-ice; mountain-landscape; mountain-mining; mountain-ocean; mountain-profession; mountain-river; mountain-snow; mountain-sport; mountain-tourism; mountain-volcano; mouse-animal; mouse-biology; mouse-cat; mouse-disease; mouse-dog; mouse-earth; mouse-experiment; mouse-fox; mouse-gene; mouse-generation; mouse-ink; mouse-mammal; mouse-paper; mouse-pet; mouse-protein; mouse-psychology; mouse-rat; mouse-reptile; mouse-snake; mouse-species; moustache-beard; moustache-chin; moustache-comb; moustache-lip; moustache-pencil; moustache-scissors; move-immigration; movie-film; mud-brick; mud-concrete; mud-construction; mud-frog; mud-pig; mud-sand; mud-soil; mud-sun;

mud>water; mud>worm; mug>coffee; mug>fluid; mug>pottery; mug>saucer; mug>tea; mum>mother; murder>animal; murder>assault; murder>corporation; murder>drug; murder>law; murder>precedent; murder>prostitute; murder>rape; murder>sin; murder>suicide; murder>war; murderer>murder; muscle>ancestor; muscle>bone; muscle>brain; muscle>cancer; muscle>cycling; muscle>density; muscle>dna; muscle>energy; muscle>fat; muscle>heart; muscle>infant; muscle>jaw; muscle>jogging; muscle>mammal; muscle>marathon; muscle>meat; muscle>motion; muscle>nerve; muscle>oxygen; muscle>protein; muscle>sense; muscle>skeleton; muscle>stomach; muscle>tongue; museum>agriculture; museum>aircraft; museum>animal; museum>archaeology; museum>astronomy; museum>computer; museum>craft; museum>drawing; museum>geology; museum>glass; museum>history; museum>illustration; museum>invention; museum>library; museum>musician; museum>painting; museum>philosophy; museum>physics; museum>propaganda; museum>science; museum>sculpture; museum>tank; museum>technology; museum>weapon; museum>zoo; mushroom>anxiety; mushroom>cooking; mushroom>copper; mushroom>disease; mushroom>food; mushroom>immune system; mushroom>species; mushroom>wool; music>addiction; music>archaeology; music>art; music>artificial intelligence; music>ballet; music>biology; music>choir; music>composer; music>computer; music>concert; music>cooperation; music>disc jockey; music>dissertation; music>emotion; music>entertainment; music>flute; music>globalization; music>guitar; music>harmony; music>intellect; music>jazz; music>language; music>lyrics; music>melody; music>memory; music>musician; music>opera; music>orchestra; music>performance; music>physics; music>piano; music>propaganda; music>psychology; music>radio; music>rhythm; music>singer; music>sound; music>speech; music>structure; music>television; music>time; music>university; music>violin; musical>music; musician>chapel; musician>composer; musician>jazz; musician>melody; musician>music; musician>poetry; musician>profession; musician>revolution; musician>singer; musician>singing; musician>society; mystery>secret; name>astronomy; name>dolphin; name>god; name>nickname; name>peace; name>science; name>slavery; name>spirit; name>war; nap>insomnia; nap>midday; nap>sleep; narrative>animation; narrative>communication; narrative>culture; narrative>data; narrative>description; narrative>drama; narrative>fiction; narrative>film; narrative>legend; narrative>literature; narrative>narrator; narrative>novel; narrative>openness; narrative>photography; narrative>poem; narrative>poetry; narrative>report; narrative>self; narrative>song; narrative>speech; narrative>television; narrative>theatre; narrative>validity; narrative>video; narrative>writing; nation>civilization; nation>community; nation>country; nation>culture; nation>government; nation>nationality; nation>society; nation>tribe; nationality>candidate; nationality>passport; nationality>politics; nationality>treaty; native speaker>first language; nature>adaptation; nature>air; nature>animal; nature>art; nature>atmosphere; nature>bacteria; nature>bay; nature>beauty; nature>biology; nature>bird; nature>bone; nature>civilization; nature>climate change; nature>cloud; nature>consciousness; nature>continent; nature>digestion; nature>dinosaur; nature>dna; nature>dust; nature>earth; nature>energy; nature>era; nature>evolution; nature>extinction; nature>fish; nature>fishing; nature>gas; nature>genetics; nature>geology; nature>habitat; nature>hill; nature>human; nature>hunting; nature>ice; nature>intrusion; nature>kilogram; nature>laboratory; nature>lake; nature>life; nature>lightning; nature>liquid; nature>mammal; nature>materialism; nature>matter; nature>mind; nature>mining; nature>mountain; nature>muscle; nature>observation; nature>ocean; nature>oxygen; nature>phenomenon; nature>photography; nature>physics; nature>planet; nature>plant; nature>poetry; nature>pollution; nature>pond; nature>recreation; nature>reproduction; nature>river; nature>science; nature>sea; nature>soil; nature>species; nature>star; nature>steam; nature>stream; nature>sun; nature>surface; nature>temperature; nature>tornado; nature>weather; nature>wilderness; nature>wildlife; nature>volcano; nature>zoo; navy>combat; navy>commander; navy>lake; navy>ocean; navy>port; navy>river; navy>sail; necessity>child; necessity>community; necessity>crime; necessity>law; necessity>organization; necessity>parent; neck>adjective; neck>body; neck>chin; neck>jaw; neck>pain; neck>throat; necklace>bracelet; necklace>bronze; necklace>chain; necklace>copper; necklace>coral; necklace>cross; necklace>diamond; necklace>gold; necklace>jewellery; necklace>laser; necklace>love; necklace>neck; necklace>shark; necklace>silver; necklace>tooth; necklace>vine; need>education; need>life; need>philosophy; need>politics; need>respect; need>self-esteem; neglect>abuse; neglect>negligence; neglect>self-esteem; negligence>carelessness; negligence>contract; negligence>harm; negligence>insurance; negligence>neglect; negligence>railway; negligence>train; negotiation>anger; negotiation>compromise; negotiation>contract; negotiation>conversation; negotiation>dialogue; negotiation>diplomacy; negotiation>disappointment; negotiation>emotion; negotiation>laboratory; negotiation>leadership; negotiation>pride; negotiation>sadness; negotiation>worry; neighbourhood>city; neighbourhood>community; neighbourhood>district; neighbourhood>fence; neighbourhood>household; neighbourhood>lawn; neighbourhood>security; neighbourhood>suburb; neighbourhood>town; neighbourhood>turkey; nerve>brain; nerve>muscle; nerve>pain; nerve>sense; nerve>skin; nerve>walking; nerves>nerve; nervousness>anxiety; nervousness>worry; nest>bird; nest>eagle; nest>fish; nest>grass; nest>habitat; nest>insect; nest>leaf; nest>mammal; nest>reptile; nest>snake; nest>soil; nest>tree; nest>wasps; networking>network; news>consumer; news>information; news>mobile phone; news>opinion; news>radio; news>reporter; news>satellite; news>television; newsletter>club; newsletter>email; newsletter>interest; newsletter>marketing; newsletter>newspaper; newsletter>publication; newspaper>bias; newspaper>digital camera; newspaper>intellectual; newspaper>reporter; newspaper>weather forecast; nickname>ambiguity; nickname>ceremony; nickname>electrician; nickname>father; nickname>generation; nickname>genius; nickname>glasses; nickname>grandfather; nickname>home; nickname>intelligence; nickname>psychology; nickname>surgeon; night>animal; night>carbon dioxide; night>day; night>earth; night>economy; night>energy; night>fear; night>ghost; night>horizon; night>life; night>lighting; night>lightning; night>midnight; night>moonlight; night>nightclub; night>nightlife; night>nightlife; night>plant; night>police station; night>season; night>sleep; night>sun; night>time; night>water; nightclub>celebrity; nightclub>concert; nightclub>club>dance; nightclub>disc jockey; nightclub>disco; nightclub>drug; nightclub>nightlife; nightclub>techno; nightclub>adult; nightclub>concert; nightclub>entertainment; nightclub>murder; nightclub>music; nightclub>nightclub; nightclub>party; nightclub>restaurant; nightclub>anxiety; nightclub>brain; nightclub>fear; nightclub>mare>fever; nightclub>harassment; nightclub>insomnia; nightclub>sadness; nightclub>sleep; nightclub>symptom; noise>data; noise>physics; noise>public transport; noise>radio; noise>silence; noise>sound; noise>television; noise>video; nomination>award; nomination>candidate; nomination>celebrity; nomination>election; nomination>law; nomination>office; nonsense>contradiction; nonsense>grammar; nonsense>novelist; nonsense>poet; nonsense>poetry; nonsense>sense; nonsense>speech; nonsense>writing; noon>astronomy; noon>midnight; north>adjective; north>adverb; north>east; north>geography; north>map; north>noun; north>south; north>sun; north>west; northwest>southeast; nose>bat; nose>beak; nose>bird; nose>camel; nose>dog; nose>elephant; nose>mammal; nose>mouth; nose>nostril; nose>nose; nostalgia>brain; nostalgia>happiness; nostalgia>music; nostalgia>sorrow; nostalgia>touch; nostril>bird; nostril>fish; nostril>human; nostril>mammal; nostril>nose; note>alphabet; note>music; note>musician; note>sound; notebook>drawing; notice>allegation; noun>adjective; noun>clause; noun>description; noun>determiner; noun>plural; noun>prefix; noun>preposition; noun>pronoun; noun>punctuation; noun>reference; noun>sense; noun>sex; noun>suffix; noun>verb; novel>adventure; novel>art; novel>bestseller; novel>child; novel>comic; novel>communication; novel>creativity; novel>dedication; novel>essay; novel>fantasy; novel>fiction; novel>gender; novel>globalization; novel>history; novel>individual; novel>industrialization; novel>invention; novel>joke; novel>literacy; novel>literature; novel>narrative; novel>newspaper; novel>psychology; novel>quest; novel>racism; novel>reality; novel>review; novel>science fiction; novel>sensibility; novel>virtual reality; novelist>novel; novelty>art; novelty>creativity; novelty>innovation; novelty>marketing; november>autumn; november>day; november>february; november>homelessness; november>january; november>march; november>may; november>month; november>saturday; november>sunday; november>war; november>winter; november>year; nuisance>agriculture; nuisance>contempt; nuisance>law; number>addition; number>full stop; number>measurement; number>pyramid; number>rectangle; number>uncountable; nutrition>agriculture; nutrition>atmosphere; nutrition>bean; nutrition>berry; nutrition>blood; nutrition>bread; nutrition>butter; nutrition>cancer; nutrition>carbon; nutrition>cereal; nutrition>cheese; nutrition>chemical; nutrition>cholesterol; nutrition>confusion; nutrition>cooking; nutrition>copper; nutrition>diet; nutrition>digestion; nutrition>dna; nutrition>drought; nutrition>energy; nutrition>exercise; nutrition>experiment; nutrition>fast food; nutrition>fat; nutrition>flower; nutrition>food; nutrition>fruit; nutrition>garlic; nutrition>genetics; nutrition>grain; nutrition>grape; nutrition>herb; nutrition>human; nutrition>immune system; nutrition>iron; nutrition>junk food; nutrition>leaf; nutrition>life; nutrition>marathon; nutrition>meat; nutrition>metal; nutrition>milk; nutrition>obesity; nutrition>onion; nutrition>oxygen; nutrition>pasta; nutrition>potato; nutrition>protein; nutrition>psychology; nutrition>pump; nutrition>rice; nutrition>root; nutrition>science; nutrition>seed; nutrition>soil; nutrition>spice; nutrition>starvation; nutrition>sugar; nutrition>sunlight; nutrition>tea; nutrition>teaching; nutrition>technology; nutrition>water; nutrition>vegetable; nutrition>wheat; nutrition>wine; nutrition>vitamin; oak>bark; oak>butterfly; oak>cattle; oak>cheese; oak>commander; oak>endurance; oak>euro; oak>flower; oak>fruit; oak>furniture; oak>goat; oak>leaf; oak>leather; oak>plant; oak>sheep; oak>ship; oak>species; oak>symbol; oak>tree; oak>wine; oak>virtue; oak>wood; obesity>appetite; obesity>cancer; obesity>famine; obesity>gene; obesity>globalization; obesity>junk food; obesity>medication; obesity>pregnancy; obesity>stroke; object>entity; object>goal; obligation>politics; obligation>tradition; observation>camera; observation>clock; observation>data; observation>equal; observation>experiment; observation>human; observation>hypothesis; observation>information; observation>knowledge; observation>measurement; observation>nature; observation>paradox; observation>phenomenon; observation>sense; observation>system; observation>taste; observation>telescope; observation>thermometer; observation>x-ray; observer>observation; obstacle>architecture; obstacle>basketball; obstacle>cycling; obstacle>electricity; obstacle>football; obstacle>idiom; obstacle>infrastructure; obstacle>majority; obstacle>parliament; obstacle>public transport; obstacle>skill; obstacle>tennis; obstacle>volleyball; occupation>career; occupation>employment; occupation>profession; occupation>vocation; ocean>animal; ocean>bay; ocean>climate; ocean>coast; ocean>continent; ocean>dolphin; ocean>earth; ocean>evolution; ocean>fish; ocean>global warming; ocean>habitat; ocean>ice; ocean>life; ocean>planet; ocean>plant; ocean>rain; ocean>sea; ocean>ship; ocean>species; ocean>water; ocean>weather; ocean>whale; ocean>wind; october>april; october>autumn; october>blindness; october>day; october>health; october>lung; october>month; october>pizza; october>republic; october>sausage; october>turkey; october>year; odds>gambling; odds>probability; odds>proposition; odds>ratio; odds>statistics; office>adjective; office>building; office>business; office>desk; office>employment; office>factory; office>fashion; office>library; office>official; office>organization; office>project; office>software; office>warehouse; officer>authority; officer>police officer; official>adjective; official>authority; official>bureaucracy; official>ceremony; official>election; official>employment; official>government; official>inheritance; official>jargon; official>noun; official>office; official>organization; official>referee; official>school; official>signpost; official>title; official>war; offspring>adult; offspring>biology; offspring>bird; offspring>child; offspring>daughter; offspring>frog; offspring>parent; offspring>reproduction; offspring>son; oil>butter; oil>carbon; oil>heat; oil>light; oil>liquid; oil>oxygen; oil>protein; olive>autumn; olive>drought; olive>flower; olive>frost; olive>fruit; olive>garlic; olive>herb; olive>leaf; olive>lemon; olive>rabbit; olive>root; olive>soil; olive>species; olive>spice; olive>stem; olive>tree; olive>turkey; olive>umbrella; olive>weed; olive>vine; olive>wine; olive>winter; omelette>beef; omelette>butter; omelette>cheese; omelette>cholesterol; omelette>cream; omelette>fat; omelette>frying pan; omelette>garlic; omelette>ham; omelette>leek; omelette>lung; omelette>meat; omelette>milk; omelette>onion; omelette>pasta; omelette>pea; omelette>pork; omelette>potato; omelette>salt; omelette>tomato; omelette>vegetable; omission>argument; omission>lie; onion>bean; onion>carrot; onion>cat; onion>cattle; onion>cheese; onion>dog; onion>economist; onion>fat; onion>garlic; onion>gene; onion>spice; onion>vegetable; onion>vinegar; openness>community; opera>carival; opera>costume; opera>drama; opera>musician; opera>orchestra; opera>singing; opera>tradition; opera>tragedy; operation>surgery; opinion>argument; opinion>belief; opinion>business; opinion>committee; opinion>economics; opinion>emotion; opinion>fact; opinion>jury; opinion>knowledge; opinion>philosophy; opinion>psychology; opinion>understanding; opportunity>crisis; opposite>volleyball; optimism>cancer; optimism>evolution; optimism>health; optimism>idiom; optimism>intelligence; optimism>philosophy; optimism>psychology; optimism>stroke; optimist>optimism; orchestra>ballet; orchestra>cello; orchestra>choir; orchestra>committee; orchestra>composer; orchestra>court; orchestra>dancing; orchestra>flute; orchestra>melody; orchestra>musician; orchestra>opera; orchestra>piano; orchestra>trumpet; orchestra>violin; ordeal>cruelty; ordeal>difficulty; ordeal>problem; ordeal>suffering; ordeal>torture; order>sequence; organ>magazine; organ>newsletter; organization>bureaucracy; organization>committee; organization>communication; organization>competition; organization>corporation; organization>ecology; organization>economics; organization>entity; organization>goal; organization>government; organization>human; organization>jury; organization>leadership; organization>management; organization>parliament; organization>partnership; organization>psychology; organization>pyramid; organization>structure; organization>university; origin>ancestor; origin>birth; origin>river; origin>time; ornament>fashion; orphan>adoption; orphan>suicide; outbreak>disease; output>cake; output>computer; output>data; output>economics; output>engineering; output>feedback; output>information; output>sequence; output>system; oven>bread; oven>brick; oven>cake; oven>casserole; oven>coal; oven>computer; oven>concrete; oven>cooking; oven>dessert; oven>electricity; oven>heating; oven>meat; oven>pizza; oven>pottery; oven>steel; overdraft>adverb; overdraft>contract; overdraft>debit; overdraft>interest; overdraft>preposition; owl>adaptation; owl>beak; owl>bird; owl>dawn; owl>dinosaur; owl>ecology; owl>feather; owl>fish; owl>insect; owl>mammal; owl>species; owl>traffic; owl>wisdom; owner>ownership; ownership>asset; ownership>body; ownership>building; ownership>business; ownership>capitalism; ownership>consideration; ownership>controversy; ownership>debt; ownership>exchange; ownership>gift; ownership>idea; ownership>individual; ownership>innovation; ownership>invention; ownership>law; ownership>manufacturing; ownership>mind; ownership>money; ownership>person; ownership>property; ownership>slavery; ownership>theft; ownership>trade; oxygen>acid; oxygen>alcohol; oxygen>aluminium; oxygen>bacteria; oxygen>barbecue; oxygen>carbon; oxygen>carbon dioxide; oxygen>carbon monoxide; oxygen>centimetre; oxygen>climate change; oxygen>detective; oxygen>disease; oxygen>dna; oxygen>earth; oxygen>explosion; oxygen>fabric; oxygen>fat; oxygen>fire; oxygen>fuel; oxygen>gas; oxygen>immune system; oxygen>iron; oxygen>litre; oxygen>medicine; oxygen>ozone; oxygen>plastic; oxygen>protein; oxygen>rocket; oxygen>sand; oxygen>skeleton; oxygen>smog; oxygen>spider; oxygen>sport; oxygen>star; oxygen>steel; oxygen>sun; oxygen>tin; oxygen>water; oxygen>vein; oxygen>wood; ozone>aluminium; ozone>atom; ozone>carbon; ozone>carbon dioxide;

ozone>climate change; ozone>concentration; ozone>earth; ozone>electricity; ozone>fruit; ozone>glass; ozone>gold; ozone>heart attack; ozone>immune system; ozone>iron; ozone>lead; ozone>lightning; ozone>liquid; ozone>metal; ozone>mining; ozone>oxygen; ozone>paper; ozone>salt; ozone>silver; ozone>water; ozone>vegetable; pace>peace; pack>backpack; pack>surname; pack>tourism; pack>contract; pack>treaty; page>web page; pain>anxiety; pain>cancer; pain>medication; pain>suffering; pain>toothache; pain>torture; pain>alcohol; pain>bacteria; paint>brush; paint>ink; paint>lead; paint>liquid; paint>milk; paint>oxygen; paint>sunshine; painter>painting; painting>art; painting>artist; painting>beauty; painting>brush; painting>concept; painting>copper; painting>craft; painting>design; painting>drawing; painting>essay; painting>face; painting>film; painting>glass; painting>illustration; painting>language; painting>leaf; painting>leather; painting>literature; painting>logo; painting>music; painting>nature; painting>oil; painting>paint; painting>paper; painting>pen; painting>philosophy; painting>photograph; painting>photography; painting>poetry; painting>politics; painting>portrait; painting>red; painting>rhythm; painting>sand; painting>solution; painting>straw; painting>surface; painting>symbol; painting>truth; painting>wall; painting>weather; painting>wood; painting>writing; pair>air; pair>cricket; pair>pear; pair>pressure; palace>castle; palace>chapel; palace>coconut; palace>hotel; palace>mansion; palace>museum; palace>parliament; palace>warehouse; pan>frying pan; pan>pancake; pan>prefix; pan>review; pancake>bacon; pancake>banana; pancake>breakfast; pancake>butter; pancake>cake; pancake>curry; pancake>fruit; pancake>frying pan; pancake>honey; pancake>jam; pancake>rice; pancake>synonym; pancake>yogurt; panel>jury; panic>anxiety; panic>architect; panic>cliff; panic>design; panic>emotion; panic>fear; panic>human; panic>marathon; panic>planning; panic>reason; panic>simulation; panic>symptom; pants>trousers; paper>art; paper>book; paper>cheque; paper>communication; paper>craft; paper>density; paper>diary; paper>drawing; paper>envelope; paper>grass; paper>handkerchief; paper>magazine; paper>newspaper; paper>notebook; paper>security; paper>straw; paper>wood; paper>writing; parachute>back; parachute>backpack; parachute>balloon; parachute>fair; parachute>landing; parachute>linen; parachute>probability; parachute>silk; parachute>weight; parade>carnival; parade>costume; parade>procession; parade>protest; paradigm>concept; paradigm>grammar; paradigm>photography; paradigm>physics; paradigm>science; paradigm>time; paradise>civilization; paradise>court; paradise>destiny; paradise>evil; paradise>evolution; paradise>garden; paradise>god; paradise>happiness; paradise>heaven; paradise>hell; paradise>park; paradise>peace; paradise>prosperity; paradise>space; paradise>time; paradise>yard; paradox>common sense; paradox>contradiction; paradox>dilemma; paradox>irony; paradox>language; paradox>logic; paradox>philosopher; paradox>surgery; paradox>validity; paragraph>email; paragraph>idea; paragraph>initial; paragraph>writing; parallel>astronomy; parcel>mail; parents>adjective; parents>adoption; parents>ancestor; parents>bird; parents>birth; parents>child; parents>family; parents>father; parents>gene; parents>generation; parents>infant; parents>male; parents>mother; parents>offspring; parents>pregnancy; parents>protein; parents>reproduction; parents>sibling; parents>verb; park>car park; park>government; park>grass; park>insect; park>landscape; park>mansion; park>picnic; park>playground; park>recreation; park>shade; park>turkey; park>woodland; parking>board game; parking>fee; parking>house; parking>road; parking>vehicle; parliament>appeal; parliament>citizen; parliament>democracy; parliament>finance; parliament>government; parliament>justice; parliament>legislation; parliament>prime minister; parliament>tax; parrot>animal; parrot>bacteria; parrot>beak; parrot>bird; parrot>competition; parrot>dinosaur; parrot>evolution; parrot>flower; parrot>food; parrot>fruit; parrot>hunting; parrot>pet; parrot>poison; parrot>predator; parrot>rat; parrot>seed; parrot>species; parrot>tongue; parrot>manufacturer; particle>atom; particle>beach; particle>carbon dioxide; particle>crowd; particle>dust; particle>friction; particle>gas; particle>liquid; particle>matter; particle>nature; particle>people; particle>stand; particle>sphere; particle>star; particle>structure; particle>volume; partner>friend; partner>husband; partner>partnership; partner>wife; partnership>alliance; partnership>contract; partnership>corporation; partnership>corruption; partnership>education; partnership>entity; partnership>government; partnership>interest; partnership>monopoly; partnership>organization; partnership>school; party>anniversary; party>balloon; party>banana; party>birthday; party>cake; party>conversation; party>dancing; party>dessert; party>dinner; party>disc jockey; party>disco; party>drink; party>election; party>film; party>food; party>friendship; party>hospitality; party>main course; party>mask; party>music; party>noise; party>opera; party>recreation; party>restaurant; party>sandwich; party>school; party>swimming pool; party>tea; party>techno; party>wedding; party>wine; passage>cave; passenger>bus; passenger>railway; passenger>ship; passenger>vehicle; passport>diplomacy; passport>government; passport>nationality; passport>receipt; passport>refugee; passport>travel; passport>treasury; password>backup; password>face; password>graphics; password>image; password>memory; password>mobile phone; password>word; pasta>cereal; pasta>chef; pasta>cholesterol; pasta>cooking; pasta>export; pasta>flour; pasta>ham; pasta>machine; pasta>sausage; pastime>hobby; pastry>bakery; pastry>biscuit; pastry>bread; pastry>butter; pastry>chocolate; pastry>cream; pastry>flour; pastry>milk; pastry>pasta; pastry>pie; pastry>sugar; patch>garden; patience>envy; patience>humility; patience>insect; patience>kindness; patience>pride; patience>time; patient>clinic; patient>dignity; patient>health care; patient>hospital; patient>human rights; patient>illness; patient>medication; patient>surgeon; patient>therapy; patient>treatment; pattern>carpet; pattern>column; pattern>crack; pattern>crystal; pattern>drawing; pattern>painting; pattern>physics; pattern>pineapple; pattern>reflection; pattern>tree; pattern>wave; pause>leisure; paw>bear; paw>cat; paw>dog; paw>fox; paw>friction; paw>mammal; paw>rabbit; paw>tiger; paw>toe; pay>payment; pay>salary; pay>wage; pay>stock>business; payment>cash; payment>cheque; payment>coin; payment>commerce; payment>credit card; payment>debit card; payment>money; payment>receipt; payment>store; payment>trade; pc>postcard; pc>weather forecast; pea>bean; pea>butter; pea>climate; pea>famine; pea>fruit; pea>genetics; pea>noun; pea>plant; pea>plural; pea>protein; pea>salt; pea>seed; pea>snack; pea>soup; pea>tree; pea>turkey; pea>vegetable; pea>vine; pea>vitamin; peace>aggression; peace>cooperation; peace>diplomacy; peace>economics; peace>geography; peace>history; peace>hostility; peace>knowledge; peace>psychology; peace>respect; peace>silence; peace>strategy; peace>tranquility; peace>war; peace>violence; peach>acid; peach>cherry; peach>flower; peach>fruit; peach>leaf; peach>plant; peach>protein; peach>tree; peach>rush hour; peak>summit; peanut>beef; peanut>bird; peanut>cancer; peanut>cholesterol; peanut>cookie; peanut>cotton; peanut>flower; peanut>fruit; peanut>leaf; peanut>paint; peanut>plant; peanut>plastic; peanut>rabbit; peanut>seed; peanut>spinach; pear>apple; pear>banana; pear>family; pear>flower; pear>furniture; pear>jam; pear>juice; pear>leaf; pear>olive; pear>plant; pear>rice; pear>species; pear>tobacco; pear>winter; pear>wood; peasant>farmer; peasant>literacy; peasant>slavery; pedestrian>obesity; pedestrian>public transport; pedestrian>road; pedestrian>running; pedestrian>traffic; pedestrian>trail; pedestrian>walking; pedestrian>vehicle; pedestrian>wheelchair; peer pressure>adolescent; peer pressure>alcohol; peer pressure>leadership; peer pressure>meeting; peer pressure>presentation; peer pressure>risk; peer pressure>tobacco; peer>ball; peer>brass; peer>drawing; pen>illustration; pen>ink; pen>inventor; pen>paper; pen>pencil; pen>status symbol; pen>steel; pen>writing; penalty>punishment; penalty>tax; penny>penny; pencil>chemistry; pencil>drawing; pencil>lead; pencil>leather; pencil>pen; pencil>ruler; pencil>wood; pencil>writing; penguin>animal; penguin>bird; penguin>evolution; penguin>fish; penguin>habitat; penguin>iceberg; penguin>species; penguin>tail; penguin>wing; penny>commodity; penny>devil; penny>dollar; penny>euro; penny>silver; pension>asset; pension>government; pension>insurance; pension>investment; pension>lottery; pension>pensioner; pension>retirement; pension>stock; pension>tax; pensioner>pension; pensioner>retirement; pensioner>student; people>citizen; people>nation; people>nationality; people>person; people>republic; people>socialism; people>tribe; percentage>concentration; percentage>ratio; percentage>road; perception>brain; perception>ear; perception>ecology; perception>food; perception>hypothesis; perception>illusion; perception>information; perception>learning; perception>memory; perception>motivation; perception>paradigm; perception>psychology; perception>science; perception>sense; perception>simulation; perception>sound; perception>taste; perception>tongue; perfection>architect; perfection>architecture; perfection>art; perfection>artist; perfection>beauty; perfection>biology; perfection>chemistry; perfection>circle; perfection>civilization; perfection>concept; perfection>cooperation; perfection>creativity; perfection>crystal; perfection>education; perfection>existence; perfection>formula; perfection>god; perfection>grammar; perfection>harmony; perfection>health; perfection>heaven; perfection>idea; perfection>intellect; perfection>literature; perfection>matter; perfection>medicine; perfection>nature; perfection>number; perfection>painting; perfection>paradise; perfection>paradox; perfection>philosopher; perfection>philosophy; perfection>physics; perfection>plural; perfection>poet; perfection>poetry; perfection>proverb; perfection>ratio; perfection>reason; perfection>religion; perfection>science; perfection>sculpture; perfection>shape; perfection>side; perfection>skill; perfection>society; perfection>sphere; perfection>spirit; perfection>structure; perfection>sum; perfection>superlative; perfection>technology; perfection>temple; perfection>virtue; performance>actor; performance>audience; performance>ballet; performance>baseball; performance>comedian; performance>concert; performance>dance; performance>music; performance>opera; performance>rehearsal; performance>singing; performance>theatre; perfume>aluminium; perfume>apple; perfume>bark; perfume>bulb; perfume>chemistry; perfume>cherry; perfume>cola; perfume>corporation; perfume>dir; perfume>flower; perfume>fruit; perfume>heat; perfume>herb; perfume>honey; perfume>leaf; perfume>lemon; perfume>light; perfume>make-up; perfume>oxygen; perfume>pine; perfume>plant; perfume>root; perfume>rose; perfume>science; perfume>seed; perfume>shampoo; perfume>spice; perfume>strawberry; perfume>tobacco; perfume>tomato; perfume>wood; period>full stop; person>abortion; person>consciousness; person>estate; person>human; person>individual; person>law; person>liberty; person>nation; person>people; person>philosophy; person>slavery; person>self; person>family; person>self; person>employment; persuasion>advertising; persuasion>belief; persuasion>communication; persuasion>deception; persuasion>faith; persuasion>imagination; persuasion>intention; persuasion>logic; persuasion>motivation; persuasion>pity; persuasion>presentation; persuasion>propaganda; persuasion>torture; persuasion>tradition; pet>animal; pet>ant; pet>bird; pet>cat; pet>chocolate; pet>crab; pet>crocodile; pet>deer; pet>dog; pet>feather; pet>frog; pet>lur; pet>goat; pet>horse; pet>leopard; pet>lion; pet>monkey; pet>parrot; pet>rabbit; pet>sheep; pet>snake; pet>spider; pet>tiger; pharmacist>biology; pharmacist>chemist; pharmacist>chemistry; pharmacist>disease; pharmacist>economics; pharmacist>health; pharmacist>health care; pharmacist>medication; pharmacist>nutrition; pharmacist>patient; pharmacist>pharmacy; pharmacist>physics; pharmacist>wage; pharmacy>chemistry; pharmacy>clinic; pharmacy>copper; pharmacy>health; pharmacy>health care; pharmacy>hospital; pharmacy>lead; pharmacy>magazine; pharmacy>medication; pharmacy>nutrition; pharmacy>partnership; pharmacy>pharmacist; pharmacy>retailer; pharmacy>shampoo; pharmacy>supermarket; pharmacy>surgery; pharmacy>symbol; phenomenon>energy; phenomenon>experience; phenomenon>matter; phenomenon>observation; phenomenon>occurrence; phenomenon>philosophy; phenomenon>physics; phenomenon>theory; philosopher>argument; philosopher>concept; philosopher>human; philosopher>knowledge; philosopher>logic; philosopher>person; philosopher>philosophy; philosopher>proposition; philosopher>society; philosophy>argument; philosophy>art; philosophy>beauty; philosophy>belief; philosophy>body; philosophy>debate; philosophy>democracy; philosophy>dialogue; philosophy>economics; philosophy>essence; philosophy>existence; philosophy>faith; philosophy>god; philosophy>government; philosophy>health; philosophy>humility; philosophy>hypothesis; philosophy>integrity; philosophy>justice; philosophy>language; philosophy>law; philosophy>literature; philosophy>logic; philosophy>longevity; philosophy>lyrics; philosophy>materialism; philosophy>mind; philosophy>music; philosophy>nature; philosophy>number; philosophy>proposition; philosophy>proverb; philosophy>psychology; philosophy>reality; philosophy>reason; philosophy>reasoning; philosophy>theory; philosophy>time; philosophy>truth; philosophy>validity; philosophy>world; phone>telephone; photo>photograph; photograph>acid; photograph>camera; photograph>dust; photograph>image; photograph>light; photograph>photography; photographer>advertising; photographer>amateur; photographer>landscape; photographer>photography; photographer>portrait; photograph>art; photograph>beauty; photograph>camera; photograph>computer; photograph>digital camera; photograph>gain; photograph>hobby; photograph>image; photograph>light; photograph>photocopy; photograph>photograph; photograph>photographer; photograph>professional; photograph>science; photograph>television; photograph>thermometer; photograph>tourism; photograph>video; phrasal verb>cliché; phrasal verb>collocation; phrasal verb>idiom; phrasal verb>particle; phrasal verb>phrase; phrasal verb>preposition; phrasal verb>verb; phrase>clause; phrase>word; physics>archaeology; physics>astronomy; physics>atom; physics>biology; physics>bridge; physics>chemistry; physics>computer; physics>curriculum; physics>earth; physics>energy; physics>engineering; physics>experiment; physics>film; physics>force; physics>geology; physics>heat; physics>industrialization; physics>laser; physics>light; physics>lightning; physics>liquid; physics>matter; physics>nature; physics>phenomenon; physics>philosophy; physics>prediction; physics>research; physics>science; physics>society; physics>sound; physics>space; physics>technology; physics>television; physics>temperature; physics>theory; physics>time; physics>uncertainty; physics>water; physics>video game; piano>cd; piano>clutch; piano>composer; piano>jazz; piano>mp3 player; piano>performance; piano>rehearsal; piano>steel; piano>television; piano>barbecue; picnic>picnic; picnic>meal; picnic>rush hour; picnic>singer; picnic>soft drink; picture>image; pie>army; pie>basket; pie>beef; pie>biscuit; pie>box; pie>bread; pie>butcher; pie>cake; pie>chicken; pie>flour; pie>honey; pie>horse; pie>ice cream; pie>loaf; pie>mushroom; pie>pastry; pie>pizza; pie>pottery; pie>sea; pie>steak; pie>vegetable; pie>wheat; piece>coin; piece>sandwich; piece>unit; pig>animal; pig>art; pig>bag; pig>extinction; pig>hair; pig>hunting; pig>idiom; pig>leather; pig>literature; pig>mammal; pig>metaphor; pig>pork; pig>refrigerator; pillow>back; pillow>bed; pillow>chair; pillow>cloth; pillow>cotton; pillow>cushion; pillow>dust; pillow>duvet; pillow>feather; pillow>knee; pillow>laundry; pillow>neck; pillow>silk; pillow>sleep; pillow>television; pin>brass; pin>copper; pin>steel; pin>wire; pine>bark; pine>bird; pine>butterfly; pine>desert; pine>garden; pine>goat; pine>leaf; pine>park; pine>plant; pine>seed; pine>soil; pine>species; pine>tea; pine>timber; pine>tree; pineapple>bat; pineapple>cancer; pineapple>cherry; pineapple>digestion; pink>advertising; pink>aluminium; pink>beauty; pink>blue; pink>cartoon; pink>clothing; pink>corporation; pink>down; pink>girl; pink>globalization; pink>green; pink>hat; pink>health; pink>innocent; pink>love; pink>newspaper; pink>people; pink>pig; pink>prosecution; pink>purple; pink>red; pink>scarf; pink>slang; pink>socialism; pink>solicitor; pink>spaces; pink>sunset; pink>sweatshirt; pink>toy; pink>verb; pink>vest; pink>white; pink>yellow; pink>yoga; pink>beer; pink>cereal; pink>litre; pink>volume; pink>rent; pink>aid; pink>emotion; pink>empathy; pink>mercy; pink>money; pink>self-esteem; pink>sorrow; pink>sympathy; pizza>bacon; pizza>banana; pizza>beef; pizza>bread; pizza>business; pizza>cabbage; pizza>champagne; pizza>cheese; pizza>chicken; pizza>corn; pizza>fast food; pizza>garlic; pizza>ham; pizza>honey; pizza>immigrant; pizza>lettuce; pizza>meat;

pizza>mushroom; pizza>olive; pizza>onion; pizza>oven; pizza>pineapple; pizza>pork; pizza>salad; pizza>salt; pizza>sausage; pizza>spinach; pizza>tomato; pizza>ton; pizza>tuna; pizza>vegetable; place>gambling; place>mansion; plan>business; plan>career; plan>combat; plan>communication; plan>corporation; plan>diplomacy; plan>engineer; plan>goal; plan>government; plan>individual; plan>legislation; plan>logic; plan>map; plan>mind; plan>planning; plan>project; plan>psychology; plan>regulation; plan>science; plan>set; plan>space; plan>strategy; planet>astronomy; planet>atmosphere; planet>carbon dioxide; planet>common sense; planet>day; planet>earth; planet>fluid; planet>gas; planet>history; planet>inclination; planet>iron; planet>iron; planet>life; planet>oxygen; planet>population; planet>pressure; planet>religion; planet>science; planet>season; planet>space; planet>star; planet>sun; planet>telescope; planet>water; planet>volcano; planet>year; planning>intelligence; planning>management; planning>plan; plant>agriculture; plant>alcohol; plant>ant; plant>aspirin; plant>bacteria; plant>beer; plant>branch; plant>carbon dioxide; plant>cereal; plant>coal; plant>coffee; plant>cotton; plant>crop; plant>erosion; plant>extinction; plant>flower; plant>forest; plant>frost; plant>fruit; plant>garden; plant>gardening; plant>grain; plant>grass; plant>herb; plant>leaf; plant>life; plant>light; plant>mushroom; plant>oak; plant>olive; plant>oxygen; plant>population; plant>potato; plant>rainforest; plant>rice; plant>root; plant>smoking; plant>soil; plant>species; plant>spice; plant>sugar; plant>sunlight; plant>tea; plant>temperature; plant>timber; plant>tobacco; plant>tree; plant>water; plant>weed; plant>vegetable; plant>wheat; plant>wine; plant>wood; plastic>alcohol; plastic>bone; plastic>carbon; plastic>chewing gum; plastic>copper; plastic>density; plastic>film; plastic>glass; plastic>global warming; plastic>leather; plastic>metal; plastic>oxygen; plastic>paper; plastic>rubber; plastic>silk; plastic>stocking; plastic>wood; player>cd player; playground>business; playground>child; playground>enjoyment; playground>metaphor; playground>park; playground>president; playground>recreation; playground>rocket; playground>school; playground>sport; plea>crime; plea>trial; pleasure>art; pleasure>enjoyment; pleasure>entertainment; pleasure>exercise; pleasure>happiness; pleasure>intellectual; pleasure>leisure; pleasure>literature; pleasure>music; pleasure>pain; pleasure>pride; pleasure>psychology; pleasure>sense; pleasure>suffering; plot>grave; plumber>lead; plumber>metaphor; plumber>water; plural>adjective; plural>noun; plural>pronoun; plural>verb; pocket>backpack; pocket>bag; pocket>clothing; pocket>envelope; pocket>jeans; pocket>luggage; pocket>trousers; pocket>wheat; poem>poetry; poet>poetry; poet>writer; poetry>ambiguity; poetry>comedy; poetry>culture; poetry>dialect; poetry>drama; poetry>feeling; poetry>funeral; poetry>globalization; poetry>grammar; poetry>irony; poetry>language; poetry>literacy; poetry>literature; poetry>memory; poetry>metaphor; poetry>music; poetry>narrative; poetry>paragraph; poetry>perception; poetry>person; poetry>rhyme; poetry>rhythm; poetry>science fiction; poetry>song; poetry>symbol; poetry>tragedy; poetry>translation; point>full stop; point>inch; point>prize; poisons>bacteria; poisons>biology; poisons>bite; poisons>carbon monoxide; poisons>heart; poisons>human; poisons>iron; poisons>lead; poisons>liver; poisons>medication; poisons>medicine; poisons>murder; poisons>pain; poisons>physics; poisons>protein; poisons>suicide; polar bear>animal; polar bear>bacteria; polar bear>bear; polar bear>berry; polar bear>climate change; polar bear>crab; polar bear>dna; polar bear>evolution; polar bear>fish; polar bear>liver; polar bear>mammal; polar bear>meat; polar bear>plastic; polar bear>pollution; polar bear>root; polar bear>sea; polar bear>waste; polar bear>whale; polar bear>wolf; pole>column; pole>spouse; pole>tree; police officer>arrest; police officer>bribe; police officer>crime; police officer>criminal; police officer>detective; police officer>fraud; police officer>inspector; police officer>murder; police officer>police; police officer>racism; police officer>rape; police officer>salary; police officer>traffic; police station>building; police station>inspector; police station>police officer; police station>suburb; police>arrest; police>bicycle; police>crime; police>detective; police>fraud; police>jury; police>law; police>police officer; police>population; police>pork; police>prostitute; police>racism; police>radio; police>torque; police>traffic; police>uniform; policeman>police officer; policewoman>police officer; policy>artificial intelligence; policy>contract; policy>debate; policy>evaluation; policy>gambling; policy>implementation; policy>insurance; policy>intent; policy>law; policy>lottery; policy>regulation; politeness>culture; politeness>shame; politician>appointment; politician>election; politician>government; politician>inheritance; politician>politics; politics>art; politics>coin; politics>commerce; politics>communication; politics>company; politics>contract; politics>corruption; politics>education; politics>election; politics>government; politics>individual; politics>inheritance; politics>justice; politics>law; politics>legislation; politics>majority; politics>monopoly; politics>negotiation; politics>parliament; politics>parliament; politics>property; politics>reform; politics>republic; politics>revenue; politics>science; politics>society; politics>tradition; politics>tribute; pollution>boat; pollution>cancer; pollution>carbon dioxide; pollution>carbon monoxide; pollution>chemical; pollution>climate change; pollution>coal; pollution>energy; pollution>global warming; pollution>industry; pollution>lead; pollution>litter; pollution>medication; pollution>medicine; pollution>ozone; pollution>paint; pollution>rash; pollution>recycling; pollution>smog; pollution>soil; pollution>temperature; pollution>throat; pollution>waste; pond>acre; pond>castle; pond>lake; pond>waterfall; pond>village; pony>genetics; pony>horse; pool>swimming pool; pop>population; pop>soft drink; popularity>cooperation; popularity>empathy; popularity>self-esteem; popularity>video game; population>human; population>human rights; population>poverty; population>religion; population>sex; population>species; pork>apple; pork>bacon; pork>beef; pork>bone; pork>cattle; pork>cholesterol; pork>fat; pork>ham; pork>meat; pork>mushroom; pork>rib; pork>sausage; pork>sheep; pork>shield; pork>shoe; pork>turkey; pork>vegetable; port>airport; port>canal; port>customs; port>harbour; port>road; portrait>emperor; portrait>government; portrait>king; portrait>literature; portrait>politics; portrait>sculpture; portrait>symbol; possession>ownership; possibility>fact; possibility>probability; post office>mail; post>column; post>mail; postcard>envelope; postcard>paper; postcard>photograph; postcard>reality; postcard>souvenir; postcard>stereotype; poster>apartment; poster>college; poster>concert; poster>film; poster>illustration; poster>music; poster>propaganda; poster>protest; poster>teenager; poster>tourism; pot>pottery; potato>carbon dioxide; potato>crop; potato>frost; potato>rice; potato>seed; potato>stomach; potato>wheat; potato>vitamin; potato>yogurt; potential>physics; pottery>archaeology; pottery>art; pottery>carbon monoxide; pottery>coal; pottery>electricity; pottery>gas; pottery>iron; pottery>turkey; pottery>wood; poverty>disease; poverty>disposable income; poverty>erosion; poverty>exchange rate; poverty>homelessness; poverty>hunger; poverty>literacy; poverty>pregnancy; poverty>racism; poverty>road; poverty>starvation; poverty>stereotype; praise>blame; praise>criticism; praise>motivation; praise>self-esteem; prayer>agriculture; prayer>apple; prayer>decease; prayer>language; prayer>love; prayer>mosque; prayer>religion; prayer>ritual; prayer>sacrifice; prayer>sin; prayer>statistics; prayer>worship; prayer>yoga; precedent>appeal; precedent>contract; precedent>court; precedent>democracy; precedent>district; precedent>fact; precedent>law; precedent>professor; prediction>authority; prediction>engineering; prediction>experiment; prediction>future; prediction>hypothesis; prediction>insurance; prediction>measurement; prediction>navy; prediction>planning; prediction>politics; prediction>probability; prediction>revelation; prediction>risk; prediction>star; prediction>statistics; prediction>stock market; prediction>validity; preference>biology; preference>choice; preference>economics; preference>genetics; preference>happiness; preference>motivation; preference>psychology; prefix>suffix; pregnancy>abortion; pregnancy>bone; pregnancy>neck; pregnancy>pain; pregnancy>spinach; pregnancy>week; prejudice>disability; prejudice>empathy; prejudice>gender; prejudice>language; prejudice>nationality; prejudice>religion; premises>building; premises>negligence; premises>property; preparation>drug; preparation>food; present>day; present>future; present>god; present>light; present>paradigm; present>perception; present>star; present>time; presentation>lecture; presentation>speech; presenter>actor; presenter>comedian; presenter>film; presenter>journalist; presenter>local; presenter>museum; presenter>radio; presenter>singer; presenter>television; presenter>travel; presenter>university; presenter>weather forecast; preservation>toughness; presidency>prime minister; president>club; president>community; president>company; president>country; president>election; president>government; president>judge; president>leader; president>mayor; president>organization; president>parliament; president>prime minister; president>republic; president>turkey; president>university; president>war; pressure>area; pressure>density; pressure>explosion; pressure>fluid; pressure>force; pressure>gas; pressure>liquid; pressure>microphone; pressure>momentum; pressure>water; presumption>divorce; presumption>evidence; presumption>fraud; presumption>law; prevention>risk; price>commodity; price>cost; price>currency; price>dollar; price>euro; price>marketing; price>assault; price>death; price>embarrassment; price>emotion; price>empire; price>envy; price>god; price>human rights; price>humility; price>image; price>justice; price>kindness; price>nation; price>patience; price>racism; price>religion; price>self-esteem; price>selfishness; price>shame; price>sin; price>synonym; price>vanity; price>virtue; price>woman; priest>authority; priest>ceremony; priest>confirmation; priest>religion; priest>ritual; priest>sacrifice; priest>skirt; primary school>science; prime minister>chancellor; prime minister>constitution; prime minister>election; prime minister>government; prime minister>parliament; prime minister>president; prime minister>privilege; prime minister>province; prime minister>turkey; prince>ceremony; prince>count; prince>emperor; prince>king; prince>law; prince>prefix; prince>princess; prince>realm; prince>treaty; princess>king; princess>prince; principal>debt; principle>biology; principle>cause; principle>conscience; principle>law; principle>physics; principle>statistic; priority>requirement; prison>castle; prison>gym; prison>hospital; prison>imprisonment; prison>kitchen; prison>library; prison>police officer; prison>prisoner; prison>punishment; prison>suicide; prison>suspect; prison>war; prison>verdict; prisoner>arrest; prisoner>hostage; prisoner>human rights; prisoner>imprisonment; privacy>advertising; privacy>blanket; privacy>clothing; privacy>constitution; privacy>corporation; privacy>democracy; privacy>design; privacy>discrimination; privacy>earnings; privacy>email; privacy>fence; privacy>fraud; privacy>government; privacy>human rights; privacy>income; privacy>individual; privacy>security; privacy>solitude; privacy>towel; privacy>wall; prize>award; prize>controversy; prize>jealousy; prize>medal; prize>money; probability>artificial intelligence; probability>authority; probability>definition; probability>experiment; probability>finance; probability>gambling; probability>odds; probability>philosophy; probability>physics; probability>risk; probability>science; probability>statistics; probability>theory; probability>witness; problems>business; problems>doubt; problems>engineering; problems>inquiry; problems>question; problems>society; problems>walking; problems>worry; procedure>recipe; proceedings>textbook; procession>art; procession>carnival; procession>carriage; procession>choir; procession>circus; procession>death; procession>funeral; procession>icon; procession>mayor; procession>parade; procession>poverty; procession>princess; procession>status symbol; procession>train; procession>wedding; produce>apple; produce>autumn; produce>berry; produce>broccoli; produce>cabbage; produce>crop; produce>cucumber; produce>farm; produce>fruit; produce>garlic; produce>grape; produce>harvest; produce>leek; produce>lemon; produce>lettuce; produce>melon; produce>onion; produce>pea; produce>peach; produce>pear; produce>region; produce>season; produce>spinach; produce>summer; produce>supermarket; produce>tomato; produce>vegetable; produce>winter; production>manufacturing; production>theatre; productivity>validity; profession>architect; profession>architecture; profession>examination; profession>law; profession>medicine; profession>pharmacy; profession>professional; profession>teaching; profession>training; profession>university; profession>vocation; professional>amateur; professional>electrician; professional>mind; professional>nurse; professional>plumber; professional>profession; professor>business; professor>college; professor>comedian; professor>design; professor>economics; professor>education; professor>engineering; professor>expert; professor>law; professor>lecture; professor>lecturer; professor>literature; professor>medicine; professor>mosque; professor>music; professor>protagonist; professor>psychologist; professor>research; professor>science; professor>seminar; professor>stereotype; professor>teacher; professor>university; programme>program; programmer>database; programmer>profession; programmer>video game; progression>education; progression>training; project>building; project>business; project>construction; project>contract; project>dissertation; project>engineer; project>goal; project>plan; project>science; project>task; project>team; promise>contract; promise>god; promise>noun; promise>prosperity; promise>verb; promise>vow; pronoun>adjective; pronoun>grammar; pronoun>noun; pronoun>preposition; pronunciation>education; pronunciation>language; proof>argument; proof>evidence; propaganda>advertising; propaganda>attention; propaganda>bias; propaganda>blame; propaganda>business; propaganda>cause; propaganda>deception; propaganda>education; propaganda>fear; propaganda>forgery; propaganda>laboratory; propaganda>leaflet; propaganda>lie; propaganda>news; propaganda>ownership; propaganda>persuasion; propaganda>rape; propaganda>slogan; propaganda>timber; propaganda>torture; propaganda>truth; propaganda>war; propaganda>west; property>abortion; property>capitalism; property>clothing; property>constitution; property>contract; property>corporation; property>economics; property>gift; property>god; property>government; property>idea; property>industry; property>interest; property>law; property>liberty; property>owner; property>ownership; property>parliament; property>regulation; property>religion; property>right; property>socialism; property>state; property>stock; property>tax; property>temple; property>theft; property>trade; property>wealth; proposals>proposition; proposition>belief; proposition>fact; proposition>logic; proposition>philosophy; proposition>psychology; proposition>truth; proposition>validity; prosecution>prosecutor; prosecutor>advocate; prosecutor>detective; prosecutor>judge; prosecutor>jury; prosecutor>law; prosecutor>magistrate; prosecutor>police; prosecutor>profession; prosecutor>solicitor; prosperity>ecology; prosperity>happiness; prosperity>health; prosperity>immune system; prosperity>income; prosperity>wealth; protagonist>audience; protagonist>narrative; protagonist>narrator; protagonist>tragedy; protection>safety; protection>security; protection>toughness; proteins>acid; proteins>atom; proteins>blood; proteins>digestion; proteins>dna; proteins>evolution; proteins>leather; proteins>gene; proteins>hair; proteins>lung; proteins>muscle; proteins>oxygen; proteins>starvation; proteins>virus; protest>bombing; protest>culture; protest>globalization; protest>government; protest>inflation; protest>injustice; protest>monopoly; protest>police; protest>policy; protest>revolution; protest>riot; protest>sport; protest>stock; protest>suicide; protest>war; proverbs>advertising; proverbs>literature; proverbs>metaphor; proverbs>paradox; proverbs>rhyme; proverbs>saying; provider>prostitute; province>constitution; province>country; province>county; province>education; province>magistrate; province>parliament; province>property; province>region; province>republic; proximity>distance; psychiatrist>medicine; psychiatrist>profession; psychiatrist>psychologist; psychiatrist>psychology; psychologist>dissertation; psychologist>psychiatrist; psychologist>psychology; psychologist>seminar; psychologist>training; psychologist>adaptation; psychology>anxiety; psychology>artificial intelligence; psychology>attention; psychology>chemistry; psychology>child; psychology>consciousness; psychology>death; psychology>education; psychology>emotion; psychology>evolution; psychology>experiment; psychology>explanation; psychology>happiness; psychology>information; psychology>interview; psychology>knowledge; psychology>laboratory; psychology>language; psychology>learning; psychology>medicine; psychology>memory; psychology>motivation; psychology>myth; psychology>pain; psychology>paradigm; psychology>perception; psychology>persuasion; psychology>philosophy; psychology>physics; psychology>pleasure; psychology>psychiatrist; psychology>psychologist;

psychology-questionnaire; psychology>reasoning; psychology>school; psychology>stereotype; psychology>symbol; psychology>teaching; psychology>technology;  
psychology>thought; psychology>tool; pub>beer; pub>century; pub>dna; pub>freezer; pub>intellectual; pub>landlord; pub>nightclub; pub>pie; pub>pump; pub>stable;  
pub>tournament; public transport>airline; public transport>bus; public transport>canal; public transport>carbon dioxide; public transport>cd player; public transport>fare; public  
transport>ferry; public transport>passenger; public transport>pollution; public transport>revenue; public transport>rush hour; public transport>subsidy; public transport>traffic jam;  
publication>magazine; publication>newspaper; publicity>advertising; publicity>book; publicity>celebrity; publicity>employment; publicity>marketing; pudding>brand;  
pudding>butter; pudding>cereal; pudding>dessert; pudding>flower; pudding>milk; pudding>oven; pudding>rice; pudding>sauceman; pudding>sugar; pullover>gymnastics;  
pullover>sweater; pulse>blood; pulse>bone; pulse>elbow; pulse>heart; pulse>knee; pulse>light; pulse>medicine; pulse>neck; pulse>wrist; pump>air conditioning; pump>energy;  
pump>gas; pump>liquid; pump>pressure; punctuation>alphabet; punctuation>drama; punctuation>full stop; punctuation>semicolon; punctuation>time; punctuation>usage;  
punctuation>writing; punishment>authority; punishment>child; punishment>cooperation; punishment>crime; punishment>criminal; punishment>law; punishment>liberty;  
punishment>pain; punishment>parent; punishment>prison; punishment>revenge; punishment>society; punishment>teacher; pupil>alcohol; pupil>cat; pupil>dog; pupil>evolution;  
pupil>fox; pupil>goat; pupil>horse; pupil>plural; pupil>sheep; puppy>dog; puppy>eye; puppy>kitten; purity>vice; purple>air; purple>blood; purple>blue;  
purple>capitalism; purple>emperor; purple>red; purple>rose; purple>silks; purple>soundtrack; purple>star; purple>sugar; purple>tennis; purple>wool; purple>intention;  
purse>boxing; purse>handbag; purse>wallet; push>force; puzzle>game; puzzle>inquiry; puzzle>pattern; puzzle>problem; puzzle>research; puzzle>toy; puzzle>verb;  
pyramid>basketball; pyramid>brick; pyramid>millennium; pyramid>pottery; pyramid>temple; pyramid>tomb; pyramid>turkey; pyramid>volleyball; qualification>education;  
qualification>examination; qualification>tournament; quantity>circle; quantity>density; quantity>distance; quantity>energy; quantity>gender; quantity>heat; quantity>noun;  
quantity>person; quantity>pressure; quantity>ratio; quantity>time; quantity>volume; quarrel>arrow; query>question; quest>fantasy; quest>friendship; quest>hero; quest>literature;  
quest>temptation; question mark>diagnosis; question mark>exclamation mark; question mark>full stop; question mark>punctuation; question mark>semicolon; question  
mark>university; question>answer; question>concept; question>debate; question>doubt; question>exam; question>examination; question>grammar; question>information;  
question>inquiry; question>logic; question>philosophy; question>problem; question>proposition; question>question mark; question>quiz; question>research; question>theory;  
question>truth; question>verb; questionnaire>question; questionnaire>research; questionnaire>statistics; quiet>silence; quiz>blog; quiz>game; quiz>radio; quiz>television;  
quotation>author; quotation>blog; quotation>cliché; quotation>email; quotation>film; quotation>painting; quotation>proverb; quotation>punctuation; quote>quotation; rabbit>animal;  
rabbit>cartoon; rabbit>cat; rabbit>desert; rabbit>disease; rabbit>dog; rabbit>forest; rabbit>fur; rabbit>gas; rabbit>grass; rabbit>gun; rabbit>luck; rabbit>mammal; rabbit>predator;  
rabbit>pregnancy; rabbit>protein; rabbit>sheep; rabbit>species; rabbit>vitamin; rabbit>woodland; rabbit>wool; racism>biology; racism>culture; racism>discrimination; racism>dislike;  
racism>education; racism>folk; racism>health care; racism>history; racism>human rights; racism>jazz; racism>nation; racism>philosophy; racism>politician; racism>prejudice;  
racism>statistics; racism>stereotype; racism>synonym; racism>violence; racism>xenophobia; racist>racism; radiation>atom; radiation>cancer; radiation>energy; radiation>light;  
radiation>physics; radiation>red; radiation>spectrum; radiation>sun; radiation>thermometer; radiation>x-ray; radio>atom; radio>computer; radio>dvd; radio>electronics;  
radio>energy; radio>hobby; radio>horizon; radio>information; radio>invention; radio>investment; radio>light; radio>microphone; radio>mobile phone; radio>music; radio>regulation;  
radio>silks; radio>technology; radio>telecommunications; radio>television; radio>volm; radio>x-ray; raid>terrorist; rail>curtain; rain>agriculture; rain>atmosphere; rain>climate;  
rain>cloud; rain>continent; rain>desert; rain>flood; rain>global warming; rain>hall; rain>iron; rain>ocean; rain>parachute; rain>plant; rain>rainbow; rain>raincoat;  
rain>smoke; rain>snow; rain>soil; rain>storm; rain>summer; rain>thunder; rain>thunderstorm; rain>tornado; rain>umbrella; rain>water; rain>weather; rain>water; rain>weather; rain>water; rain>water;  
rainbow>angle; rainbow>blue; rainbow>cloud; rainbow>experiment; rainbow>fountain; rainbow>green; rainbow>helicopter; rainbow>horizon; rainbow>laser; rainbow>light;  
rainbow>red; rainbow>sunlight; rainbow>waterfall; rainbow>wave; rainbow>yellow; raincoat>rain; rainforest>acre; rainforest>adaptation; rainforest>aluminium; rainforest>bacteria;  
rainforest>bat; rainforest>bird; rainforest>branch; rainforest>butterfly; rainforest>carbon dioxide; rainforest>cloud; rainforest>coast; rainforest>eagle; rainforest>earth;  
rainforest>ecology; rainforest>extinction; rainforest>forest; rainforest>iron; rainforest>jungle; rainforest>leaf; rainforest>leopard; rainforest>lung; rainforest>mammal;  
rainforest>medicine; rainforest>monkey; rainforest>oxygen; rainforest>rain; rainforest>reptile; rainforest>river; rainforest>snake; rainforest>species; rainforest>sunlight;  
rainforest>tree; rainforest>turkey; rainforest>vegetation; rainforest>vine; rainforest>volcano; rank>hierarchy; rape>anger; rape>blackmail; rape>blood; rape>consent; rape>family;  
rape>friend; rape>human rights; rape>marriage; rape>police; rape>secondary school; rape>suicide; rape>war; rape>virgin; rash>anxiety; rash>blister; rash>bruise; rash>friction;  
rash>heat; rash>irritation; rash>pregnancy; rash>sun; rash>vacine; rat>animal; rat>bean; rat>brain; rat>breed; rat>cat; rat>crime; rat>disease; rat>dog; rat>drug; rat>ecology;  
rat>experiment; rat>genetics; rat>health; rat>heart; rat>intelligence; rat>kidney; rat>liver; rat>mammal; rat>mouse; rat>noun; rat>psychology; rat>science fiction; rat>species;  
rat>suburb; rat>verb; rate>exchange rate; rating>evaluation; ratio>slope; ratio>television; razor>barber; razor>blade; razor>bread; razor>bronze; razor>cutlery; razor>stool;  
reality>astronomy; reality>consciousness; reality>culture; reality>disposition; reality>dream; reality>energy; reality>essence; reality>evolution; reality>existence; reality>fact;  
reality>fantasy; reality>fiction; reality>film; reality>future; reality>illusion; reality>imagination; reality>jargon; reality>knowledge; reality>language; reality>lie; reality>life;  
reality>matter; reality>measurement; reality>mind; reality>momentum; reality>nature; reality>necessity; reality>novel; reality>observation; reality>phenomenon; reality>philosophy;  
reality>physics; reality>politics; reality>present; reality>quantity; reality>reason; reality>religion; reality>science fiction; reality>space; reality>theory; reality>thought; reality>time;  
reality>truth; reality>virtual reality; reality>virtue; realm>empire; realm>argument; realm>art; realm>artificial intelligence; realm>behaviour; realm>belief; realm>calculation;  
reason>cause; reason>consciousness; reason>consciousness; reason>economics; reason>faith; reason>fantasy; reason>feeling; reason>friendship; reason>head;  
reason>heart; reason>history; reason>human; reason>imagination; reason>inquiry; reason>institution; reason>intellect; reason>knowledge; reason>language; reason>law;  
reason>logic; reason>mind; reason>nature; reason>philosopher; reason>philosophy; reason>probability; reason>psychology; reason>reality; reason>religion; reason>revelation;  
reason>science; reason>space; reason>symbol; reason>theory; reason>thought; reason>time; reason>tradition; reason>truth; reason>wisdom; reason>wisdom; reason>wisdom; rebel>rebellion;  
rebellion>authority; rebellion>behaviour; rebellion>government; rebellion>president; rebellion>revolution; rebellion>terrorism; receipt>euro; receipt>payment; receipt>tax;  
reception>popularity; reception>receipt; reception>receptionist; receptionist>business; receptionist>coffee; receptionist>company; receptionist>employee; receptionist>greeting;  
receptionist>interview; receptionist>mail; receptionist>office; receptionist>organization; receptionist>secretary; receptionist>tea; receptionist>telephone; recession>merger;  
recession>productivity; recipe>bay; recipe>food; recognition>award; record>document; record>recording; recording>data; recording>writing; recovery>care; recreation>amusement;  
recreation>beach; recreation>employment; recreation>entertainment; recreation>fun; recreation>happiness; recreation>leisure; recreation>park; recreation>pleasure;  
recreation>seminar; recreation>sleep; recreation>tourism; recruit>recruitment; recruitment>advertising; recruitment>company; recruitment>employer; recruitment>employment;  
recruitment>knowledge; recruitment>literacy; recruitment>organization; recruitment>reference; recruitment>skill; rectangle>angle; rectangle>area; rectangle>butterfly;  
rectangle>circle; rectangle>green; rectangle>length; rectangle>square; rectangle>wire; recycling>aluminium; recycling>architect; recycling>chemist; recycling>computer;  
recycling>demand; recycling>economics; recycling>economist; recycling>electronics; recycling>energy; recycling>environmentalist; recycling>factory; recycling>finance;  
recycling>glass; recycling>gold; recycling>iron; recycling>law; recycling>lead; recycling>market; recycling>material; recycling>metal; recycling>mining; recycling>paper;  
recycling>plastic; recycling>resource; recycling>steel; recycling>sustainability; recycling>timber; recycling>warehouse; recycling>waste; recycling>wool; red>aggression; red>anger;  
red>autumn; red>beauty; red>blood; red>blue; red>boxing; red>cherry; red>courage; red>drug; red>dvd; red>fire; red>food; red>force; red>green; red>happiness; red>hate;  
red>heat; red>laser; red>love; red>medicine; red>night; red>oak; red>pottery; red>risk; red>rose; red>socialism; red>soft drink; red>south; red>star; red>star; red>strawberry;  
red>sun; red>sunrise; red>temperature; red>time; red>tomato; red>turkey; red>war; red>well-being; red>violin; red>yellow; redevelopment>carbon footprint;  
referee>cricket; referee>female; referee>ice hockey; referee>volleyball; reference>art; reference>committee; reference>diary; reference>dictionary;  
reference>energy; reference>god; reference>invention; reference>knowledge; reference>library; reference>matter; reference>meeting; reference>negotiation; reference>noun;  
reference>prefix; reference>project; reference>pronoun; reference>referee; reference>referendum; reference>telephone; reference>validity; reference>word; referendum>alcohol;  
referendum>constitution; referendum>currency; referendum>election; referendum>euro; referendum>gerund; referendum>independence; referendum>initiative; referendum>law;  
referendum>majority; referendum>propaganda; referendum>republic; referendum>unity; referendum>vote; reform>hyphen; reform>revolution; reform>spelling; reform>safety;  
refugee>anxiety; refugee>arrest; refugee>climate change; refugee>country; refugee>exile; refugee>government; refugee>human rights; refugee>male; refugee>nationality;  
refugee>passport; refugee>poverty; refugee>risk; refugee>slavery; refugee>suicide; refugee>turkey; refugee>war; refugee>violence; refugee>geography; regime>measurement;  
region>atmosphere; region>climate; region>continent; region>county; region>culture; region>earth; region>earthquake; region>ecology; region>economics; region>exploration;  
region>geography; region>geology; region>human; region>ocean; region>politics; region>province; region>tourism; region>water; registration>register; regulation>contract;  
regulation>economics; regulation>employment; regulation>government; regulation>industry; regulation>information; regulation>law; regulation>monopoly; regulation>policy;  
regulation>pollution; regulation>price; regulation>society; regulation>wage; rehearsal>performance; reign>death; relation>diplomacy; relaxation>recreation; relevance>contradiction;  
relevance>description; relevance>distraction; relevance>economist; relevance>famine; relevance>intent; relevance>poverty; relief>earth; relief>sun; religion>art;  
religion>belief; religion>culture; religion>dance; religion>education; religion>evolution; religion>experiment; religion>faith; religion>family; religion>festival; religion>funeral;  
religion>god; religion>government; religion>hospital; religion>law; religion>music; religion>philosophy; religion>politics; religion>prayer; religion>priest; religion>revelation;  
religion>ritual; religion>sacrifice; religion>science; religion>symbol; religion>temple; religion>terrorism; religion>theory; religion>worship; relish>cooking; relish>fruit; relish>garlic;  
relish>jam; relish>pear; relish>sauce; relish>vegetable; remains>body; remains>skeleton; remark>comment; remedy>education; remedy>therapy; remorse>empathy;  
remorse>fear; remorse>marketing; remorse>psychology; remorse>resentment; remote control>dog; remote control>dvd; remote control>electronics; remote control>microphone;  
remote control>robot; remote control>television; remote control>tv; renovation>engineering; renovation>planning; renovation>repair; reply>answer; reply>question;  
report>presentation; reporter>journalist; representation>contract; reproduction>adult; reproduction>analogy; reproduction>animal; reproduction>bacteria; reproduction>bee;  
reproduction>bird; reproduction>evolution; reproduction>female; reproduction>fish; reproduction>genetics; reproduction>human; reproduction>life; reproduction>lottery;  
reproduction>male; reproduction>plant; reproduction>rabbit; reproduction>reptile; reproduction>seed; reproduction>sex; reproduction>shark; reproduction>virus; reptile>bird;  
reptile>crocodile; reptile>digestion; reptile>dinosaur; reptile>extinction; reptile>fish; reptile>heart; reptile>kidney; reptile>leather; reptile>lion; reptile>lung; reptile>mammal;  
reptile>oxygen; reptile>snake; republic>common sense; republic>constitution; republic>coup; republic>democracy; republic>independence; republic>president; republic>prime  
minister; reputation>assault; reputation>asset; reputation>auction; reputation>behaviour; reputation>belief; reputation>brand; reputation>business; reputation>candidate;  
reputation>citizen; reputation>community; reputation>company; reputation>competitor; reputation>consumer; reputation>cooperation; reputation>corporation; reputation>culture;  
reputation>customer; reputation>deception; reputation>definition; reputation>education; reputation>employee; reputation>evaluation; reputation>evolution; reputation>friendship;  
reputation>globalization; reputation>gossip; reputation>government; reputation>headache; reputation>honour; reputation>industry; reputation>interaction; reputation>investor;  
reputation>journalism; reputation>leadership; reputation>management; reputation>news; reputation>opinion; reputation>organization; reputation>person; reputation>phenomenon;  
reputation>potential; reputation>risk; reputation>role; reputation>science; reputation>social networking; reputation>stock market; reputation>sum; reputation>wealth;  
request>question; requirement>illusion; requirement>implementation; rescue>ambulance; rescue>court; rescue>helicopter; rescue>horse; rescue>injury; rescue>life;  
rescue>patient; rescue>police; rescue>prosecutor; rescue>tool; rescue>training; rescue>vehicle; rescue>wilderness; research>analysis; research>art; research>corporation;  
research>credibility; research>curiosity; research>dissertation; research>evidence; research>experiment; research>history; research>hypothesis; research>information;  
research>integrity; research>interpretation; research>knowledge; research>medicine; research>nature; research>scholar; research>science; research>theory; researcher>research;  
researcher>science; researcher>scientist; resemblance>similarity; resentment>anger; resentment>contempt; resentment>discrimination; resentment>envy; resentment>hatred;  
resentment>injustice; resentment>jealousy; resentment>prejudice; resentment>remorse; resentment>revenge; resentment>status; reserve>park; residence>home;  
residence>house; resident>patient; resignation>election; resignation>inheritance; resistance>friction; resort>beach; resort>coast; resort>entertainment; resort>golf; resort>hotel;  
resort>nightclub; resort>pub; resort>recreation; resort>restaurant; resort>skiing; resort>soft drink; resort>swimming pool; resort>tourism; resource>air; resource>benefit;  
resource>biology; resource>competition; resource>computer; resource>cost; resource>ecology; resource>economics; resource>fish; resource>infrastructure; resource>interest;  
resource>leadership; resource>management; resource>prosperity; resource>reproduction; resource>risk; resource>scarcity; resource>sustainability; resource>wage;  
resource>water; resource>wealth; respect>affection; respect>disrespect; respect>entity; respect>person; respect>principle; respect>rudeness; response>answer; response>output;  
responsibility>blame; responsibility>duty; responsibility>obligation; rest>leg; rest>leisure; rest>sleep; restaurant>business; restaurant>catering; restaurant>chef;  
restaurant>customer; restaurant>disability; restaurant>drink; restaurant>fast food; restaurant>food; restaurant>hygiene; restaurant>lunch; restaurant>menu; restaurant>mess;





esteem>biology; self-esteem>chemistry; self-esteem>creativity; self-esteem>education; self-esteem>emotion; self-esteem>experiment; self-esteem>feeling; self-esteem>happiness; self-esteem>love; self-esteem>measurement; self-esteem>perception; self-esteem>person; self-esteem>pride; self-esteem>psychology; self-esteem>self-awareness; self-esteem>self-confidence; self-esteem>sense; self-esteem>shame; self-esteem>shyness; self-esteem>teaching; selfishness>economy; selfishness>empathy; selfishness>generosity; selfishness>philosophy; selfishness>psychology; selfishness>religion; self-respect>self-esteem; semicolon>clause; semicolon>comma; semicolon>exclamation mark; semicolon>full stop; semicolon>punctuation; semicolon>question mark; semicolon>word; semicolon>debate; seminar>lecture; seminar>university; sensation>sense; sense>attention; sense>bat; sense>bee; sense>bird; sense>blindness; sense>blood; sense>communication; sense>dolphin; sense>drug; sense>illusion; sense>insect; sense>light; sense>pain; sense>perception; sense>pressure; sense>psychologist; sense>reptile; sense>shark; sense>skin; sense>snake; sense>sound; sense>sweet; sense>taste; sense>throat; sense>time; sense>tongue; sense>touch; sensibility>emotion; sentiment>emotion; sentiment>feeling; september>autumn; september>day; september>month; september>school; september>year; sequence>bit; sequence>uncountable; series>episode; series>sequence; series>serial; series>species; set>gang; set>jargon; set>onion; set>potato; set>setting; set>tennis; setback>problem; setting>classroom; sewing>archaeology; sewing>bone; sewing>clothing; sewing>computer; sewing>craft; sewing>fashion; sewing>fur; sewing>hobby; sewing>leather; sewing>pin; sewing>salting; sewing>vein; sex>ant; sex>bird; sex>dna; sex>evolution; sex>female; sex>fish; sex>flower; sex>genetics; sex>human; sex>insect; sex>male; sex>mammal; sex>mushroom; sex>pine; sex>reptile; sex>seed; sex>species; shade>mud; shade>sunglasses; shadow>aircraft; shadow>dimension; shadow>earth; shadow>ghost; shadow>light; shadow>shade; shadow>space; shadow>steam; shadow>sun; shadow>wind; shame>blame; shame>contempt; shame>culture; shame>embarrassment; shame>emotion; shame>humility; shame>punishment; shampoo>acid; shampoo>coconut; shampoo>dirty; shampoo>fragrance; shampoo>hair; shampoo>infant; shampoo>irritation; shampoo>lemon; shampoo>olive; shampoo>peanut; shampoo>rice; shampoo>soap; shampoo>straw; shampoo>surgery; shampoo>water; shampoo>vinegar; shark>circle; shape>curve; shape>dimension; shape>sphere; shape>square; shark>animal; shark>arm; shark>blood; shark>cancer; shark>crystal; shark>earth; shark>eye; shark>fish; shark>god; shark>hair; shark>heart; shark>jaw; shark>kidney; shark>leather; shark>mammal; shark>muscle; shark>nose; shark>ocean; shark>offspring; shark>oxygen; shark>protein; shark>pupil; shark>skate; shark>skeleton; shark>status symbol; shark>supermarket; shark>tail; shed>aluminium; shed>bar; shed>farm; shed>gardening; shed>hobby; shed>jazz; shed>plastic; shed>tool; shed>tunnel; shed>wood; shed>workshop; sheep>abortion; sheep>adaptation; sheep>agriculture; sheep>animal; sheep>antibiotic; sheep>beef; sheep>carpet; sheep>copper; sheep>dialect; sheep>genetics; sheep>goat; sheep>grass; sheep>idiom; sheep>lip; sheep>mammal; sheep>metaphor; sheep>pig; sheep>reproduction; sheep>saint; sheep>tongue; sheep>vaccination; sheep>weed; sheep>virus; sheep>wool; sheep>word; sheep>paper; sheep>video game; shelter>homelessness; shield>arrow; shield>circle; shield>electronics; shield>leather; shield>metal; shield>police; shield>sword; shield>wood; ship>anchor; ship>boat; ship>cancer; ship>cargo; ship>circle; ship>crab; ship>density; ship>engineer; ship>ferry; ship>fishing; ship>formula; ship>fruit; ship>genetics; ship>globalization; ship>gold; ship>grass; ship>historian; ship>immune system; ship>jail; ship>lake; ship>meat; ship>navy; ship>ocean; ship>port; ship>railway; ship>recycling; ship>river; ship>sail; ship>salting; ship>sailor; ship>salmon; ship>scrap; ship>sea; ship>strap; ship>weather; ship>wheat; ship>wind; shirt>button; shirt>cotton; shirt>dress; shirt>infant; shirt>jacket; shirt>pocket; shirt>silk; shirt>sleep; shirt>sleeve; shirt>socialist; shirt>sweater; shirt>sweatshirt; shirt>trousers; shirt>t-shirt; shirt>waist; shirt>vest; shirt>wool; shoe>ankle; shoe>archaeologist; shoe>basketball; shoe>bone; shoe>boot; shoe>civilization; shoe>climate; shoe>construction; shoe>copper; shoe>cotton; shoe>culture; shoe>dance; shoe>dancing; shoe>design; shoe>dog; shoe>elephant; shoe>fashion; shoe>foot; shoe>friction; shoe>glue; shoe>golf; shoe>heel; shoe>hip; shoe>horse; shoe>human; shoe>hunting; shoe>ice; shoe>ice cream; shoe>knee; shoe>leather; shoe>marathon; shoe>metal; shoe>mining; shoe>mosque; shoe>museum; shoe>peasant; shoe>plastic; shoe>police; shoe>revenue; shoe>rice; shoe>rubber; shoe>running; shoe>sandal; shoe>skateboarding; shoe>ski; shoe>skiing; shoe>slavery; shoe>snow; shoe>status symbol; shoe>steel; shoe>turkey; shoe>uniform; shoe>water; shoe>wood; shooting>combat; shooting>crime; shooting>hunting; shooting>missile; shooting>rocket; shooting>weapon; shop>market; shop>retail; shop>shopping; shop>workshop; shopkeeper>management; shopping>ad; shopping>brand; shopping>business; shopping>department store; shopping>disposable income; shopping>leisure; shopping>logo; shopping>marketing; shopping>negotiation; shopping>pharmacy; shopping>price; shopping>religion; shopping>retail; shopping>supermarket; shopping>trade; shore>beach; shore>coast; shore>erosion; shore>geology; shore>lake; shore>ocean; shore>sea; shore>soil; shorts>basketball; shorts>dress; shorts>garment; shorts>jeans; shorts>pocket; shorts>skirt; shorts>sport; shorts>trousers; shot>shooting; shoulder>bat; shoulder>joint; shoulder>pain; shower>concert; shower>theatre; shower>bathroom; shower>curtain; shower>door; shower>efficiency; shower>hygiene; shower>shampoo; shower>soap; shower>swimming pool; shower>waterfall; shuttle>public transport; shyness>aggression; shyness>anxiety; shyness>child; shyness>conversation; shyness>discomfort; shyness>family; shyness>fear; shyness>feeling; shyness>gene; shyness>hypothesis; shyness>panic; shyness>pregnancy; shyness>proximity; shyness>psychology; shyness>self-confidence; sibling>aggression; sibling>cousin; sibling>dna; sibling>father; sibling>hostility; sibling>inheritance; sibling>love; sibling>mother; sickness>disease; sickness>illness; side effect>drug; side effect>medicine; side effect>pain; side effect>x-ray; side>pirate; side>slavery; side>seeing>tourism; sign>biology; sign>coincidence; sign>communication; sign>flag; sign>full stop; sign>gesture; sign>icon; sign>indication; sign>language; sign>logic; sign>medicine; sign>notice; sign>people; sign>philosophy; sign>poetry; sign>religion; sign>science; sign>signature; sign>symbol; sign>symptom; sign>thunder; sign>telecommunications; signal>traffic light; silence>anger; silence>communication; silence>composer; silence>debate; silence>emotion; silence>mobile phone; silence>piano; silence>sound; silence>speech; silk>ant; silk>bee; silk>carpet; silk>dress; silk>electricity; silk>fibre; silk>fly; silk>glue; silk>light; silk>monopoly; silk>parachute; silk>protein; silk>shirt; silk>spider; silk>tobacco; silk>trade; silk>triangle; silk>turkey; silk>wasp; silver>aluminium; silver>bacteria; silver>brass; silver>carbon; silver>coin; silver>concentration; silver>copper; silver>cutlery; silver>diamond; silver>explosive; silver>female; silver>gold; silver>hammer; silver>infection; silver>iron; silver>lead; silver>metal; silver>mirror; silver>myth; silver>ozone; silver>planet; silver>salt; silver>silk; silver>steel; silver>tea; silver>tin; silver>wine; simplicity>beauty; simplicity>complexity; simplicity>elegance; simplicity>truth; simplification>validity; simulation>aircraft; simulation>biology; simulation>chemistry; simulation>economics; simulation>education; simulation>engineering; simulation>experiment; simulation>film; simulation>finance; simulation>function; simulation>lie; simulation>physics; simulation>prediction; simulation>risk; simulation>scenario; simulation>software; simulation>statistics; simulation>technology; simulation>television; simulation>terrorism; simulation>training; simulation>truth; simulation>video game; simulation>virtual reality; sin>blame; sin>evil; sin>heaven; sin>hell; sin>vanity; sincerity>honesty; sincerity>irony; sincerity>virtue; singer>singing; singing>audition; singing>band; singing>choir; singing>composer; singing>consonant; singing>culture; singing>dolphin; singing>ear; singing>harmony; singing>hip-hop; singing>human; singing>immune system; singing>jazz; singing>lip; singing>lyrics; singing>melody; singing>microphone; singing>music; singing>neck; singing>opera; singing>rhyme; singing>rhythm; singing>security; singing>song; singing>speech; singing>tongue; singing>whale; singing>vowel; single>slang; sink>bathroom; sink>concrete; sink>copper; sink>flower; sink>frying pan; sink>glass; sink>kitchen; sink>noise; sink>plastic; sink>soap; sink>steel; sink>wood; sir>ambassador; sir>inspector; sir>lady; sir>madam; sir>police; sir>professor; sir>slang; siren>song; sister>sibling; sister-in-law>wife; site>construction; site>website; sitting room>living room; size>area; size>dimension; size>height; size>length; size>measurement; size>statistics; size>width; size>volume; skate>animal; skateboarding>skateboard; skateboard>turn; skateboarding>aluminium; skateboarding>bruse; skateboarding>profession; skateboarding>skateboard; skateboarding>surfing; skateboarding>transportation; skating>ice skating; skating>skateboarding; skeleton>adaptation; skeleton>animal; skeleton>ant; skeleton>beak; skeleton>bone; skeleton>coral; skeleton>ear; skeleton>elephant; skeleton>fish; skeleton>flight; skeleton>horse; skeleton>human; skeleton>infant; skeleton>insect; skeleton>jaw; skeleton>muscle; skeleton>nerve; skeleton>nose; skeleton>shark; skeleton>structure; skeleton>tongue; ski>skiing; ski>snowboarding; skiing>ski; skiing>snow; skiing>snowboarding; skills>baker; skills>economy; skills>empathy; skills>energy; skills>language; skills>leadership; skills>learning; skills>motivation; skills>respect; skills>self; skills>teamwork; skills>technology; skill>time; skin>animal; skin>bacteria; skin>bird; skin>blood; skin>body; skin>bone; skin>carbon dioxide; skin>cattle; skin>clothing; skin>cow; skin>fat; skin>feather; skin>fish; skin>frog; skin>fur; skin>goat; skin>hair; skin>heat; skin>horse; skin>injury; skin>leather; skin>mammal; skin>muscle; skin>nerves; skin>oxygen; skin>pig; skin>poison; skin>pressure; skin>protein; skin>repair; skin>reptile; skin>scar; skin>sheep; skin>skull; skin>sweat; skin>temperature; skin>touch; skin>water; skin>culture; skirt>denim; skirt>fashion; skirt>garment; skirt>jeans; skirt>leather; skirt>leg; skirt>man; skirt>trousers; skirt>t-shirt; skirt>underwear; skirt>waist; skirt>woman; skull>ancestor; skull>animal; skull>bone; skull>brain; skull>elephant; skull>face; skull>head; skull>lion; skull>mammal; skull>mouse; skull>shark; skull>skeleton; sky>agriculture; sky>air; sky>aircraft; sky>astronomy; sky>atmosphere; sky>bat; sky>bird; sky>blue; sky>calendar; sky>city; sky>cloud; sky>down; sky>daylight; sky>earth; sky>flight; sky>fog; sky>green; sky>horizon; sky>human; sky>insect; sky>legend; sky>lightning; sky>moonlight; sky>night; sky>ocean; sky>planet; sky>plant; sky>rain; sky>rainbow; sky>seed; sky>shadow; sky>smog; sky>species; sky>star; sky>storm; sky>sun; sky>sunlight; sky>sunrise; sky>sunset; sky>thunder; sky>thunderstorm; sky>weather; sky>wind; slang>crime; slang>crowd; slang>dialect; slang>jargon; slang>language; slang>musician; slang>sex; slang>violence; slang>word; slang>fight; slap>mobile phone; slap>slang; slap>wrist; slaughter>massacre; slaughter>murder; slave>slavery; slavery>adoption; slavery>culture; slavery>human rights; slavery>property; slavery>tax; sleep>adolescent; sleep>alarm clock; sleep>bed; sleep>consciousness; sleep>dolphin; sleep>immune system; sleep>insomnia; sleep>memory; sleep>narrative; sleep>reasoning; sleep>tobacco; sleeve>arm; sleeve>garment; sleeve>ribbon; sleeve>shoulder; sleeve>wedding; slogan>phrase; slope>curve; slope>geography; slope>road; slot>castle; smile>amusement; smile>animal; smile>anxiety; smile>ball; smile>dishonesty; smile>embarrassment; smile>emotion; smile>fear; smile>frown; smile>happiness; smile>human; smile>laughter; smile>muscle; smile>pleasure; smile>psychology; smog>carbon monoxide; smog>coal; smog>flu; smog>fog; smog>ozone; smog>smoke; smog>aluminium; smoke>cable; smoke>cancer; smoke>candle; smoke>carbon; smoke>carbon dioxide; smoke>carbon monoxide; smoke>cloud; smoke>copper; smoke>death; smoke>dust; smoke>fire; smoke>firefighter; smoke>fireplace; smoke>fuel; smoke>gas; smoke>iron; smoke>lead; smoke>liquid; smoke>lung; smoke>mist; smoke>oil; smoke>plastic; smoke>poison; smoke>smog; smoke>smoking; smoke>toast; smoke>tobacco; smoke>wood; smoker>smoke; smoker>smoking; smoking>carbon monoxide; smoking>cigarette; smoking>jazz; smoking>lighter; smoking>match; smoking>tobacco; snack>attention; snack>cheese; snack>food; snack>fruit; snack>meal; snack>meat; snack>obesity; snack>seed; snack>sugar; snack>vegetable; snack>vitamin; snake>brass; snake>chicken; snake>digestion; snake>dinosaur; snake>evil; snake>feather; snake>jaw; snake>lung; snake>medicine; snake>mouth; snake>protein; snake>skeleton; snake>skull; snake>species; snake>worm; snob>advertising; snob>beauty; snob>education; snob>intellect; snob>nationality; snob>pride; snob>wealth; snow>agriculture; snow>carrot; snow>cloud; snow>concrete; snow>crystal; snow>fall; snow>frost; snow>hail; snow>ice; snow>landscape; snow>light; snow>mountain; snow>photography; snow>pressure; snow>river; snow>salt; snow>ski; snow>skiing; snow>snowboarding; snow>space; snow>spectrum; snow>summer; snow>sunlight; snow>water; snow>wind; snowboard>carbon; snowboard>skateboarding; snowboard>ski; snowboard>snowboarding; snowboarding>skateboarding; snowboarding>skiing; snowboarding>snowboard; snowboarding>surfing; soap opera>abortion; soap opera>adoption; soap opera>episode; soap opera>fantasy; soap opera>magazine; soap opera>murder; soap opera>rape; soap opera>soap; soap opera>theft; soap opera>trilogy; soap opera>twin; soap>advertising; soap>aluminium; soap>dust; soap>hotel; soap>hygiene; soap>sacrifice; soap>sand; soap>silver; soap>toothpaste; soap>water; soap>wire; soap>wool; socialism>agriculture; socialism>authority; socialism>capitalism; socialism>hierarchy; socialism>human rights; socialism>interest; socialism>materialist; socialism>money; socialism>poverty; socialism>rebellion; socialism>republic; socialism>socialist; socialist>socialism; society>agriculture; society>artificial intelligence; society>business; society>capitalism; society>civilization; society>commerce; society>community; society>cooperation; society>culture; society>education; society>geography; society>government; society>hierarchy; society>history; society>industry; society>infrastructure; society>institution; society>investor; society>language; society>leadership; society>organization; society>religion; society>technology; society>trade; society>wealth; sock>boot; sock>cloth; sock>clothing; sock>cotton; sock>foot; sock>glove; sock>linen; sock>shoe; sock>sock; sock>stocking; sock>sweat; sock>wool; soft drink>acid; soft drink>bottle; soft drink>carbon dioxide; soft drink>cola; soft drink>erosion; soft drink>lemonade; soft drink>milk; soft drink>mineral water; soft drink>obesity; soft drink>sugar; soft drink>supermarket; soft drink>tea; soft drink>tea; soft drink>water; soft drink>concept; software>data; software>hard drive; software>information; software>logic; software>programmer; software>spreadsheets; software>television; software>video game; soil>aluminium; soil>atmosphere; soil>bacteria; soil>desert; soil>dirt; soil>drought; soil>earth; soil>erosion; soil>fat; soil>geology; soil>iron; soil>lead; soil>oxygen; soil>salt; soil>sand; soil>solution; soil>virus; soldier>army; soldier>endurance; soldier>police officer; soldier>profession; solicitor>advocate; solicitor>court; solicitor>lawyer; solicitor>salesman; solidarity>tribe; solitude>anxiety; solitude>creativity; solitude>illusion; solitude>loneliness; solitude>pirate; solitude>privacy; solitude>time; solution>air; solution>bronze; solution>carbon dioxide; solution>chemistry; solution>concentration; solution>gold; solution>light; solution>light; solution>mixture; solution>oil; solution>oxygen; solution>pressure; solution>salt; solution>steel; solution>sugar; solution>temperature; solution>water; son>boy; son>daughter; son>family; son>inheritance; son>law; son>male; son>man; son>parent; son>reproduction; son>author; son>choir; son>composer; son>concert; son>music; son>opera; son>orchestra; son>piano; son>poetry; son>radio; son>rhythm; son>song; son>singer; son>singing; son>angel; soul>consciousness; soul>disability; soul>dream; soul>emotion; soul>essence; soul>heart; soul>heaven; soul>hell; soul>intelligence; soul>life; soul>materialism; soul>matter; soul>mind; soul>motivation; soul>paradise; soul>psychologist; soul>psychology; soul>reason; soul>self; soul>self-awareness; soul>sense; soul>spirit; sound>air; sound>atmosphere; sound>bird; sound>communication; sound>density; sound>drum; sound>ear; sound>earth; sound>earthquake; sound>fire; sound>frog; sound>gas; sound>human; sound>liquid; sound>mammal; sound>music; sound>pressure; sound>radio; sound>rain; sound>ratio; sound>sense;



sustainability>food; sustainability>forest; sustainability>fruit; sustainability>global warming; sustainability>industry; sustainability>lake; sustainability>law; sustainability>longevity; sustainability>market; sustainability>material; sustainability>meat; sustainability>obesity; sustainability>ocean; sustainability>oxygen; sustainability>population; sustainability>price; sustainability>recycling; sustainability>river; sustainability>science; sustainability>society; sustainability>sun; sustainability>technology; sustainability>transport; sustainability>war; sustainability>water; sustainability>weather; sustainability>vegetable; sustainability>woodland; swan>animal; swan>bird; swan>duck; swan>extinction; swan>species; sweater>button; sweater>cotton; sweater>ice hockey; sweater>jacket; sweater>shirt; sweater>sleeve; sweater>trousers; sweater>t-shirt; sweater>wool; sweater>youth; sweatshirt>sweater; swimming pool>bacteria; swimming pool>basement; swimming pool>basketball; swimming pool>beach; swimming pool>circle; swimming pool>concrete; swimming pool>department store; swimming pool>disability; swimming pool>disease; swimming pool>diving; swimming pool>fountain; swimming pool>hotel; swimming pool>infant; swimming pool>insect; swimming pool>iron; swimming pool>metal; swimming pool>oxygen; swimming pool>skateboard; swimming pool>skateboard; swimming pool>supermarket; swimming pool>toddler; swimming pool>toy; swimming pool>tv; swimming pool>virus; swimming pool>yard; switch>brass; switch>copper; switch>design; switch>electrician; switch>electronics; switch>glass; switch>metal; switch>plastic; switch>steel; sword>blade; sword>bronze; sword>combat; sword>copper; sword>god; sword>history; sword>iron; sword>literature; sword>martial art; sword>parade; sword>shield; sword>turkey; sword>uniform; symbol>icon; symbol>uniform; syllable>consonant; syllable>language; syllable>poetry; syllable>rhymer; syllable>word; syllable>vowel; syllabus>communication; syllabus>curriculum; syllabus>education; syllabus>exam; syllabus>grammar; syllabus>professor; syllabus>training; symbol>entity; symbol>history; symbol>icon; symbol>idea; symbol>learning; symbol>logo; symbol>punctuation; symbol>uniform; sympathy>empathy; symptom>blindness; symptom>diagnosis; symptom>disease; symptom>patient; symptom>rash; synonym>adjective; synonym>adverb; synonym>noun; synonym>preposition; system>concrete; system>culture; system>economics; system>engineering; system>institution; system>market; system>person; system>physics; system>property; system>reasoning; system>society; system>structure; table tennis>friction; table tennis>gram; table tennis>sport; tablet>notebook; tail>animal; tail>bird; tail>body; tail>cat; tail>deer; tail>dog; tail>emotion; tail>feather; tail>fish; tail>fly; tail>kangaroo; tail>lion; tail>mammal; tail>monkey; tail>nerves; tail>predator; tail>reptile; takeover>bank; takeover>consideration; takeover>loan; takeover>majority; takeover>management; takeover>merger; tale>narrative; talent>celebrity; talk>conversation; talk>interaction; talk>speech; talks>talk; tank>battle; tank>boom; tank>bridge; tank>deception; tanks>electronics; tank>laser; tank>plastic; tank>railway; tank>system; tank>telescope; taste>alcohol; taste>apple; taste>banana; taste>beer; taste>blood; taste>brain; taste>cheese; taste>coffee; taste>evolution; taste>fat; taste>food; taste>fruit; taste>genetics; taste>grape; taste>lemon; taste>meat; taste>medicine; taste>melon; taste>milk; taste>salt; taste>sense; taste>soft drink; taste>sugar; taste>tea; taste>tongue; taste>wine; tax>alcohol; tax>bridge; tax>business; tax>canal; tax>capitalism; tax>currency; tax>democracy; tax>economics; tax>euro; tax>fee; tax>health care; tax>inflation; tax>law; tax>liberty; tax>market; tax>peasant; tax>pension; tax>petrol; tax>politics; tax>price; tax>property; tax>public transport; tax>recession; tax>road; tax>society; tax>tobacco; tax>trade; tax>wealth; tax>welfare; taxpayer>tax; tea>alcohol; tea>aluminium; tea>butter; tea>cancer; tea>coffee; tea>culture; tea>fruit; tea>honey; tea>jam; tea>lemon; tea>mug; tea>mug; tea>obesity; tea>slang; tea>sugar; tea>tree; tea>turkey; tea>water; tea>whisky; tea>virus; tea>vitamin; teacher>allegation; teacher>classroom; teacher>college; teacher>curriculum; teacher>discipline; teacher>education; teacher>engineer; teacher>euro; teacher>goal; teacher>individual; teacher>knowledge; teacher>lawyer; teacher>lecturer; teacher>priest; teacher>primary school; teacher>profession; teacher>professional; teacher>professor; teacher>religion; teacher>retirement; teacher>school; teacher>secondary school; teacher>skill; teacher>student; teacher>tutor; teacher>university; teacher>vow; teaching>education; team>animal; team>business; team>chess; team>community; team>complexity; team>concept; team>crew; team>dog; team>football; team>game; team>horse; team>management; team>partnership; team>peer pressure; team>project; team>sport; team>success; team>system; team>teamwork; teamwork>clothing; teamwork>collaboration; teamwork>health care; teamwork>tea; teaspoon>coffee; teaspoon>cooking; teaspoon>cutlery; teaspoon>ice cream; teaspoon>recipe; teaspoon>spoon; teaspoon>tea; technician>artist; technician>manufacturing; technician>mechanic; technician>presenter; technician>professional; technician>theory; technicians>theory; technicians>tool; technician>training; techniques>skill; technique>technology; techno>capitalism; techno>disc jockey; techno>disco; techno>economy; techno>harmony; techno>hip-hop; techno>paradigm; techno>performance; techno>rhythm; techno>time; technology>agriculture; technology>architecture; technology>brass; technology>bronze; technology>chemistry; technology>clock; technology>clothing; technology>communication; technology>computer; technology>construction; technology>copper; technology>craft; technology>dolphin; technology>earth; technology>economy; technology>electricity; technology>energy; technology>engineering; technology>flight; technology>gold; technology>hierarchy; technology>history; technology>industry; technology>infrastructure; technology>language; technology>lead; technology>leisure; technology>machine; technology>manufacturing; technology>medicine; technology>mining; technology>paradigm; technology>physics; technology>politician; technology>pollution; technology>radio; technology>safety; technology>satellite; technology>science; technology>scientist; technology>silks; technology>silver; technology>society; technology>spoon; technology>steel; technology>system; technology>telephone; technology>television; technology>tool; technology>train; technology>transport; technology>transportation; technology>weapon; technology>wheel; technology>wood; telephone>business; telephone>consumer; telephone>invention; telephone>microphone; telephone>mobile phone; telephone>radio; telephone>sound; telescope>astronomy; telescope>earth; telescope>glass; telescope>ice; telescope>mirror; telescope>radio; telescope>satellite; telescope>trace; telescope>water; telescope>x-ray; television>advertising; television>angle; television>audience; television>copper; television>electronics; television>lead; television>news; television>radio; television>science fiction; television>soap opera; telly>television; temper>archaeology; temper>atmosphere; temper>season; temper>temperature; temper>time; temperature>atom; temperature>biology; temperature>chemistry; temperature>density; temperature>energy; temperature>gas; temperature>geology; temperature>heat; temperature>kilogram; temperature>lightning; temperature>liquid; temperature>physics; temperature>protein; temperature>ratio; temperature>speed; temperature>sun; temperature>thermometer; temperature>x-ray; temple>cathedral; temple>chapel; temple>god; temple>mosque; temple>prayer; temple>sacrifice; temple>turkey; temple>worship; temptation>advertising; temptation>curiosity; temptation>marketing; temptation>persuasion; temptation>religion; temptation>sin; tenderness>affection; tenderness>love; tennis>baseball; tennis>referee; tension>suspense; tent>airport; tent>aluminium; tent>boat; tent>camping; tent>campsite; tent>circus; tent>cotton; tent>earthquake; tent>fire; tent>goat; tent>metal; tent>pole; tent>rubber; tent>sheep; tent>structure; tent>theatre; tent>war; tent>wood; terminal>port; terminal>suffix; terms>term; terrace>river; terrace>stream; terror>terrorism; terrorism>assault; terrorism>consensus; terrorism>crime; terrorism>faith; terrorism>fear; terrorism>fraud; terrorism>hostage; terrorism>human rights; terrorism>law; terrorism>peace; terrorism>poison; terrorism>politics; terrorism>publicity; terrorism>rebellion; terrorism>riot; terrorism>robbery; terrorism>security; terrorism>telecommunications; terrorism>uniform; terrorism>war; terrorism>violence; terrorist>terrorism; test>experiment; text>literature; text>textbook; textbook>evolution; theatre>actor; theatre>audience; theatre>ballet; theatre>collaboration; theatre>composer; theatre>culture; theatre>dance; theatre>dialogue; theatre>drama; theatre>fiction; theatre>humour; theatre>institution; theatre>literature; theatre>music; theatre>opera; theatre>performance; theatre>poetry; theatre>song; theatre>tragedy; theatre>wine; theft>bicycle; theft>blackmail; theft>burglary; theft>consent; theft>crime; theft>dishonesty; theft>fraud; theft>jail; theft>money; theft>property; theft>robbery; theft>synonym; theme>principle; theory>analysis; theory>architecture; theory>art; theory>astronomy; theory>biology; theory>chemistry; theory>climate change; theory>disease; theory>economics; theory>education; theory>engineering; theory>evidence; theory>evolution; theory>experiment; theory>explanation; theory>fact; theory>film; theory>geology; theory>global warming; theory>hypothesis; theory>idea; theory>literature; theory>logic; theory>music; theory>nature; theory>observation; theory>philosophy; theory>physics; theory>politics; theory>prediction; theory>probability; theory>psychology; theory>reason; theory>science; theory>statistics; theory>technology; theory>truth; theory>understanding; therapy>coaching; therapy>cold; therapy>cure; therapy>drug; therapy>education; therapy>electricity; therapy>energy; therapy>exercise; therapy>food; therapy>gene; therapy>gold; therapy>heat; therapy>junk food; therapy>light; therapy>matter; therapy>medication; therapy>medicine; therapy>ozone; therapy>radiation; therapy>reading; therapy>risk; therapy>salt; therapy>side effect; therapy>sleep; therapy>smell; therapy>sound; therapy>temperature; therapy>vaccine; therapy>water; therapy>virus; thermometer>aircraft; thermometer>atmosphere; thermometer>fever; thermometer>health care; thermometer>heater; thermometer>temperature; thesis>bed; thesis>essay; thesis>intellectual; thesis>professor; thesis>proposition; thesis>research; thesis>university; thief>thief; thigh>blood; thigh>bone; thigh>hip; thigh>knee; thigh>muscle; thigh>nerve; thinker>intellectual; thirst>brain; thirst>instinct; thought>artificial intelligence; thought>attention; thought>consciousness; thought>goal; thought>human; thought>idea; thought>imagination; thought>individual; thought>mind; thought>philosophy; thought>psychology; thought>reasoning; thought>religion; thought>science; thought>sense; thought>society; thought>symptom; thought>perception; threshold>sense; throat>neck; throne>angel; throne>cathedral; throne>emperor; throne>god; throne>music; throne>palace; throne>pie; throne>privilege; throne>religion; throne>slang; throne>temple; throne>toilet; thumb>ankle; thumb>bird; thumb>finger; thumb>foot; thumb>hand; thumb>tool; thumb>tool; thumb>walk; thunder>aircraft; thunder>explosion; thunder>inquiry; thunder>light; thunder>lightning; thunder>pressure; thunder>sound; thunder>temperature; thunder>thunderstorm; thunder>thursday; thunderstorm>air; thunderstorm>carbon dioxide; thunderstorm>cloud; thunderstorm>dust; thunderstorm>energy; thunderstorm>fall; thunderstorm>god; thunderstorm>hail; thunderstorm>lightning; thunderstorm>rain; thunderstorm>rainforest; thunderstorm>soil; thunderstorm>storm; thunderstorm>summer; thunderstorm>thunder; thunderstorm>tornado; thunderstorm>weather; thunderstorm>wind; thursday>calendar; thursday>earth; thursday>friday; thursday>green; thursday>heaven; thursday>saint; thursday>wednesday; tick>animal; tick>blood; tick>mosquito; tick>toddler; tick>virus; tide>adaptation; tide>average; tide>coast; tide>global warming; tide>sun; tide>weather; tiger>animal; tiger>bird; tiger>camel; tiger>cattle; tiger>climate change; tiger>crocodile; tiger>dna; tiger>dog; tiger>dolphin; tiger>donkey; tiger>elephant; tiger>extinction; tiger>female; tiger>fish; tiger>flag; tiger>fox; tiger>gene; tiger>habitat; tiger>honey; tiger>horse; tiger>lake; tiger>leopard; tiger>lion; tiger>male; tiger>mammal; tiger>mammal; tiger>monkey; tiger>novel; tiger>polar bear; tiger>pond; tiger>prey; tiger>pup; tiger>reproduction; tiger>river; tiger>scientist; tiger>snake; tiger>turkey; tiger>water; tiger>west; tiger>whale; tights>ballet; tights>basketball; tights>cloth; tights>costume; tights>cotton; tights>dance; tights>garment; tights>infant; tights>leg; tights>pants; tights>shorts; tights>silks; tights>toddler; tights>uniform; tights>waist; tights>wool; time>astronomy; time>awareness; time>calendar; time>century; time>chart; time>clock; time>day; time>decade; time>dimension; time>documentary; time>earth; time>economics; time>education; time>fiction; time>fortnight; time>future; time>generation; time>god; time>history; time>hour; time>industry; time>law; time>light; time>machine; time>measurement; time>millennium; time>minute; time>month; time>music; time>noon; time>number; time>perception; time>phenomenon; time>philosophy; time>plan; time>present; time>quantity; time>religion; time>result; time>sand; time>season; time>second; time>sequence; time>society; time>space; time>technology; time>television; time>theatre; time>transport; time>watch; time>week; time>year; timetable>calendar; timing>time; tin>acid; tin>air; tin>bronze; tin>carbon; tin>copper; tin>crystal; tin>diamond; tin>earth; tin>glass; tin>gold; tin>iron; tin>kilogram; tin>lead; tin>metal; tin>oxygen; tin>sun; tin>trade; tin>water; tip>x-ray; title>adjective; title>advocate; title>ambassador; title>aunt; title>brother; title>chancellor; title>citizen; title>commander; title>count; title>county; title>delegate; title>emperor; title>empire; title>female; title>gentleman; title>judge; title>king; title>lady; title>leadership; title>magistrate; title>male; title>mayor; title>miss; title>mother; title>mr; title>nurse; title>official; title>police officer; title>president; title>priest; title>prince; title>princess; title>professor; title>realm; title>saint; title>secretary; title>sir; title>sister; title>solicitor; title>uncle; title>unle; title>bread; toast>breakfast; toast>butter; toast>fireplace; toast>food; toast>fork; toast>heat; toast>jam; toast>oven; tobacco>cancer; tobacco>capitalism; tobacco>cigarette; tobacco>disaster; tobacco>drug; tobacco>evolution; tobacco>gardening; tobacco>genetics; tobacco>hall; tobacco>harvest; tobacco>heart; tobacco>heaven; tobacco>herb; tobacco>honey; tobacco>insect; tobacco>liver; tobacco>seed; tobacco>stroke; tobacco>tea; tobacco>turkey; tobacco>wasp; today>present; toddler>adjective; toddler>ball; toddler>book; toddler>chair; toddler>childhood; toddler>doll; toddler>furniture; toddler>noun; toddler>noun; toddler>spoon; toddler>song; toddler>telephone; toddler>vocabulary; toddler>ward; toe>animal; toe>cat; toe>finger; toe>foot; toe>hand; toe>human; toe>joint; toe>walking; toilet>bullet; toilet>castle; toilet>dialect; toilet>emergency; toilet>pottery; toilet>sink; toilet>train; toilet>video game; toilet>wilderness; tomato>acid; tomato>banana; tomato>berry; tomato>commerce; tomato>cucumber; tomato>dessert; tomato>drink; tomato>festival; tomato>flower; tomato>fruit; tomato>garlic; tomato>genetics; tomato>leaf; tomato>main course; tomato>melon; tomato>pasta; tomato>pizza; tomato>potato; tomato>salad; tomato>soup; tomato>tobacco; tomato>vegetable; tomb>burial; tomb>cemetery; tomb>saint; ton>cricket; ton>energy; ton>slang; ton>steel; ton>water; ton>volume; tone>note; tongue>butterfly; tongue>cat; tongue>cod; tongue>duck; tongue>food; tongue>frog; tongue>human; tongue>language; tongue>memory; tongue>mouth; tongue>nerve; tongue>phenomenon; tongue>recollection; tongue>taste; tools>agriculture; tools>animal; tools>archaeology; tools>bird; tools>clock; tools>computer; tools>elephant; tools>glasses; tools>glove; tools>goal; tools>hammer; tools>human; tools>knife; tools>lighter; tools>matter; tools>monkey; tools>phone; tools>rocket; tools>ruler; tools>spreadsheet; tools>technology; tools>truck; tools>animal; tools>dolphin; tools>elephant; tools>fish; tools>food; tools>horse; tools>jaw; tools>mammal; tools>mouth; tools>rabbit; tools>reptile; tools>shark; tools>snake; tools>whale; toothache>pain; toothache>temperature; toothache>tooth; toothache>x-ray; toothbrush>bacteria; toothbrush>bone; toothbrush>dentist; toothbrush>feather; toothbrush>salt; toothbrush>tooth; toothbrush>toothpaste; toothbrush>water; toothpaste>food; toothpaste>lead; toothpaste>lemon; toothpaste>pine; toothpaste>toothbrush; toothpaste>whisky; top>archaeology; top>dice; top>gambling; top>iron; top>plastic; top>rope; top>toy; top>wood; torch>castle; torch>death; torch>hope; torch>love; torch>wood; tornado>air; tornado>camera; tornado>climate; tornado>cloud; tornado>dust; tornado>global warming; tornado>temperature; tornado>thunderstorm; tornado>wind; torture>civilian; torture>famine; torture>gang; torture>hell; torture>hostage; torture>human rights; torture>injury; torture>jury; torture>justice; torture>medication;

torture-murder; torture-murderer; torture-pain; torture-punishment; torture-rape; torture-rebellion; torture-refugee; torture-revenge; torture-slave; torture-suffering; torture-terrorist; torture-war; toughness-energy; toughness-resilience; tour-tourism; tourism-airline; tourism-airport; tourism-business; tourism-carbon footprint; tourism-culture; tourism-employment; tourism-export; tourism-hotel; tourism-itinerary; tourism-leisure; tourism-recreation; tourism-resort; tourism-terrorist; tourism-theatre; tourism-transport; tourism-travel; tourism-turkey; tourist-tourism; tournament-board game; tournament-chess; tournament-competition; tournament-debate; tournament-film; tournament-game; tournament-sport; tournament-tennis; towel-barber; towel-beach; towel-blanket; towel-boxing; towel-cloth; towel-dress; towel-garment; towel-hygiene; towel-paper; towel-radio; towel-skirt; towel-smoke; towel-television; towel-turkey; tower-chimney; tower-height; tower-tower; town-agriculture; town-cathedral; town-city; town-commerce; town-county; town-factory; town-fair; town-house; town-mining; town-music; town-police; town-suburb; town-turkey; town-village; toy-advertising; toy-aircraft; toy-animal; toy-apple; toy-auction; toy-baby; toy-ball; toy-board game; toy-bone; toy-book; toy-car; toy-castle; toy-child; toy-cloth; toy-creativity; toy-dice; toy-doll; toy-dolphin; toy-exercise; toy-farm; toy-film; toy-game; toy-gift; toy-girl; toy-globalization; toy-grass; toy-hand; toy-house; toy-human; toy-industry; toy-infant; toy-innovation; toy-inquiry; toy-injury; toy-monkey; toy-museum; toy-pattern; toy-pet; toy-plastic; toy-problem; toy-puzzle; toy-science fiction; toy-sport; toy-tank; toy-television; toy-tomb; toy-top; toy-whistle; toy-video game; toy-wood; trace-trail; track-song; track-trail; tracksuit-clothing; tracksuit-jacket; tracksuit-shirt; tracksuit-shorts; tracksuit-sport; tracksuit-sweater; tracksuit-trousers; tractor-agriculture; tractor-brake; tractor-clutch; tractor-construction; tractor-crop; tractor-engine; tractor-farm; tractor-farmer; tractor-farming; tractor-garden; tractor-grass; tractor-hazard; tractor-machine; tractor-railway; tractor-repair; tractor-truck; tractor-vehicle; trade-bronze; trade-business; trade-buyer; trade-civilization; trade-commerce; trade-commodity; trade-currency; trade-demand; trade-department store; trade-earnings; trade-economics; trade-export; trade-globalization; trade-gold; trade-industrialization; trade-mail; trade-market; trade-money; trade-monopoly; trade-ownership; trade-price; trade-retail; trade-retailer; trade-silver; trade-spice; trade-subsidy; trade-tin; tradition-adjective; tradition-archaeology; tradition-belief; tradition-biology; tradition-creativity; tradition-generation; tradition-globalization; tradition-hierarchy; tradition-inheritance; tradition-myth; tradition-picnic; tradition-psychology; tradition-rhyme; traffic light-lorry; traffic light-public transport; traffic light-roundabout; traffic-animal; traffic-bicycle; traffic-bus; traffic-lane; traffic-law; traffic-parking; traffic-pedestrian; traffic-roundabout; traffic-rush hour; traffic-rush jam; traffic-traffic light; traffic-vehicle; tragedy-composer; tragedy-culture; tragedy-dance; tragedy-definition; tragedy-destiny; tragedy-dignity; tragedy-drama; tragedy-ellie; tragedy-fear; tragedy-goat; tragedy-god; tragedy-law; tragedy-luck; tragedy-male; tragedy-narrative; tragedy-opera; tragedy-paradox; tragedy-person; tragedy-pity; tragedy-poetry; tragedy-reversal; tragedy-ritual; tragedy-society; tragedy-structure; tragedy-suffering; trail-autumn; trail-bridge; trail-climbing; trail-cycling; trail-erosion; trail-horse; trail-lane; trail-road; trail-running; trail-ski; trail-snow; trail-soldier; trail-wheelchair; trail-woodland; train-airport; train-bicycle; train-cargo; train-coal; train-food; train-machine; train-money; train-passenger; train-praise; train-public transport; train-redevelopment; train-ship; train-tram; train-truck; train-vehicle; train-wheel; train-wheelchair; trainee-college; trainee-university; training-artificial intelligence; training-capacity; training-career; training-college; training-combat; training-education; training-employment; training-feedback; training-god; training-knowledge; training-learning; training-profession; training-religion; training-ritual; training-robot; training-school; training-tool; training-war; train-bus; tram-cable; tram-cargo; tram-infrastructure; tram-noise; tram-specification; tram-spy; tram-wheelchair; translation-accuracy; translation-actor; translation-adaptation; translation-ambiguity; translation-artist; translation-business; translation-chemistry; translation-communication; translation-concept; translation-culture; translation-devil; translation-dictionary; translation-film; translation-grammar; translation-idiom; translation-language; translation-literature; translation-music; translation-musician; translation-novel; translation-novelist; translation-opera; translation-perfection; translation-physics; translation-poet; translation-poetry; translation-rhyme; translation-science; translation-technology; translation-theatre; translation-vocabulary; translation-word; translation-writing; transport-action; transport-airport; transport-beer; transport-boat; transport-bridge; transport-bus; transport-bus station; transport-cable; transport-canal; transport-carbon dioxide; transport-cargo; transport-cattle; transport-city; transport-coal; transport-concrete; transport-construction; transport-debt; transport-dirt; transport-education; transport-electronics; transport-escalator; transport-fashion; transport-ferry; transport-global warming; transport-globalization; transport-government; transport-helicopter; transport-horse; transport-human; transport-infrastructure; transport-lake; transport-landing; transport-leisure; transport-machine; transport-ocean; transport-passenger; transport-pedestrian; transport-pressure; transport-public transport; transport-railway; transport-recreation; transport-risk; transport-river; transport-road; transport-rocket; transport-roundabout; transport-running; transport-sea; transport-ship; transport-skiing; transport-smog; transport-soil; transport-steam; transport-steel; transport-street; transport-tax; transport-team; transport-technology; transport-tourism; transport-trade; transport-trail; transport-train; transport-tram; transport-truck; transport-walking; transport-warehouse; transport-water; transport-vehicle; transport-wheel; transport-village; transport-wind; transport-wood; transportation-transport; trash-junk food; trash-litter; trash-waste; travel-bicycle; travel-bus; travel-culture; travel-cycling; travel-exploration; travel-holiday; travel-itinerary; travel-passport; travel-pedestrian; travel-people; travel-public transport; travel-recreation; travel-refugee; travel-research; travel-safety; travel-tourism; travel-trade; travel-train; travel-transport; travel-walking; travel-van; travel-vehicle; travel-rectangle; travel-rectangle; treasure-motivation; treasure-pirate; treasure-protagonist; treasure-war; treat-threat; treat-treaty; treatment-therapy; treaty-constitution; treaty-contract; treaty-signature; treaty-slavery; treaty-torture; tree-apple; tree-banana; tree-barbecue; tree-bark; tree-carbon; tree-carbon dioxide; tree-chocolate; tree-construction; tree-drought; tree-forest; tree-fruit; tree-fuel; tree-god; tree-habitat; tree-paper; tree-pine; tree-plant; tree-rainforest; tree-species; tree-tea; tree-wood; tree-woodland; trek-trekking; trekking-transport; trekking-walking; trend-business; trend-culture; trend-fashion; trend-population; trend-technology; trial-appeal; trial-authority; trial-court; trial-crime; trial-government; trial-innocence; trial-judge; trial-jury; trial-law; trial-prosecution; triangle-angle; triangle-architect; triangle-astronomy; triangle-circle; triangle-construction; triangle-dimension; triangle-earthquake; triangle-nature; triangle-rectangle; triangle-shape; triangle-sphere; tribes-archaeology; tribes-civilization; tribes-leadership; tribes-nation; tribes-civilization; tribes-hostage; tribute-philosophy; tribute-province; tribute-subsidy; tribute-war; trilogy-fantasy; trilogy-fiction; trilogy-literature; trilogy-novel; trilogy-science fiction; trilogy-video game; trip-injury; trip-tourism; trip-travel; trophy-animal; trophy-boxing; trophy-hunting; trophy-medal; trophy-silver; trophy-television; trouble-challenge; trouble-risk; trousers-baseball; trousers-calf; trousers-clothing; trousers-cotton; trousers-denim; trousers-dress; trousers-fashion; trousers-hat; trousers-hip; trousers-history; trousers-jeans; trousers-shirt; trousers-shorts; trousers-skateboarding; trousers-skirt; trousers-underpants; trousers-underwear; trousers-waist; truck-carbon dioxide; truck-cargo; truck-engine; truck-global warming; truck-steel; truck-ton; truck-water; truck-wheel; trumpet-army; trumpet-brass; trumpet-harmony; trumpet-orchestra; trumpet-rectangle; truth-belief; truth-concept; truth-contradiction; truth-debate; truth-disposition; truth-envy; truth-essence; truth-existence; truth-fact; truth-gender; truth-god; truth-imagination; truth-information; truth-inquiry; truth-intelligence; truth-judgment; truth-knowledge; truth-law; truth-lie; truth-logic; truth-mirror; truth-philosophy; truth-proposition; truth-reality; truth-reason; truth-religion; truth-science; truth-sense; truth-time; truth-understanding; t-shirt-advertising; t-shirt-black; t-shirt-clothing; t-shirt-ink; t-shirt-ironing; t-shirt-laundry; t-shirt-marketing; t-shirt-shirt; t-shirt-shirt; t-shirt-souvenir; t-shirt-vest; tube-surfing; tube-television; tuesday-election; tuesday-monday; tuesday-pink; tuesday-saint; tuesday-wednesday; tuna-dolphin; tuna-extinction; tuna-oil; tuna-predator; tuna-protein; tuna-shark; tuna-species; tuna-whale; tune-melody; tunnel-canal; tunnel-carbon monoxide; tunnel-coal; tunnel-firefighter; tunnel-flood; tunnel-mining; tunnel-road; tunnel-tool; tunnel-traffic; tunnel-turkey; tunnel-weapon; turkey-democracy; turkey-helicopter; turkey-recession; turkey-republic; turkey-tank; turkey-volcano; turn-turning; turnover-revenue; tutor-classroom; tutor-education; tutor-lecturer; tutor-professional; tutor-secondary school; tutor-seminar; tutor-student; tutor-teaching; tv-television; twin-brain; twin-cat; twin-cattle; twin-deer; twin-dog; twin-genetics; twin-god; twin-joy; twin-lovers; twin-pregnancy; twin-psychology; twin-sheep; twin-sibling; umbrella-cotton; umbrella-priest; umbrella-procession; umbrella-slang; umbrella-steel; umbrella-storm; umbrella-temple; umbrella-tent; uncertainty-certainty; uncertainty-economics; uncertainty-engineering; uncertainty-error; uncertainty-finance; uncertainty-gambling; uncertainty-gate; uncertainty-insurance; uncertainty-philosophy; uncertainty-physics; uncertainty-probability; uncertainty-psychology; uncertainty-risk; uncertainty-statistics; uncertainty-weather forecast; uncle-aunt; uncle-brother; uncle-brother-in-law; uncle-family; uncle-parent; underpants-brand; underpants-button; understanding-anxiety; understanding-awareness; understanding-concept; understanding-idea; understanding-electronics; understanding-engineering; understanding-explanation; understanding-knowledge; understanding-language; understanding-message; understanding-perception; understanding-person; understanding-prediction; understanding-psychiatrist; understanding-science fiction; understanding-thought; undertaking-company; unemployment-debt; unemployment-disability; unemployment-globalization; unemployment-homelessness; unemployment-inflation; unemployment-percentage; unemployment-productivity; unemployment-recession; unemployment-self-esteem; unemployment-training; unemployment-xenophobia; uniform-air force; uniform-airline; uniform-bank; uniform-brand; uniform-clothing; uniform-employer; uniform-health care; uniform-hotel; uniform-organization; uniform-police; uniform-post office; uniform-prison; uniform-restaurant; uniform-retailer; uniform-school; uniform-shirt; uniform-skirt; uniform-trousers; uniform-truck; uniform-alliance; unit-apartment; unit-statistics; university-astronomy; university-engineering; university-grammar; university-laboratory; university-logic; university-music; university-religion; university-research; university-science; university-seminar; unrest-rebellion; unrest-riot; upgrade-software; usage-grammar; usage-language; user-consumer; vaccination-bacteria; vaccination-cancer; vaccination-cow; vaccination-immune system; vaccination-infection; vaccination-protein; vaccination-vaccine; vaccination-virus; vaccine-antibiotic; vaccine-dna; vaccine-human; vaccine-immune system; vaccine-infection; vaccine-liberty; vaccine-obsession; vaccine-protein; wage-employee; wage-employer; wage-employment; wage-salary; waist-beauty; waist-fashion; waist-fat; waist-hip; waist-jewellery; waist-medical; waist-rib; validity-argument; validity-contradiction; validity-logic; walk-walking; walker-pedestrian; walking-anxiety; walking-bone; walking-cancer; walking-concentration; walking-cycling; walking-endurance; walking-exercise; walking-hand; walking-health; walking-hobby; walking-human; walking-knee; walking-learning; walking-memory; walking-nature; walking-obesity; walking-pedestrian; walking-public transport; walking-robot; walking-running; walking-sheep; walking-stroke; walking-trail; walking-transport; wall-air; wall-architecture; wall-ceiling; wall-city; wall-fence; wallet-cash; wallet-copper; wallet-credit card; wallet-denim; wallet-exercise; wallet-fabric; wallet-handbag; wallet-hotel; wallet-id card; wallet-itinerary; wallet-leather; wallet-paper; wallet-passport; wallet-pocket; wallet-shoe; wallet-travel; valley-agriculture; valley-castle; valley-cliff; valley-climate; valley-earth; valley-erosion; valley-flood; valley-geography; valley-geology; valley-river; valley-stream; valley-sunlight; valley-temperature; valleys-waterfall; van-airport; van-ambulance; van-car; van-hotel; van-parking; van-truck; van-vehicle; vandalism-abuse; vandalism-beauty; vandalism-crime; vandalism-criminal; vandalism-culture; vandalism-gang; vandalism-history; vandalism-imprisonment; vandalism-life; vandalism-mayor; vandalism-monument; vandalism-punishment; vandalism-riot; vanity-god; vanity-image; vanity-justice; vanity-pride; vanity-selfishness; vanity-woman; war-ant; war-common sense; war-deception; war-democracy; war-failure; war-famine; war-inheritance; war-market; war-peace; war-revenge; war-society; war-treaty; war-violence; ward-hospital; wardrobe-castle; wardrobe-chest of drawers; wardrobe-clothes; wardrobe-cupboard; wardrobe-oak; wardrobe-palace; wardrobe-tray; warehouse-airport; warehouse-computer; warehouse-customs; warehouse-database; warehouse-manufacturer; warehouse-preservation; warehouse-railway; warehouse-transport; warmth-heat; warrior-combat; warrior-courage; warrior-faith; warrior-honour; warrior-loyalty; warrior-mercy; warrior-rebellion; warrior-soldier; warrior-terrorist; warrior-tribe; warrior-war; warrior-virtue; vase-flower; washing machine-bacteria; washing machine-carbon dioxide; washing machine-clothing; washing machine-clutch; washing machine-housewife; washing machine-inventor; washing machine-ironing; washing machine-laundry; washing machine-machine; washing machine-pillow; washing machine-pump; washing machine-swimming pool; washing machine-water; wasp-animal; wasp-ant; wasp-bee; wasp-butterfly; wasp-genetics; wasp-hair; wasp-head; wasp-hierarchy; wasp-honey; wasp-insect; wasp-sex; wasp-species; wasp-spider; waste-air; waste-awareness; waste-education; waste-litter; waste-material; waste-pollution; waste-recycling; waste-soil; waste-sustainability; waste-university; waste-water; watch-alarm; watch-art; watch-clock; watch-computer; watch-department store; watch-digital camera; watch-gold; watch-temperature; watch-time; watch-video game; water-acid; water-agriculture; water-atmosphere; water-atom; water-bacteria; water-biology; water-body; water-canal; water-carbon dioxide; water-climate; water-cloud; water-commerce; water-cooking; water-day; water-desert; water-density; water-diving; water-dna; water-dolphin; water-drought; water-earth; water-energy; water-erosion; water-fire; water-fish; water-flood; water-fog; water-fountain; water-fuel; water-gas; water-gram; water-hail; water-household; water-human; water-hygiene; water-ice; water-ice hockey; water-ice skating; water-iceberg; water-industry; water-kilogram; water-kitchen; water-lake; water-life; water-liquid; water-litre; water-mineral water; water-mist; water-mountain; water-oil; water-oxygen; water-ozone; water-plant; water-politics; water-pollution; water-pond; water-pregnancy; water-protein; water-pump; water-rain; water-rainbow; water-river; water-sea; water-shower; water-sink; water-skiing; water-snow; water-snowboarding; water-soil; water-solution; water-steam; water-stream; water-sugar; water-sun; water-sunlight; water-surfing; water-sweat; water-tide; water-toilet; water-travel; water-valley; water-vegetation; water-whale; water-volcano; waterfall-iceberg; waterfall-iceberg; waterfall-volcano; wave-distance; wave-energy; wave-light; wave-momentum; wave-phenomenon; wave-physics; wave-sound; wave-violin; wave>x-ray; way-road; weakness-acid; weakness-brain; weakness-nerve; weakness-nerve; weakness-agriculture; wealth-archaeology; wealth-asset; wealth-building; wealth-business; wealth-castle; wealth-cathedral; wealth-clothing; wealth-economics; wealth-human; wealth-income; wealth-industrialization; wealth-inheritance; wealth-investment; wealth-leadership; wealth-money; wealth-ownership; wealth-pension; wealth-poverty; wealth-property; wealth-resource; wealth-soil; wealth-temple; wealth-war; wealth-word; weapon-aircraft; weapon-bracelet; weapon-copper; weapon-crime; weapon-gun; weapon-helicopter; weapon-horse; weapon-hunting; weapon-knife; weapon-missile; weapon-rocket; weapon-sail; weapon-ship; weapon-sword; weapon-tank; weapon>atmosphere;

weather>building; weather>chemical; weather>climate; weather>climate change; weather>earth; weather>erosion; weather>famine; weather>flood; weather>fog; weather>hail; weather>heat; weather>ice; weather>lake; weather>plant; weather>potential; weather>snow; weather>storm; weather>sun; weather>sunlight; weather>thunderstorm; weather>tornado; web page>database; web page>image; web page>website; web page>video; webcam>computer; webcam>daycare; webcam>laptop; webcam>laptop; webcam>manufacturing; webcam>microphone; webcam>password; webcam>prison; webcam>time; webcam>web page; webcam>video clip; website>blog; website>celebrity; website>computer; website>credit card; website>database; website>document; website>email; website>government; website>image; website>social networking; website>software; website>stock market; website>web page; website>webcam; wedding>bride; wedding>ceremony; wedding>culture; wedding>divorce; wedding>god; wedding>groom; wedding>judge; wedding>marriage; wedding>mayor; wedding>mosque; wedding>priest; wedding>ritual; wedding>sibling; wedding>veil; wednesday>calendar; wednesday>fish; wednesday>meat; wednesday>slang; wednesday>sun; wednesday>thursday; wednesday>tuesday; weed>adaptation; weed>agriculture; weed>crop; weed>garden; weed>grain; weed>insect; weed>lawn; weed>park; weed>plant; weed>soil; weed>february; weed>fortnight; week>month; weekday>friday; weekday>monday; weekday>thursday; weekday>timetable; weekday>tuesday; weekday>wednesday; weekday>week; weekday>weekend; vegetable>acid; vegetable>adjective; vegetable>broccoli; vegetable>bulb; vegetable>cabbage; vegetable>carrot; vegetable>cereal; vegetable>cooking; vegetable>corn; vegetable>courgette; vegetable>cucumber; vegetable>dessert; vegetable>fat; vegetable>fruit; vegetable>garlic; vegetable>leek; vegetable>lettuce; vegetable>market; vegetable>meal; vegetable>mushroom; vegetable>nutrition; vegetable>onion; vegetable>peach; vegetable>potato; vegetable>protein; vegetable>purple; vegetable>salt; vegetable>spinach; vegetable>street; vegetable>supermarket; vegetable>tomato; vegetable>vitamin; vegetation>desert; vegetation>fire; vegetation>flood; vegetation>hierarchy; vegetation>system; vehicle>aircraft; vehicle>bicycle; vehicle>boat; vehicle>brake; vehicle>bus; vehicle>camel; vehicle>friction; vehicle>fuel; vehicle>machine; vehicle>parachute; vehicle>ship; vehicle>train; vehicle>truck; weight>chemistry; weight>ear; weight>fluid; weight>force; weight>kilogram; weight>matter; weight>momentum; weight>sun; veil>bride; veil>curtain; veil>face; veil>funeral; veil>mask; veil>priest; veil>walk; veil>temple; veil>turkey; vein>blood; vein>carbon dioxide; vein>heart; vein>laser; vein>lung; vein>oxygen; welfare>debt; welfare>disability; welfare>disaster; welfare>famine; welfare>household; welfare>illness; welfare>income; welfare>inmate; welfare>pension; welfare>orphan; welfare>population; welfare>poverty; welfare>salary; welfare>solidarity; welfare>tax; welfare>unemployment; welfare>veteran; welfare>widow; well-being>economics; well-being>wealth; velvet>cotton; velvet>linen; velvet>silks; velvet>wool; verb>adverb; verb>clause; verb>grammar; verb>infinitive; verb>language; verb>phrasal verb; verb>word; verdict>appeal; verdict>judgment; verdict>jury; verdict>law; verb>poetry; verb>subjective; west>adverb; west>death; west>earth; west>east; west>geography; west>hunting; west>liberty; west>north; west>noun; west>south; west>sun; west>water; vet>veteran; veteran>crisis; veteran>holiday; whale>animal; whale>dolphin; whale>bacteria; wheat>beer; wheat>biscuit; wheat>bread; wheat>butterfly; wheat>cake; wheat>cereal; wheat>cookie; wheat>disease; wheat>fat; wheat>flour; wheat>immune system; wheat>iron; wheat>pancake; wheat>pasta; wheat>pastry; wheat>pie; wheat>protein; wheat>rice; wheat>tractor; wheat>turkey; wheat>vitamin; wheel>aircraft; wheel>bicycle; wheel>cattle; wheel>energy; wheel>friction; wheel>horse; wheel>iron; wheel>kilogram; wheel>metre; wheel>spoke; wheel>steering wheel; wheel>technology; wheel>tool; wheel>torture; wheel>transport; wheel>truck; wheel>walk; wheel>wire; wheel>wood; wheelchair>artificial intelligence; wheelchair>bicycle; wheelchair>bus; wheelchair>chair; wheelchair>computer; wheelchair>disability; wheelchair>illness; wheelchair>revenue; wheelchair>switch; wheelchair>toilet; wheelchair>tram; wheelchair>walking; wheelchair>alcohol; whisky>alcohol; whisky>coconut; whisky>corn; whisky>grain; whisky>linen; whisky>sand; whisky>wheat; whistle>basketball; whistle>dj; whistle>headache; whistle>ice hockey; whistle>jazz; whistle>police; whistle>rhythm; whistle>train; white>angel; white>autism; white>black; white>cloud; white>coldness; white>cotton; white>cup; white>density; white>earth; white>frost; white>heat; white>heaven; white>ice; white>innocence; white>life; white>light; white>milk; white>peace; white>polar bear; white>racist; white>science; white>snow; white>sun; white>sunlight; white>swan; white>tiger; white>toothpaste; white>winter; white>virtue; vice>alcohol; vice>anger; vice>deputy; vice>envy; vice>faith; vice>gambling; vice>hated; vice>hope; vice>jealousy; vice>laziness; vice>pride; vice>sin; vice>vanity; vice>virtue; victory>aggression; victory>competition; victory>hero; victory>monster; victory>trophy; victory>war; video clip>advertising; video clip>blog; video clip>celebrity; video clip>digital camera; video clip>icon; video clip>mobile phone; video clip>television; video clip>webcam; video clip>website; video clip>video; video game>artificial intelligence; video game>distracted; video game>mud; video game>sex; video game>video; video>dvd; video>image; video>recording; video>technology; video>television; video>virtual reality; widow>marriage; widow>orphan; width>length; view>opinion; wife>bride; wife>crime; wife>divorce; wife>education; wife>female; wife>husband; wife>marriage; wife>mother; wife>mrs; wife>profession; wife>sin; wife>spouse; wife>surname; wife>wedding; wife>widow; wife>woman; wilderness>camping; wilderness>climate change; wilderness>commerce; wilderness>earth; wilderness>forest; wilderness>genetics; wilderness>geology; wilderness>global warming; wilderness>human; wilderness>hunting; wilderness>industrialization; wilderness>laboratory; wilderness>law; wilderness>mountain; wilderness>nature; wilderness>privilege; wilderness>recreation; wilderness>science; wilderness>species; wilderness>summer; wilderness>technology; wilderness>zoo; wildlife>eagle; wildlife>ecology; wildlife>education; wildlife>extinction; wildlife>feather; wildlife>fishing; wildlife>habitat; wildlife>nature; wildlife>rabbit; wildlife>recreation; wildlife>recreation; wildlife>tiger; wildlife>traffic; village>cathedral; village>city; village>community; village>election; village>elite; village>farmer; village>god; village>island; village>market; village>mayor; village>mosque; village>neighbourhood; village>rice; village>sheep; village>starvation; village>suburb; village>town; village>newspaper; willingness>will; willpower>self-control; willpower>self-discipline; wind>virtue; wind>aircraft; wind>cattle; wind>civilization; wind>coast; wind>cold; wind>desert; wind>dust; wind>east; wind>electricity; wind>erosion; wind>fat; wind>feather; wind>friction; wind>history; wind>human; wind>insect; wind>island; wind>kite; wind>landscape; wind>mountain; wind>ocean; wind>penguin; wind>predator; wind>recreation; wind>runway; wind>sail; wind>sailing; wind>sheep; wind>soil; wind>speed; wind>storm; wind>sun; wind>temperature; wind>thunderstorm; wind>tornado; wind>transport; wind>water; wind>weather; wind>weed; wind>west; wind>windsurfing; wind>winter; wind>world; wind>aircraft; wind>bus; window>curtain; window>door; window>fire; window>lead; window>paper; window>radiation; window>roof; window>steel; window>wall; window>vehicle; window>wood; windsurfing>helmet; windsurfing>kite; windsurfing>sail; windsurfing>snowboarding; windsurfing>surfing; wine>acid; wine>archaeologist; wine>beer; wine>cancer; wine>carbon dioxide; wine>carbon footprint; wine>cucumber; wine>dentist; wine>grape; wine>gardener; wine>grape; wine>grape; wine>litre; wine>oak; wine>plant; wine>plastic; wine>poetry; wine>rice; wine>rose; wine>species; wine>spice; wine>sugar; wine>sweet; wine>wall; wine>vine; vinegar>acid; vinegar>apple; vinegar>beer; vinegar>cabbage; vinegar>champagne; vinegar>cholesterol; vinegar>dessert; vinegar>fever; vinegar>garlic; vinegar>herb; vinegar>honey; vinegar>onion; vinegar>pear; vinegar>rice; vinegar>spice; vinegar>tomato; vinegar>water; vinegar>wheat; vinegar>wine; wing>aircraft; wing>bat; wing>bird; wing>flight; wing>fluid; wing>gas; wing>helicopter; wing>liquid; wing>penguin; wing>physics; wing>surface; wing>tree; winner>champion; winter>butterfly; winter>global warming; winter>snow; violence>aggression; violence>archaeology; violence>capitalism; violence>dignity; violence>human rights; violence>interest; violence>law; violence>mammal; violence>murder; violence>neglect; violence>philosophy; violence>police; violence>pride; violence>psychology; violence>respect; violence>shame; violence>suicide; violence>terrorism; violence>trade; violence>war; violin>arch; violin>cello; violin>disco; violin>fraud; violin>guitar; violin>horse; violin>jazz; violin>leather; violin>orchestra; violin>piano; violin>rhythm; violin>silk; violin>silver; violin>spectrum; violin>steel; violin>wood; wire>brass; wire>bronze; wire>cable; wire>copper; wire>diamond; wire>electricity; wire>gold; wire>iron; wire>lead; wire>monopoly; wire>silver; wire>steel; virtual reality>machine; virtual reality>navy; virtual reality>science fiction; virtual reality>simulation; virtual reality>techno; virtual reality>therapy; virtue>blame; virtue>courage; virtue>courtesy; virtue>dignity; virtue>discipline; virtue>duty; virtue>faith; virtue>generosity; virtue>goodness; virtue>happiness; virtue>honesty; virtue>hope; virtue>humility; virtue>intelligence; virtue>justice; virtue>kindness; virtue>law; virtue>love; virtue>loyalty; virtue>mercy; virtue>patience; virtue>peace; virtue>praise; virtue>principle; virtue>psychology; virtue>respect; virtue>sincerity; virtue>solitude; virtue>sympathy; virtue>truth; virtue>turkey; virtue>vice; virtue>widow; virus>animal; virus>antibiotic; virus>bacteria; virus>cancer; virus>carbon dioxide; virus>crystal; virus>disease; virus>dna; virus>evolution; virus>genetics; virus>infection; virus>insect; virus>life; virus>plant; virus>poison; virus>protein; virus>species; virus>vaccination; virus>vaccine; wisdom>analogy; wisdom>artificial intelligence; wisdom>consciousness; wisdom>empathy; wisdom>experience; wisdom>human; wisdom>ignorance; wisdom>imitation; wisdom>intelligence; wisdom>knowledge; wisdom>memory; wisdom>philosophy; wisdom>poison; wisdom>psychology; wisdom>reflection; wisdom>science fiction; wisdom>self-awareness; wisdom>sincerity; wisdom>turkey; wisdom>verb; wisdom>virtue; wish>fiction; wish>fountain; vision>goal; wit>common sense; wit>genius; wit>humour; wit>poetry; wit>reasoning; vitality>health; vitality>life; vitality>youth; vitamin>bone; vitamin>disease; vitamin>fat; vitamin>grain; vitamin>hygiene; vitamin>lemon; vitamin>liver; vitamin>meat; vitamin>milk; vitamin>morale; vitamin>mouse; vitamin>muscle; vitamin>nutrition; vitamin>protein; vitamin>rat; vitamin>rice; vitamin>salt; vitamin>skin; vitamin>sunlight; vitamin>surgeon; vitamin>water; withdrawal>anxiety; withdrawal>headache; witness>credibility; witness>judge; witness>lawyer; witness>memory; witness>prosecution; witness>prosecutor; witness>sense; vocabulary>collocation; vocabulary>communication; vocabulary>education; vocabulary>gesture; vocabulary>infant; vocabulary>language; vocabulary>learning; vocabulary>speech; volcano>carbon; volcano>carbon dioxide; volcano>carbon monoxide; volcano>chemical; volcano>climate; volcano>famine; volcano>landscape; volcano>ozone; volcano>planet; volcano>radiation; volcano>soil; volcano>sun; volleyball>basketball; volleyball>tennis; volume>area; volume>centimetre; volume>circle; volume>density; volume>formula; volume>gas; volume>length; volume>liquid; volume>litre; volume>pint; volume>pressure; volume>quantity; volume>sphere; volume>teaspoon; volume>weight; woman>adult; woman>beauty; woman>biology; woman>birth; woman>breast; woman>child; woman>cigarette; woman>copper; woman>economics; woman>engineering; woman>female; woman>gene; woman>genetics; woman>girl; woman>graduate; woman>health; woman>historian; woman>human; woman>lady; woman>matter; woman>mirror; woman>professional; woman>psychology; woman>science; woman>spirit; woman>suicide; woman>aluminium; wood>bark; wood>branch; wood>cherry; wood>coconut; wood>extract; wood>fuel; wood>leaf; wood>oak; wood>pine; wood>root; wood>ski; wood>soil; wood>weapon; woodland>forest; woodland>grass; wool>auction; wool>carpet; wool>clothing; wool>cotton; wool>leather; wool>linen; wool>protein; wool>sheep; wool>silk; wool>skin; word>adjective; word>adverb; word>bear; word>clause; word>grammar; word>language; word>noun; word>phrase; word>preposition; word>pronoun; word>pronunciation; word>speech; word>verb; word>writing; workaholic>alcohol; workaholic>alcoholic; workaholic>stroke; worker>workforce; workforce>employment; workforce>industry; workforce>management; workforce>wage; workplace>corporation; workplace>employment; workplace>factory; workplace>office; workplace>organization; workshop>aircraft; workshop>building; workshop>factory; workshop>machine; workshop>manufacturing; workshop>tool; world>career; world>civilization; world>concept; world>consumer; world>country; world>devil; world>earth; world>experience; world>globalization; world>heaven; world>hell; world>history; world>human; world>paradise; world>planet; world>population; world>reality; world>region; world>science fiction; world>temptation; worms>animal; worms>corpse; worms>dog; worms>insect; worms>leg; worms>snake; worms>soil; worms>species; worry>anxiety; worry>emotion; worry>exercise; worry>hug; worry>mind; worry>risk; worry>sleep; worship>angel; worship>celebrity; worship>flag; worship>god; worship>religion; worship>saint; worship>society; worst>superlative; wound>bacteria; wound>bandage; wound>blood; wound>bruise; wound>bullet; wound>infection; wound>injury; wound>knife; wound>razor; wound>skin; vow>ceremony; vow>meat; vow>promise; vow>wedding; vow>wine; vow>witness; vow>vote; vowels>alphabet; vowel>consonant; vowel>curtain; vowel>jaw; vowel>language; vowel>preposition; vowel>sound; vowel>syllable; voyage>exploration; voyage>travel; wrinkle>dog; wrinkle>skin; wrinkle>water; wrist>hand; writer>actor; writer>argument; writer>astronomy; writer>author; writer>biology; writer>blog; writer>court; writer>culture; writer>dialogue; writer>diary; writer>edition; writer>education; writer>entertainment; writer>essay; writer>film; writer>fraud; writer>greed; writer>historian; writer>idea; writer>image; writer>irony; writer>literature; writer>logic; writer>lyrics; writer>narrative; writer>novel; writer>paper; writer>parliament; writer>philosophy; writer>physics; writer>poetry; writer>policy; writer>politics; writer>religion; writer>revelation; writer>rhyme; writer>rhythm; writer>science fiction; writer>society; writer>writing; writing>alphabet; writing>author; writing>communication; writing>essay; writing>gerund; writing>history; writing>human; writing>illustration; writing>information; writing>journalism; writing>journalist; writing>language; writing>literacy; writing>literature; writing>novelist; writing>painting; writing>paper; writing>pen; writing>pencil; writing>poet; writing>science; writing>syllable; writing>time; writing>translation; writing>writer; xenophobia>concept; xenophobia>culture; xenophobia>imitation; xenophobia>immigration; xenophobia>individual; xenophobia>prejudice; xenophobia>propaganda; xenophobia>racism; xenophobia>society; x-ray>aluminium; x-ray>astronomy; x-ray>bone; x-ray>cancer; x-ray>copper; x-ray>dna; x-ray>energy; x-ray>experiment; x-ray>iron; x-ray>kilogram; x-ray>life; x-ray>muscle; x-ray>surgeon; yacht>air conditioning; yacht>aluminium; yacht>boat; yacht>cargo; yacht>customs; yacht>radio; yacht>sailing; yacht>ship; yacht>steel; yacht>tide; yacht>area; yacht>golf; yacht>inch; yacht>length; yacht>metre; yacht>volume; year>archaeology; year>astronomy; year>autumn; year>calendar; year>day; year>daylight; year>dinosaur; year>earth; year>geology; year>hour; year>millennium; year>minute; year>month; year>pie; year>planet; year>season; year>second; year>summer; year>sun; year>time; year>weather; year>week; year>vegetation; year>winter; year>yellow>autumn; yellow>bee; yellow>bus; yellow>butter; yellow>coward; yellow>curiosity; yellow>daylight; yellow>electricity; yellow>envy; yellow>friendship; yellow>gold; yellow>green; yellow>hope; yellow>imagination; yellow>intellectual; yellow>jam; yellow>jealousy; yellow>laser; yellow>lemon; yellow>mirror; yellow>optimism; yellow>rebellion; yellow>recreation; yellow>rose; yellow>spectrum; yellow>star; yellow>sugar; yellow>summer; yellow>sun; yellow>sunshine; yellow>temperature; yellow>traffic light; yellow>wasp; yellow>water; yellow>vein; yoga>mind; yoga>soul; yoga>stroke; yogurt>bacteria; yogurt>bakery; yogurt>camel; yogurt>cucumber; yogurt>farmer; yogurt>fast food; yogurt>fat; yogurt>fruit; yogurt>garlic; yogurt>goat; yogurt>honey; yogurt>jam; yogurt>mango; yogurt>milk; yogurt>olive; yogurt>onion; yogurt>peach; yogurt>pineapple; yogurt>protein; yogurt>salt; yogurt>sheep; yogurt>spinach; yogurt>strawberry; yogurt>sugar; yogurt>turkey; youngster>child; youth>adult; youth>childhood; youth>obesity; youth>suicide; zebra>animal; zebra>donkey; zebra>extinction; zebra>hill; zebra>horse;

zebra>mammal; zebra>mountain; zebra>species; zebra>woodland; zone>tv; zoo>bird; zoo>chicken; zoo>ecology; zoo>elephant; zoo>extinction; zoo>fish; zoo>giraffe; zoo>insect;  
zoo>mammal; zoo>neglect; zoo>reptile; zoo>species; zoo>whale;

## Appendix AD

As discussed in Subchapter 11.2, this listing shows in respect to English Vocabulary Profile for each vocabulary ranging from A1 to A1&A2&B1&B2&C1&C2 unique nouns in unique Wikipedia hyperlinks connecting unique nouns in vocabulary so that nouns are listed separately for each language ability level. For each observed vocabulary ranging from A1 to A1&A2&B1&B2&C1&C2 a full listing of unique Wikipedia hyperlinks connecting unique nouns in vocabulary can be extracted from listing shown in Appendix AC by taking into consideration only those hyperlinks whose start concept and end concept belong to nouns of currently observed vocabulary among vocabularies ranging from A1 to A1&A2&B1&B2&C1&C2.

In contrast with Appendix AE, please note that concepts of consecutive ranges of language ability levels of English Vocabulary profile can be considered cumulative so that next ranges of language ability levels almost always (with very few exceptions) contain all concepts belonging to all previous ranges of language ability levels whereas consecutive vocabularies of Oxford Wordlist can be considered only partially cumulative since there is only partial overlap between consecutive vocabularies. These two different kinds of behavior affect also interpretation of Wikipedia hyperlinks connecting unique nouns in respect to both Oxford Wordlist and English Vocabulary Profile so that these hyperlinks can be considered cumulative for English Vocabulary Profile whereas hyperlinks can be considered only partially cumulative for Oxford Wordlist since there is only partial overlap.

Among 2878 unique concepts the biggest subentity that enabled traversing hyperlink chains between any of concepts belonging to this subentity in hyperlink network of vocabulary A1&A2&B1&B2&C1&C2 when any hyperlink can be traversed in both actual linking direction and opposite direction contained 2850 unique concepts and 28 external unique concepts include: comment, direction, directions, end, ending, exhaust, exhaustion, hole, network, networking, northwest, opening, program, programme, register, registration, remark, resemblance, scene, scenery, similarity, southeast, superior, superiority, term, terms, will and willingness.

<p>Unique nouns in unique Wikipedia hyperlinks connecting unique nouns for observed vocabulary of A1 (i.e. when range of language ability levels reached so far is A1)</p> <p><i>Alltogether 248 nouns with the following subdivision.</i></p> <p><i>Nouns belonging to language ability level A1 (248 nouns):</i>  adult; afternoon; animal; answer; apple; april; arm; august; baby; bag; ball; banana; bank; basketball; bathroom; beach; beard; bed; bedroom; beer; bird; birthday; biscuit; body; book; box; boy; bread; breakfast; bus; business; butter; café; cake; camera; cat; cd; cd player; chair; cheese; child; chip; chocolate; city; class; classroom; clock; coat; coffee; colour; computer; conversation; country; cow; credit card; cross; dad; dance; dancing; daughter; day; december; desk; dictionary; dining room; dinner; dog; door; dress; drink; dvd; ear; email; evening; eye; face; factory; family; farm; father; february; film; fish; floor; flower; food; foot; football; friday; friend; fruit; game; garden; girl; glass; glasses; grass; group; guitar; hair; hand; hat; head; holiday; home; homework; horse; hospital; hotel; hour; house; husband; ice cream; jacket; january; jeans; juice; july; june; kitchen; knife; language; leg; lesson; life; living room; lunch; man; march; may; meal; meat; message; milk; minute; miss; mobile; mobile phone; monday; money; month; morning; mother; mouth; movie; mrs; mum; museum; music; nationality; newspaper; night; noise; nose; note; november; number; october; paint; paper; parent; park; party; pen; pencil; people; person; pet; picnic; pig; pizza; plant; player; potato; problem; question; radio; rain; restaurant; rice; river; road; room; salt; sandwich; saturday; school; sea; september; sheep; shirt; shoe; shop; shopping; shower; skirt; smoking; snow; son; soup; sport; street; student; sugar; summer; sun; sunday; supermarket; swimming pool; tea; teacher; television; tennis; thursday; time; toilet; tomato; tooth; town; train; tree; trousers; t-shirt; tuesday; tv; university; waiter; wall; watch; water; weather; website; wednesday; week; weekend; vegetable; wife; village; wind; window; wine; winter; woman; word; world; writing; year; zoo;</p> <p><i>Nouns belonging to language ability level A2 (0 nouns):</i>  No nouns.</p> <p><i>Nouns belonging to language ability level B1 (0 nouns):</i>  No nouns.</p> <p><i>Nouns belonging to language ability level B2 (0 nouns):</i>  No nouns.</p> <p><i>Nouns belonging to language ability level C1 (0 nouns):</i>  No nouns.</p> <p><i>Nouns belonging to language ability level C2 (0 nouns):</i>  No nouns.</p>
<p>Unique nouns in unique Wikipedia hyperlinks connecting unique nouns for observed vocabulary of A1&amp;A2 (i.e. when range of language ability levels reached so far is A1–A2)</p> <p><i>Alltogether 706 nouns with the following subdivision.</i></p> <p><i>Nouns belonging to language ability level A1 (265 nouns):</i>  adult; afternoon; age; animal; answer; apple; april; arm; august; baby; bag; ball; banana; bank; basketball; bathroom; beach; beard; bed; bedroom; beer; bird; birthday; biscuit; board; boat; body; book; box; boy; bread; breakfast; brother; bus; business; butter; café; cake; camera; car; cat; cd; cd player; chair; cheese; child; chip; chocolate; city; class; classroom; clock; coat; coffee; colour; computer; conversation; country; course; cow; credit card; cross; dad; dance; dancing; daughter; day; december; desk; dictionary; dining room; dinner; dog; doll; dollar; door; dress; drink; dvd; ear; email; evening; eye; face; factory; family; farm; father; february; film; fish; flat; floor; flower; food; foot; football; friday; friend; fruit; game; garden; girl; glass; glasses; grass; group; guitar; hair; hand; hat; head; holiday; home; homework; horse; hospital; hotel; hour; house; husband; ice cream; jacket; january; jeans; juice; july; june; kitchen; knife; language; leg; lesson; life; living room; lunch; man; march; may; meal; meat; message; milk; minute; miss; mobile; mobile phone; monday; money; month; morning; mother; mouth; movie; mrs; mum; museum; music; name; nationality; newspaper; night; noise; nose; note; november; number; october; page; paint; pair; paper; parent; park; party; pen; pencil; people; person; pet; phone; photo; picnic; pig; pizza; plant; player; potato; problem; question; radio; rain; restaurant; rice; river; road; room; salt;</p>

sandwich; saturday; school; sea; september; sheep; shirt; shoe; shop; shopping; shower; skirt; smoking; snow; son; soup; sport; station; stop; street; student; sugar; summer; sun; sunday; supermarket; swimming pool; tea; teacher; television; tennis; thursday; time; today; toilet; tomato; tooth; town; train; tree; trousers; t-shirt; tuesday; tv; university; waiter; wall; watch; water; weather; website; wednesday; week; weekend; vegetable; wife; village; wind; window; wine; winter; woman; word; world; writing; year; zoo;

*Nouns belonging to language ability level A2 (441 nouns):*

accident; actor; adjective; adverb; advertisement; air; airport; alarm clock; album; alcohol; ambulance; apartment; area; art; artist; aunt; autumn; back; badminton; balloon; barbecue; baseball; bat; bean; bear; bicycle; bike; bill; biology; bit; black; blackboard; blanket; blood; blue; board game; bookcase; bookshelf; boot; bottle; bowl; boyfriend; brain; bridge; brown; brush; building; bus station; bus stop; calendar; camping; can; capital; capital letter; car park; card; carpet; carrot; cartoon; case; cash; castle; cathedral; ceiling; cent; centimetre; century; cereal; chain; champagne; chat; chef; chemist; chemistry; cheque; chess; chicken; cigarette; circle; cleaner; climbing; cloud; clown; club; cola; cold; college; comb; comic; company; comparative; competition; concert; cook; cooking; cost; cousin; cream; cricket; crowd; cupboard; curry; curtain; customer; cycling; dancer; degree; dentist; department; department store; desert; dessert; diary; digital camera; dinosaur; diploma; disco; document; drawer; drawing; dream; drum; duck; earring; east; electricity; elephant; engine; engineer; entrance; envelope; euro; exam; examination; exercise; exit; fact; farmer; fashion; fast food; finger; fire; fishing; flight; fog; forest; fork; form; furniture; garlic; gas; gate; geography; gift; girlfriend; glove; goal; gold; golf; gram; grammar; grandchild; granddad; granddaughter; grandfather; grandma; grandmother; grandpa; grandparent; grandson; granny; grape; green; grey; guide; hall; ham; handbag; headache; health; heart; heating; helicopter; help; hill; hip-hop; history; hobby; hockey; honey; housewife; ice; id card; idea; information; insect; island; jam; jazz; jewellery; jumper; kick; kid; kilo; kilogram; kilometre; king; kiss; kit; kite; lake; laptop; leather; lemon; lemonade; library; light; line; lion; litre; luck; luggage; lunchtime; machine; magazine; mail; main course; make-up; mango; map; mark; market; match; mechanic; medicine; meeting; melon; member; memory; menu; metre; midday; midnight; mineral water; mirror; monkey; mosque; motorway; mouse; mp3 player; mug; mushroom; nature; neck; necklace; news; noon; north; notebook; notice; noun; nurse; office; oil; omelette; onion; opera; pain; painter; painting; partner; passenger; passport; pasta; pc; pear; pence; perfume; petrol station; photographer; photography; physics; piano; piece; pillow; pink; plan; plastic; playground; plural; pocket; police; police officer; policeman; policewoman; pool; pop; post; post office; postcard; poster; present; prize; programme; project; pub; pupil; purple; purse; puzzle; quiz; rabbit; railway; raincoat; rat; reason; receipt; receptionist; red; rest; right; rock; roof; roundabout; rubber; rugby; ruler; runner; running; sailing; salad; sauce; sausage; scarf; schoolchild; science; scissors; screen; seat; second; secretary; set; shampoo; ship; shorts; show; sightseeing; sign; silver; singer; singing; sink; site; sitting room; size; skate; skateboard; skateboarding; skating; skiing; sky; snack; snake; snowboarding; soap; sock; soft drink; software; song; soul; sound; south; space; spelling; spoon; square; stadium; staff; stairs; star; steak; stomach; storm; suitcase; sunglasses; superlative; supper; surfing; surname; sweater; sweet; sweets; table tennis; team; teenager; telephone; temperature; text; textbook; theatre; thunderstorm; tights; timetable; toast; toe; toothache; toothbrush; top; tour guide; tourist; towel; toy; traffic; traffic light; tram; umbrella; uncle; uniform; walk; walking; wallet; war; washing machine; way; web page; weekday; verb; west; wheel; white; video; video game; violin; vocabulary; volleyball; wood; wool; yellow; yogurt;

*Nouns belonging to language ability level B1 (0 nouns):*

No nouns.

*Nouns belonging to language ability level B2 (0 nouns):*

No nouns.

*Nouns belonging to language ability level C1 (0 nouns):*

No nouns.

*Nouns belonging to language ability level C2 (0 nouns):*

No nouns.

Unique nouns in unique Wikipedia hyperlinks connecting unique nouns for observed vocabulary of A1&A2&B1 (i.e. when range of language ability levels reached so far is A1–B1)

*Alltogether 1374 nouns with the following subdivision.*

*Nouns belonging to language ability level A1 (273 nouns):*

adult; afternoon; age; animal; answer; apple; april; arm; august; baby; bag; ball; banana; bank; basketball; bathroom; beach; beard; bed; bedroom; beer; bird; birthday; biscuit; board; boat; body; book; box; boy; bread; breakfast; brother; bus; business; butter; café; cake; camera; car; cat; cd; cd player; chair; cheese; child; chip; chocolate; city; class; classroom; clock; clothes; coat; coffee; colour; computer; conversation; country; course; cow; credit card; cross; dad; dance; dancing; daughter; day; december; desk; dictionary; dining room; dinner; dog; doll; garden; door; dress; drink; dvd; ear; email; end; evening; eye; face; factory; family; farm; father; february; film; fish; flat; floor; flower; food; foot; football; friday; friend; fruit; fun; game; glasses; girl; glass; glasses; grass; group; guitar; hair; hand; hat; head; holiday; home; homework; horse; hospital; hotel; hour; house; husband; ice cream; jacket; january; jeans; juice; july; june; kitchen; knife; language; leg; lesson; letter; life; living room; lunch; man; march; may; meal; meat; message; milk; minute; miss; mobile; mobile phone; monday; money; month; morning; mother; mouth; movie; mr; mrs; mum; museum; music; name; nationality; newspaper; night; noise; nose; note; november; number; october; page; paint; pair; paper; parent; park; party; pen; pencil; people; person; pet; phone; photo; picnic; pig; pizza; plant; player; potato; problem; question; radio; rain; restaurant; rice; river; road; room; salt; sandwich; saturday; school; sea; september; sheep; shirt; shoe; shop; shopping; shower; sister; skirt; smoking; snow; son; soup; station; stop; street; student; sugar; summer; sun; sunday; supermarket; swimming pool; tea; teacher; television; tennis; test; the internet; thursday; time; today; toilet; tomato; tooth; town; train; tree; trousers; t-shirt; tuesday; tv; university; waiter; wall; watch; water; weather; website; wednesday; week; weekend; vegetable; wife; village; wind; window; wine; winter; woman; word; world; writing; year; zoo;

*Nouns belonging to language ability level A2 (465 nouns):*

accident; actor; adjective; adventure; adverb; advertisement; aeroplane; air; airport; alarm clock; album; alcohol; ambulance; apartment; appointment; area; art; artist; aunt; autumn; back; badminton; balloon; barbecue; baseball; bat; bean; bear; bicycle; bike; bill; biology; bit; black; blackboard; blanket; blood; blue; board game; bookcase; bookshelf; boot; bottle; bowl; boyfriend; brain; bridge; brown; brush; building; bus station; bus stop; calendar; camping; can; capital; capital letter; car park; card; carpet; carrot; cartoon; case; cash; castle; cathedral; ceiling; cent; centimetre; century; cereal; champagne; change; channel; chat; chef; chemist; chemistry; cheque; chess; chicken; church; cigarette; circle; cleaner; click; climbing; cloud; clown; club; cola; cold; college; comb; comic; company; comparative; competition; concert; cook; cooking; cost; cousin; cream; cricket; crowd; cupboard; curry; curtain; customer; cycling; dancer; degree; dentist; department; department store; desert; dessert; diary; digital camera; dinosaur; diploma; directions; disco; document; drawer; drawing; dream; drum; duck; earring; east; electricity; elephant; engine; engineer; entrance; envelope; euro; exam; examination; exercise; exit; fact; farmer; fashion; fast food; finger; fire; fishing; flight; fog; forest; fork; form; furniture; garlic; gas; gate; geography; gift; girlfriend; glove; goal; gold; golf; gram; grammar; grandchild; granddad; granddaughter; grandfather; grandma; grandmother; grandpa; grandparent; grandson; granny; grape; green; grey; guide; hall; ham; handbag; headache; health; heart; heating; helicopter; help; hill; hip-hop; history; hobby; hockey; honey; housewife; ice; id card; idea; information; insect; island; jam; jazz; jewellery; journey; jumper; kick; kid; kilo; kilogram; kilometre; king; kiss; kit; kite; lake; laptop; leather; lemon; lemonade; level; library; light; line; lion; litre; luck; luggage; lunchtime; machine; magazine; magic; mail; main course; make-up; mango; map; mark; market; match; mechanic; medicine; meeting; melon; member; memory; menu; metre; midday; midnight; mineral water; mirror; model; monkey; mosque; motorway; mountain; mouse; mp3 player; mug; mushroom; nature; neck; necklace; news; noon; north; notebook; notice; noun; nurse; occupation; office; oil; omelette; onion; opera; pain; painter; painting; partner; passenger; passport; pasta; pc; pear; pence; perfume; petrol; petrol station; photographer; photography; physics; piano; piece; pillow; pink; plan; plastic; playground; plural; pocket; police; police officer; policeman; policewoman; pool; pop; post; post office; postcard; poster; present; prize; programme; project; pub; pupil; purple; purse; puzzle; quiz; rabbit; railway; raincoat; rat; reason; receipt; receptionist; red; rest; right; rock; roof; roundabout; rubber; rugby; ruler; runner; running; sailing; salad; sauce; sausage; scarf; schoolchild; science; scissors; screen; seat; second; secretary; set; shampoo; ship; shorts; show; side; sightseeing; sign; silver; singer; singing; sink; site; sitting room; size; skate; skateboard; skateboarding; skating; skiing; sky; snack; snake; snowboarding; soap; sock; soft drink; software; song; soul; sound; south; space; spelling; spoon; square; stadium; staff; stairs; star; steak; stomach; storm; story; suitcase; sunglasses; superlative; supper; surfing; surname; sweater; sweet; sweets; table tennis; team; teenager; telephone; temperature; text; textbook; theatre; thunderstorm; tights; timetable; toast; toe; toothache; toothbrush; top; tour; tour guide; tourist; towel; toy; traffic; traffic light; tram; trip; umbrella; uncle; uniform; walk; walking; wallet; war; washing machine; way; web page; weekday; verb; west; wheel; white; video; video game; view; winner; violin; vocabulary; volleyball; wood; wool; yellow; yogurt;

*Nouns belonging to language ability level B1 (636 nouns):*

ability; accent; account; accountant; ache; act; action; ad; advantage; air conditioning; air force; airline; alarm; alphabet; amount; angel; animation; ankle; anniversary; ant; antique; application; architect; architecture; argument; arrangement; aspirin; athletics; atmosphere; attention; audience; author; backpack; backpacker; backpacking; bacon; baggage; baker; balcony; ballet; bank account; barber; basket; battle; bay; beauty; bee; beef; behaviour; benefit; bin; biography; birth; blog; blogger; bomb; bone; booking; border; boxing; bracelet; brake; branch; breast; breath; breeze; bride; broccoli; brochure; bucket; bug; bull; bunch; butcher; butterfly; button; buyer; cabbage; cabin; cable; calculator; calf; camel; camp; campsite; canal; cancer; candidate; candle; career; cattle; cave; cd-room; celebration; celebrity; central heating; ceremony; challenge; champion; championship; chance; check; cheek; chest of drawers; chewing gum; childhood; chin; choice; circus; cliff; climate; clinic; coast; coconut; cod; coin; collection; comedy; comma; common sense; communication; competitor; complaint; conclusion; conference; consonant; contest; continent; contract; corn; cottage; cotton; cough; count; courgette; court; crash; creature; crew; crime; criminal; crop; cucumber; culture; currency; curriculum; cushion; custom; customs; cyclist; death; definite article; demand; description; design; designer; destination; detective; diagram; difficulty; direction; dirt; disadvantage; disappointment; disc; disc jockey; discussion; disease; dishwasher; disk; distance; district; diver; diving; divorce; dj; documentary; dolphin; donkey; dot; doubt; download; drama; drive; dust; dustbin; duty; duvet; earth; economics; education; effect; effort; elbow; election; emergency; employee; employer; employment; ending; enemy; energy; engineering; enquiry; entertainment; essay; event; exchange; exchange rate; excitement; exhibition; experience; experiment; expert; explanation; extreme sports; fair; fall; fare; farming; favourite; fear; fee; feeling; ferry; festival; fever; fiction; figure; fire station; firefighter; firework; firm; flag; flood; flour; flute; fly; folk; foil; forehead; fortnight; fountain; frame; freezer; friendship; frog; frying pan; fuel; full stop; fur; future; gallery; generation; ghost; giraffe; goalkeeper; goat; government; graphics; greeting; grill; groom; ground; guard; guitarist; gun; gym; gymnastics; haircut; hairdresser; handkerchief; handwriting; happiness; harbour; heart attack; heat; heater; heel; height; herb; hero; honeymoon; hope; hostel; hug; human; hunger; ice hockey; ice skating; illness; imagination; immigration; inch; indefinite article; industry; infinitive; ingredient; initial; ink; inquiry; instructor; interest; interview; invention; iron; ironing; issue; jail; jar; jogging; joke; journalist; judge; jug; jungle; kangaroo; keeper; kettle; killer; killing; kitten; knee; knowledge; lab; label; laboratory; ladder; lady; lamb; land; landscape; law; lawyer; leader; leaf; lecture; leisure; length; lettuce; lie; lighter; lightning; link; lip; liquid; literature; loan; logo; lorry; lottery; love; lover; madam; marriage; material; membership; mess; message board; metal; mile; millimetre; mind; monster; monument; mosquito; moustache; murder; murderer; musician; mystery; neighbour; nephew; niece; nightclub; nightlife; nightmare; northwest; novel; object; ocean; officer; olive; opinion; opposite; orchestra; organization; oven; owner; palace; pan; pants; paragraph; parcel; parking; parrot; password; patient; pattern; pay; pea; peace; peach; peanut; pedestrian; penguin; penny; performance; performer; period; pharmacy; photocopy; phrasal verb; phrase; pie; pin; pineapple; pirate; planet; pleasure; poem; poet; poetry; point; politician; politics; pollution; population; port; possibility; prayer; preparation; preposition; presentation; president; priest; primary school; prince; princess; prison; prisoner; profession; professor; promise; pronoun; pronunciation; property; public transport; pullover; pump; punctuation; puppy; qualification; quantity; question mark; questionnaire; rail; rainforest; reception; recipe; record; recording; recycling; refund; region;



relation; religion; remote control; repair; reply; report; reporter; request; rescue; research; resort; respect; result; return; review; robot; role; roll; rose; rubbish; rug; rule; run; sailor; salary; salmon; sand; sandal; saucer; scene; scenery; science fiction; scientist; sculpture; season; secondary school; secret; security; seller; sense; sex; shade; shadow; shape; shark; sheet; shore; shoulder; signature; silence; silk; sir; ski; skill; skin; sleep; sleeve; smile; snowboard; soap opera; social networking; society; soldier; solution; southeast; souvenir; speech; speed; spice; spider; spinach; spy; statue; step; stick; stone; strawberry; stream; strike; studio; study; style; success; sunrise; sunset; sunshine; supporter; sweatshirt; switch; system; tablet; talent; talk; taste; tax; teaching; technique; technology; temple; tent; thought; throat; thumb; thunder; tick; tiger; tin; title; tongue; toothpaste; tourism; tournament; tower; track; tracksuit; trade; traffic jam; training; translation; transport; travel; trend; trouble; truck; trumpet; tube; tuna; tunnel; turkey; turn; turning; twin; uncountable; underpants; underwear; unemployment; unit; wage; valley; van; wardrobe; vase; waste; waterfall; wave; weather forecast; webcam; wedding; vegetarian; vehicle; weight; whale; wheelchair; video clip; wildlife; windscreen; windsurfing; wing; virus; volume; worry; worst; vote; vowel; writer; yard; yoga; youth; zone;

*Nouns belonging to language ability level B2 (0 nouns):*  
No nouns.

*Nouns belonging to language ability level C1 (0 nouns):*  
No nouns.

*Nouns belonging to language ability level C2 (0 nouns):*  
No nouns.

Unique nouns in unique Wikipedia hyperlinks connecting unique nouns for observed vocabulary of A1&A2&B1&B2 (i.e. when range of language ability levels reached so far is A1–B2)

*Alltogether 2121 nouns with the following subdivision.*

*Nouns belonging to language ability level A1 (280 nouns):*

adult; afternoon; age; animal; answer; apple; april; arm; august; baby; bag; ball; banana; bank; basketball; bathroom; beach; beard; bed; bedroom; beer; bird; birthday; biscuit; board; boat; body; book; box; boy; bread; breakfast; brother; bus; business; butter; café; cake; camera; car; cat; cd; cd player; chair; cheese; child; chip; chocolate; city; class; classroom; clock; clothes; coat; coffee; colour; computer; conversation; country; course; cow; credit card; cross; cup; dad; dance; dancing; daughter; day; december; desk; dictionary; dining room; dinner; dog; doll; dollar; door; dress; drink; dvd; ear; email; end; evening; eye; face; factory; family; farm; father; february; film; fish; flat; floor; flower; food; foot; football; friday; friend; fruit; fun; game; guitar; girl; glasses; grass; group; guitar; hair; hand; hat; head; holiday; home; homework; horse; hospital; hotel; hour; house; husband; ice cream; jacket; january; jeans; juice; july; june; key; kind; kitchen; knife; language; leg; lesson; letter; life; living room; lunch; man; march; may; meal; meat; message; milk; minute; miss; mobile; mobile phone; monday; money; month; morning; mother; mouth; movie; mr; mrs; mum; museum; music; name; nationality; newspaper; night; noise; nose; note; november; number; october; page; paint; pair; paper; parent; park; part; party; pen; pencil; people; person; pet; phone; photo; picnic; picture; pig; pizza; place; plant; player; potato; problem; question; radio; rain; reading; restaurant; rice; river; road; room; salt; sandwich; saturday; school; sea; september; sheep; shirt; shoe; shop; shopping; shower; sister; skirt; smoking; snow; son; soup; sport; station; stop; street; student; sugar; summer; sun; sunday; supermarket; swimming pool; tea; teacher; television; tennis; test; the internet; thursday; time; today; toilet; tomato; tooth; town; train; tree; trousers; t-shirt; tuesday; tv; university; waiter; wall; watch; water; weather; website; wednesday; week; weekend; vegetable; wife; village; wind; window; wine; winter; woman; word; world; writing; year; zoo;

*Nouns belonging to language ability level A2 (473 nouns):*

accident; actor; adjective; adventure; adverb; advertisement; aeroplane; air; airport; alarm clock; album; alcohol; ambulance; apartment; appointment; area; art; artist; aunt; autumn; back; badminton; balloon; barbecue; baseball; bat; bean; bear; bicycle; bike; bill; biology; bit; black; blackboard; blanket; blood; blue; board game; bookcase; bookshelf; boot; boss; bottle; bowl; boyfriend; brain; break; bridge; brown; brush; building; bus station; bus stop; calendar; camping; can; cap; capital; capital letter; car park; card; carrot; cartoon; case; cash; castle; cathedral; ceiling; cent; centimetre; century; cereal; chain; champagne; change; channel; chat; chef; chemist; chemistry; cheque; chess; chicken; church; cigarette; circle; cleaner; click; climbing; cloud; clown; club; coach; cola; cold; college; comb; comic; company; comparative; competition; concert; cook; cooking; cost; cousin; cream; cricket; crowd; cupboard; curry; curtain; customer; cycling; dancer; danger; degree; dentist; department; department store; desert; dessert; diary; digital camera; dinosaur; diploma; directions; disco; document; drawer; drawing; dream; drum; duck; earring; east; electricity; elephant; engine; engineer; entrance; envelope; euro; exam; examination; exercise; exit; fact; farmer; fashion; fast food; finger; fire; fishing; flight; fog; forest; fork; form; furniture; garlic; gas; gate; geography; gift; girlfriend; glove; gold; golf; gram; grammar; grandchild; granddad; granddaughter; grandfather; grandma; grandmother; grandpa; grandparent; grandson; granny; grape; green; grey; guide; hall; ham; handbag; headache; health; heart; heating; helicopter; help; hill; hip-hop; history; hobby; hockey; honey; housewife; ice; id card; idea; information; insect; instrument; island; jan; jazz; jewellery; journey; jumper; kick; kid; kilo; kilogram; kilometre; king; kiss; kit; kite; lake; laptop; leather; lemon; lemonade; level; library; light; line; lion; litre; luck; luggage; lunchtime; machine; magazine; magic; mail; main course; make-up; manager; mango; map; mark; market; match; mechanic; medicine; meeting; melon; member; memory; menu; metre; midday; midnight; mineral water; mirror; model; monkey; mosque; motorway; mountain; mouse; mp3 player; mug; mushroom; nature; neck; necklace; news; noon; north; notebook; notice; noun; nurse; occupation; office; oil; omelette; onion; opera; pain; painter; painting; partner; passenger; passport; pasta; pc; pear; pence; perfume; petrol; petrol station; photograph; photographer; photography; physics; piano; piece; pillow; pink; plan; plastic; playground; plural; pocket; police; police officer; police station; policeman; policewoman; pool; pop; post; post office; postcard; poster; present; price; prize; program; programme; project; pub; pupil; purple; purse; puzzle; quiz; rabbit; railway; raincoat; rat; reason; receipt; receptionist; red; rest; right; rock; roof; roundabout; rubber; rugby; ruler; runner; running; sailing; salad; sauce; sausage; scarf; schoolchild; science; scissors; screen; seat; second; secretary; set; shampoo; ship; shorts; show; side; sightseeing; sign; silver; singer; singing; sink; site; sitting room; size; skate; skateboard; skateboarding; skating; skiing; sky; snack; snake; snowboarding; soap; sock; soft drink; software; song; soul; sound; south; space; spelling; spoon; square; stadium; staff; stage; stairs; star; steak; stomach; storm; suitcase; sunglasses; superlative; supper; surfing; surname; sweater; sweet; sweets; table tennis; team; teenager; telephone; temperature; term; text; textbook; theatre; thunderstorm; tights; timetable; toast; toe; toothache; toothbrush; top; tour; tour guide; tourist; towel; toy; traffic; traffic light; tram; trip; umbrella; uncle; uniform; walk; walking; wallet; war; washing machine; way; web page; weekday; verb; west; wine; white; video; video game; view; winner; violin; vocabulary; volleyball; wood; wool; yellow; yogurt;

*Nouns belonging to language ability level B1 (682 nouns):*

ability; accent; account; accountant; ache; act; action; ad; advantage; advert; air conditioning; air force; airline; alarm; alphabet; amount; angel; animation; ankle; anniversary; ant; antique; application; architect; architecture; argument; arrangement; aspirin; athletics; atmosphere; attention; audience; author; average; backpack; backpacker; backpacking; bacon; baggage; baker; balcony; ballet; bandage; bank account; barber; basket; battle; bay; beauty; bee; beef; behaviour; benefit; bin; biography; birth; blog; blogger; bomb; bone; booking; border; boxing; bracelet; brake; breast; breath; breeze; brocoli; brochure; bucket; bug; bull; bunch; butcher; butterfly; button; buyer; cabbage; cabin; cable; calculator; calf; camel; camp; campsite; canal; cancer; candidate; candle; captain; career; cattle; cave; cd-rom; celebration; celebrity; central heating; ceremony; challenge; champion; championship; chance; charge; check; cheek; chest of drawers; chewing gum; childhood; chin; choice; circus; cliff; climate; clinic; coast; coconut; cod; coin; collar; collection; comedy; comma; comment; common sense; communication; competitor; complaint; conclusion; conference; consonant; contents; contest; continent; contract; corn; correction; cottage; cotton; cough; count; courgette; court; crash; creature; crew; crime; criminal; crop; cucumber; culture; currency; curriculum; cushion; custom; customs; cut; cv; cyclist; damage; death; decision; defeat; definite article; demand; description; design; designer; destination; detective; diagram; difficulty; direction; dirt; disadvantage; disappointment; disc; disc jockey; discussion; disease; dishwasher; disk; distance; district; diver; diving; divorce; dj; documentary; dolphin; donkey; dot; doubt; download; drama; drive; drug; dust; dustbin; duty; duvet; earth; economics; edge; education; effect; effort; elbow; election; embassy; emergency; employee; employer; employment; ending; enemy; engineering; enquiry; entertainment; equipment; essay; event; exchange; exchange rate; excitement; exhibition; experience; experiment; expert; explanation; extreme sports; facilities; fair; fall; fare; farming; favourite; fear; fee; feeling; fever; festival; fever; fiction; figure; fire station; firefighter; firework; firm; flag; flood; flour; flute; fly; folk; fly; forehand; fortnight; fountain; frame; freezer; friendship; frog; frying pan; fuel; full stop; fur; future; gallery; generation; ghost; giraffe; goalkeeper; goat; government; graphics; greeting; grill; groom; ground; guard; guitarist; gun; gym; gymnastics; haircut; hairdresser; handwriting; happiness; harbour; hardware; headline; heart attack; heat; heater; heel; height; herb; hole; hole; honeymoon; hope; hostel; housework; hug; human; hunger; ice hockey; ice skating; illness; imagination; immigration; inch; indefinite article; industry; infinitive; ingredient; initial; ink; inquiry; instructor; interest; interview; invention; iron; ironing; issue; jail; jar; jogging; joke; journalist; judge; jug; jungle; kangaroo; keeper; kettle; killer; killing; kitten; knee; knowledge; lab; label; laboratory; ladder; lady; lamb; land; landscape; laugh; law; lawyer; leader; leaf; lecture; leisure; length; lettuce; lie; lighter; lightning; link; lip; liquid; literature; loan; logo; lorry; lottery; love; lover; madam; marriage; material; meaning; membership; mess; message board; metal; mile; millimetre; mind; minimum; mix; monster; monument; mosquito; moustache; murder; murderer; musician; mystery; neighbourhood; nephew; niece; nightclub; nightlife; nightmare; northwest; novel; object; ocean; officer; olive; operation; opinion; opportunity; opposite; orchestra; organization; oven; owner; palace; pan; pants; paragraph; parcel; parking; parrot; password; patient; pattern; pay; pea; peace; peach; peak; peanut; pedestrian; penguin; penny; performance; performer; period; pharmacy; photocopy; phrasal verb; phrase; pie; pin; pineapple; pirate; planet; pleasure; poem; poet; poetry; point; politician; politics; pollution; population; pork; port; possibility; pot; prayer; preparation; preposition; presentation; president; priest; primary school; prince; princess; prison; prisoner; profession; professor; promise; pronoun; pronunciation; property; public transport; pullover; pump; punctuation; puppy; purpose; push; qualification; quantity; question mark; questionnaire; rail; rainforest; reception; recipe; record; recording; recycling; refund; region; relation; relaxation; religion; remote control; repair; reply; report; reporter; request; rescue; research; resort; respect; result; return; review; robot; role; roll; rose; rubbish; rug; rule; run; sailor; salary; salmon; sand; sandal; saucer; scene; scenery; science fiction; scientist; score; sculpture; season; secondary school; secret; security; seller; sense; series; sex; shade; shadow; shape; shark; sheet; shore; shoulder; signature; silence; silk; sir; ski; skill; sleep; sleeve; smell; smile; snowboard; soap opera; social networking; society; soldier; solution; southeast; souvenir; speech; speed; spider; spinach; spy; statue; step; stick; stone; strawberry; stream; strike; studio; study; style; success; suggestion; sun; sunrise; sunset; sunshine; support; supporter; sweatshirt; switch; system; tablet; talent; talk; taste; tax; teaching; technique; technology; temple; tent; thief; thought; throat; thumb; thunder; tick; tiger; tin; tip; title; tongue; toothpaste; tourism; tournament; tower; track; tracksuit; trade; traffic jam; training; translation; transport; travel; travel agent; trend; trouble; truck; trumpet; tube; tuna; tunnel; turkey; turn; turning; twin; uncountable; underpants; underwear; unemployment; unit; user; wage; valley; van; wardrobe; vase; waste; waterfall; wave; weather forecast; webcam; wedding; vegetarian; vehicle; weight; whale; wheelchair; video clip; wildlife; windscreen; windsurfing; wing; virus; volume; worry; worst; vote; vowel; writer; yard; yoga; youth; zone;

*Nouns belonging to language ability level B2 (686 nouns):*

abuse; accuracy; acid; addict; addition; admission; admiration; advertising; affair; affection; agent; agreement; agriculture; aircraft; aluminium; ambassador; amusement; analysis; ancestor; anger; anxiety; apostrophe; appeal; arrest; arrow; atom; attachment; attempt; authority; availability; award; backup; badge; bakery; bang; banker; banking; bargain; barrier; basement; belief; bench; berry; bestseller; bikini; bite; blade; blame; bomber; bombing; bond; booklet; bookmark; boost; bow; bracket; brand; bravery; breed; brick; broadband; brother-in-law; bruise; budget; bulb; bullet; bun; burglar; burglary; calculation; campus; capacity; carbon; carbon dioxide; carbon footprint; carbon monoxide; carnival; cast; catering; cause; cell; cellar; cello; cemetery; certainty; characteristic; chart; chemical; cherry; chest; chimney; choir; citizen; civilization; claim; classic; clause; client; climate change; cloth; clothing; clue; coaching; code; coincidence; collocation; column; comedian; comfort; commerce; commercial; commitment; committee; community; companion; composer; compromise; concentration; concept; concern; concrete; confidence; confirmation; confusion; consciousness; consequence; consideration; construction; consultant; consumer; container; content; contribution; convenience; cooperation; copper; corporation; corridor; costume; council; counter; county; courage; courtesy; coward; crab; craft;

creation; creativity; crisis; critic; criticism; crocodile; cruelty; cure; curiosity; curve; cycle; darkness; dash; data; database; dawn; daylight; deal; debate; debit; debit card; debt; decade; deck; decline; decoration; deer; definition; delight; democracy; denim; desire; desktop; determination; determiner; device; devil; dialogue; diamond; dilemma; dimension; diplomat; disability; disagreement; drug; drug; discipline; disguise; dishonesty; dislike; distinction; dive; donation; dose; drug; eagerness; eagle; earnings; earthquake; economist; economy; edition; efficiency; electrician; electronics; element; embarrassment; emotion; enjoyment; entertainer; enthusiasm; environment; envy; episode; equal; era; error; escalator; estate; evidence; evil; evolution; exclamation mark; existence; expense; explosion; export; extract; eyebrow; eyelash; eyelid; eyesight; facility; failure; faith; fame; fantasy; fat; fault; feather; feedback; female; fence; finance; fingernail; first language; fisherman; flame; flash; fluency; force; fortune; fox; freedom; frost; frustration; funeral; gambling; gang; gardener; gardening; gear; gender; generosity; genetics; gentleman; global warming; god; gossip; graduate; graph; grave; greatness; grief; growth; guarantee; guidance; gun; hammer; handle; handout; hard drive; harm; harmony; harvest; headquarters; heaven; hedge; hell; helmet; hip; honesty; honour; horn; host; household; human rights; humour; hunting; hyphen; icon; idiom; idiot; image; immigrant; income; independence; individual; infection; inflation; injury; input; inspector; inspiration; institute; institution; insult; insurance; intelligence; intention; invasion; inventor; investigation; investigator; investment; investor; jaw; jewel; journalism; joy; judgment; junk food; jury; justice; kindness; landing; landlady; landlord; lane; lap; laser; laughter; laziness; lead; leaflet; leak; learner; learning; lecturer; leek; legend; leopard; liar; liberty; lid; lighting; litter; liver; living; loaf; loss; loyalty; lung; lyrics; majority; male; management; mankind; manual; manufacturer; manufacturing; marathon; marketing; martial art; mask; master; matter; mayor; measure; measurement; medal; microphone; minority; miracle; misery; mist; misunderstanding; mixture; moonlight; motivation; motive; motor; motorist; mud; muscle; musical; myth; nation; native speaker; navy; need; nerves; nonsense; novelist; nuisance; oak; obligation; observation; opening; overtime; owl; oxygen; pace; pack; pancake; panic; parachute; parade; parliament; partnership; passage; patience; pause; paw; payment; penalty; pension; percentage; personality; pharmacist; philosopher; philosophy; pine; pint; pitch; pity; planning; plot; plumber; poison; polar bear; policy; politeness; pond; popularity; portrait; potential; pottery; poverty; prawn; prediction; preference; prefix; prejudice; presenter; presidency; pressure; prevention; pride; prime minister; principal; priority; privacy; procedure; production; professional; proof; protection; protest; psychoanalyst; psychology; publication; publicity; publisher; pudding; punishment; quarrel; query; quiet; racism; rage; rainbow; rape; rate; razor; reach; reality; recession; recovery; recreation; referee; reference; reflection; refugee; regulation; rehearsal; relief; remains; remark; remedy; reputation; requirement; researcher; reserve; resident; resource; response; responsibility; retirement; revenge; revolution; rhythm; rib; rise; risk; robbery; rocket; roommate; root; rout; rumour; rush hour; sadness; safety; satellite; scandal; scar; scent; scratch; seed; selection; self-conciousness; semicolon; seminar; sensation; servant; setting; shed; shooting; shopkeeper; shot; sickness; signal; sister-in-law; skeleton; slave; slope; smoker; soil; soundtrack; source; specialist; species; spirit; spread; spreadsheet; stain; standard; state; statistics; steam; steel; steering wheel; stepmother; stock; stores; strategy; strength; string; stroke; structure; substance; suburb; suffering; suffix; suicide; sunlight; supplier; surface; surgery; surroundings; survey; survival; suspect; swan; sweat; sword; syllable; symbol; sympathy; symptom; tail; target; task; teaspoon; telecommunications; telescope; temper; temptation; terminal; terms; terrace; terror; terrorism; terrorist; theft; theory; therapy; thermometer; thesis; thigh; thirst; threat; tide; timing; toenail; tomb; ton; tone; tool; torch; tornado; touch; trace; tradition; tragedy; trail; tray; treasure; treatment; trekking; tri; triangle; tribe; trophy; truth; try; tutor; understanding; unhappiness; upgrade; waist; ward; warmth; wasp; weakness; wealth; weapon; welfare; verse; wheat; whisky; whistle; victory; widow; width; will; willingness; vinegar; violence; wire; virtual reality; wisdom; wish; vision; vitamin; witness; volcano; wolf; volunteer; worm; wound; voyage; wrist; x-ray; yacht; zebra;

*Nouns belonging to language ability level C1 (0 nouns):*  
No nouns.

*Nouns belonging to language ability level C2 (0 nouns):*  
No nouns.

Unique nouns in unique Wikipedia hyperlinks connecting unique nouns for observed vocabulary of A1&A2&B1&B2&C1 (i.e. when range of language ability levels reached so far is A1–C1)

*Alltogether 2470 nouns with the following subdivision.*

*Nouns belonging to language ability level A1 (281 nouns):*

adult; afternoon; age; animal; answer; apple; april; arm; august; baby; bag; ball; banana; bank; basketball; bathroom; beach; beard; bed; bedroom; beer; bird; birthday; biscuit; board; boat; body; book; box; boy; bread; breakfast; brother; bus; business; butter; café; cake; camera; car; cat; cd; cd player; chair; cheese; child; chip; chocolate; city; class; classroom; clock; clothes; coat; coffee; colour; computer; conversation; country; course; cow; credit card; cross; cup; dad; dance; dancing; daughter; day; december; desk; dictionary; dining room; dinner; doctor; dog; doll; dollar; door; dress; drink; dvd; ear; email; end; evening; eye; face; factory; family; farm; father; february; film; fish; flat; floor; flower; food; foot; football; friday; friend; fruit; fun; game; garden; girl; glass; glasses; grass; group; guitar; hair; hand; hat; head; holiday; home; homework; horse; hospital; hotel; hour; house; husband; ice cream; jacket; january; jeans; juice; july; june; key; kind; kitchen; knife; language; leg; lesson; letter; life; living room; lunch; man; march; may; meal; meat; message; milk; minute; miss; mobile; mobile phone; monday; money; month; morning; mother; mouth; movie; mr; mrs; mum; museum; music; name; nationality; newspaper; night; noise; nose; note; november; number; october; page; paint; pair; paper; parent; park; part; party; pen; pencil; people; person; pet; phone; photo; picnic; picture; pig; pizza; place; plant; player; potato; problem; question; radio; rain; reading; restaurant; rice; river; road; room; salt; sandwich; saturday; school; sea; september; sheep; shirt; shoe; shop; shopping; shower; sister; skirt; smoking; snow; son; soon; sport; station; stop; street; student; sugar; summer; sun; sunday; supermarket; swimming pool; tea; teacher; television; tennis; test; the internet; thursday; time; today; toilet; tomato; town; train; tree; trousers; t-shirt; tuesday; tv; university; waiter; wall; watch; water; weather; website; wednesday; week; weekend; vegetable; wife; village; wind; window; wine; winter; woman; word; world; writing; year; zoo;

*Nouns belonging to language ability level A2 (479 nouns):*

accident; actor; adjective; adventure; adverb; advertisement; aeroplane; air; airport; alarm clock; album; alcohol; ambulance; apartment; appointment; area; art; artist; aunt; autumn; back; badminton; balloon; barbecue; baseball; bat; bean; bear; bicycle; bike; bill; biology; bit; black; blackboard; blanket; blood; blue; board game; bookcase; bookshelf; boot; boss; bottle; boyfriend; brain; break; bridge; brown; brush; building; bus station; bus stop; calendar; camping; can; cap; capital; capital letter; car park; card; carpet; carrot; cartoon; case; cash; castle; cathedral; ceiling; cent; centimetre; century; cereal; chain; champagne; change; channel; chat; chef; chemist; chemistry; cheque; chess; chicken; church; cigarette; circle; cleaner; click; climbing; cloud; clown; club; coach; cola; cold; college; comb; comic; company; comparative; competition; concert; cook; cooking; cos; cousin; cream; cricket; crowd; cupboard; curry; curtain; customer; cycling; dancer; danger; degree; dentist; department; department store; diary; digital camera; dinosaur; diploma; directions; disco; document; drawer; drawing; dream; drum; duck; earring; east; electricity; elephant; engine; engineer; entrance; envelope; euro; exam; examination; exercise; exit; fact; farmer; fashion; fast food; file; finger; fire; fishing; flight; fog; forest; fork; form; furniture; garlic; gas; gate; geography; gift; girlfriend; glove; goal; gold; golf; gram; grammar; grandchild; granddad; granddaughter; grandfather; grandma; grandmother; grandpa; grandparent; grandson; granny; grape; green; grey; guest; guide; hall; ham; handbag; headache; health; heart; heating; helicopter; help; hill; hip-hop; history; hobby; hockey; honey; housewife; ice; id card; idea; information; insect; instrument; island; jam; jazz; jewellery; journey; jumper; kick; kid; kilo; kilogram; kilometre; king; kiss; kit; kite; lake; laptop; leather; lemon; lemonade; level; library; light; line; lion; litre; luck; luggage; lunchtime; machine; magazine; magic; mail; main course; make-up; manager; mango; map; mark; market; match; mechanic; medicine; meeting; melon; member; memory; menu; metre; midday; midnight; mineral water; mirror; model; monkey; mosque; motorway; mountain; mouse; mp3 player; mug; mushroom; nature; neck; necklace; news; north; notebook; notice; noun; nurse; occupation; office; oil; omelette; onion; opera; order; pain; painter; painting; partner; passenger; passport; pasta; pc; pear; pencil; perfume; petrol; petrol station; photograph; photographer; photography; physics; piano; piece; pillow; pink; plan; plastic; playground; plural; pocket; police; police officer; police station; policeman; policewoman; pool; pop; post; post office; postcard; poster; present; price; prize; program; programme; project; pub; pupil; purple; purse; puzzle; quiz; rabbit; railway; raincoat; rat; reason; receipt; receptionist; red; rest; right; rock; roof; roundabout; rubber; rugby; ruler; runner; running; sailing; salad; sauce; sausage; scarf; schoolchild; science; scissors; island; seat; second; secretary; set; shampoo; ship; shorts; show; side; sightseeing; sign; silver; singer; singing; sink; site; sitting room; size; skate; skateboard; skateboarding; skating; skiing; sky; snack; snake; snowboarding; soap; soap; soft drink; software; song; soul; sound; south; space; spelling; spoon; square; stadium; staff; stairs; star; steak; stomach; storm; storm; story; suitcase; sunglasses; superlative; supper; surfing; surname; sweater; sweet; sweets; table tennis; team; teenager; telephone; temperature; term; text; text message; textbook; theatre; thunderstorm; tights; timetable; toast; toe; toothache; toothbrush; top; tour; tour guide; tourist; towel; toy; traffic; traffic light; tram; trip; type; umbrella; uncle; uniform; walk; walking; wallet; war; washing machine; way; web page; weekday; verb; west; wheel; white; video; video game; view; winner; violin; vocabulary; volleyball; wood; wool; worker; yellow; yogurt;

*Nouns belonging to language ability level B1 (694 nouns):*

ability; accent; account; accountant; ache; act; action; ad; advantage; advert; air conditioning; air force; airline; alarm; alphabet; amount; angel; animation; ankle; anniversary; ant; antique; application; architect; architecture; argument; arrangement; aspirin; athletics; atmosphere; attention; audience; author; average; backpack; backpacker; backpacking; bacon; baggage; baker; balcony; ballet; bandage; bank account; barber; basket; battle; bay; beauty; bee; beef; behaviour; benefit; bin; biography; birth; blog; blogger; bomb; bone; booking; border; boxing; bracelet; brake; branch; breast; breath; breeze; bride; broccoli; brochure; bucket; bug; bull; bunch; butcher; butterfly; button; buyer; cabbage; cabin; cable; calculator; calf; camel; camp; campsite; canal; cancer; candidate; candle; captain; care; care; cattle; cave; cd-rom; celebration; celebrity; central heating; ceremony; challenge; champion; championship; chance; charge; check; cheek; chest of drawers; chewing gum; childhood; chin; choice; circus; cliff; climate; clinic; coast; coconut; cod; coin; collar; collection; comedy; comma; comment; common sense; communication; competitor; complaint; conclusion; conference; consonant; contents; contest; continent; contract; corn; correction; cottage; cotton; cough; count; courgette; court; crash; creature; crew; crime; criminal; crop; cucumber; culture; currency; curriculum; cushion; custom; customs; cut; cv; cyclist; damage; death; decision; defeat; definite article; demand; description; design; designer; destination; detective; diagram; diet; difficulty; direction; dirt; disadvantage; disappointment; disc; disc jockey; discussion; disease; dishwasher; disk; distance; district; diver; diving; divorce; dj; documentary; dolphin; donkey; dot; doubt; download; drama; drive; drop; dust; dustbin; duty; duvet; earth; economics; edge; education; effect; effort; elbow; election; embassy; emergency; employee; employer; employment; ending; enemy; engineering; enquiry; entertainment; equipment; essay; event; exchange; exchange rate; excitement; excuse; exhibition; expedition; experience; experiment; expert; explanation; extreme sports; facilities; fair; fall; fare; farming; favourite; fear; fee; feeling; ferry; festival; fever; fiction; figure; fire station; firefighter; firework; firm; flag; flood; flour; flu; flute; fly; folk; fool; forehead; fortnight; fountain; frame; freezer; friendship; frog; frying pan; fuel; full stop; fur; future; gallery; generation; ghost; giraffe; goalkeeper; goat; government; graphics; greeting; grill; groom; ground; guard; guitarist; gun; gym; gymnastics; habit; haircut; hairdresser; handkerchief; handwriting; happiness; harbour; hardware; headline; heart attack; heat; heater; heel; height; herb; hero; hole; honeymoon; hope; hostel; housework; hug; human; hunger; ice hockey; ice skating; illness; imagination; immigration; improvement; inch; indefinite article; industry; infinitive; ingredient; initial; ink; inquiry; instructor; interest; interview; invention; iron; ironing; issue; jail; jar; jogging; joke; journalist; judge; jug; jungle; kangaroo; keeper; kettle; killer; killing; kitten; knee; knowledge; lady; label; laboratory; ladder; lady; lamb; land; landscape; laugh; law; lawyer; leader; leaf; lecture; leisure; length; lie; lighter; lightning; link; lip; liquid; literature; loan; logo; lorry; lottery; love; lover; madam; marriage; material; meaning; membership; mess; message board; metal; mile; millimetre; mind; mind; minimum; mix; mixer; moment; mosquito; moustache; murder; murderer; musician; mystery; neighbourhood; nephew; niece; nightclub; nightlife; nightmare; northwest; novel; object; ocean; officer; oil; operation; opinion; opportunity; opposite; orchestra; organization; oven; owner; palace; pan; pants; paragraph; parcel; parking; parrot; password; patient; pattern; pay; pea; peace; peach; peak; peanut; pedestrian; penny; performance; performer; period; phalaxy; photocopy; phrasal verb; phrase; pie; pin; pineapple; pirate; planet; pleasure; poem; poet; poetry; point; politician; politics; pollution; population; pork; port; possibility; pot; prayer; preparation; preposition; presentation; president; priest; primary school; prince; princess; prison; prisoner; profession; professor; promise; pronoun; pronunciation; property; public transport; pullover; pump; punctuation; puppy; purpose; push; qualification; quantity; question mark; questionnaire; rail; rainforest; reception; recipe; record; recording; recycling; refund; region; registration; relation; relaxation; religion; remote control; repair; reply; report; reporter; request; rescue; research; resort; respect; result; return; reward; review; robot; role; roll; rose; row; rubbish; rug; rule; run; sailor; salary; salesman; salmon; sand;

sandal; saucer; saucer; scene; scenery; science fiction; scientist; score; sculpture; season; secondary school; secret; security; seller; sense; series; sex; shade; shadow; shape; shark; sheet; shore; shoulder; signature; silence; silk; single; sir; ski; skill; skin; sleep; sleeve; small; smile; smoke; snowboard; soap opera; social networking; society; soldier; solution; southeast; souvenir; speech; speed; spice; spider; spinach; spy; statue; stick; stone; store; strawberry; stream; strike; studio; study; style; success; suggestion; sum; sunrise; sunset; sunshine; support; supporter; sweatshirt; switch; system; tablet; talent; talk; taste; tax; teaching; technique; technology; temple; tent; thief; thought; throat; thumb; thunder; tick; tiger; tin; tip; tongue; toothpaste; tourism; tournament; tower; track; tracksuit; trade; traffic jam; training; translation; transport; travel; travel agent; trend; trouble; truck; trumpet; tube; tuna; tunnel; turkey; turn; turning; twin; uncountable; underpants; underwear; unemployment; unit; user; wage; valley; van; wardrobe; vase; waste; waterfall; wave; weather forecast; webcam; wedding; vegetarian; vehicle; weight; whale; wheelchair; video clip; wildlife; windscreen; windsurfing; wing; virus; volume; worry; worst; vote; vowel; writer; yard; yoga; youth; zone;

*Nouns belonging to language ability level B2 (701 nouns):*

abuse; accuracy; acid; addict; addition; adoption; admiration; advertising; affair; affection; agent; agreement; agriculture; aircraft; aluminium; ambassador; amusement; analysis; ancestor; anger; anxiety; apostrophe; appeal; arrest; arrow; assistance; atom; attachment; attempt; authority; availability; award; backup; badge; bakery; bang; banker; banking; bargain; barrier; basement; belief; bench; berry; bestseller; bikini; bite; blade; blame; bomber; bombing; bond; booklet; bookmark; boost; bow; bracket; brand; bravery; breakthrough; breed; brick; broadband; brother-in-law; bruise; budget; bulb; bullet; bun; burglar; burglary; calculation; campus; capacity; carbon; carbon dioxide; carbon footprint; carbon monoxide; carnival; cast; catering; cause; cell; cellar; cello; cemetery; certainty; characteristic; chart; chemical; cherry; chest; chimney; choir; citizen; civilization; claim; classic; clause; client; climate change; cloth; clothing; clue; coaching; code; coincidence; collocation; column; combination; comedian; comfort; commerce; commercial; commitment; committee; community; companion; composer; compromise; concentration; concept; concern; concrete; confidence; confirmation; confusion; consciousness; consequence; consideration; construction; consultant; consumer; container; content; contribution; convenience; cooperation; copper; corporation; corridor; costume; council; counter; county; courage; courtesy; coward; crab; craft; creation; creativity; crisis; critic; criticism; crocodile; cruelty; cure; curiosity; curve; cycle; darkness; dash; data; database; dawn; daylight; deal; debate; debit; debit card; debt; decade; deck; decline; decoration; deer; definition; delight; democracy; denim; desire; desktop; determination; determiner; device; devil; dialogue; diamond; dilemma; dimension; diplomat; disability; disagreement; disaster; discipline; disguise; dishonesty; dislike; distinction; dive; donation; dose; draft; drug; eagerness; eagle; earnings; earthquake; economist; economy; edition; efficiency; electrician; electronics; element; embarrassment; emotion; enjoyment; entertainer; enthusiasm; environment; envy; episode; equal; era; error; escalator; estate; evidence; evil; evolution; exclamation mark; exhaustion; existence; expense; explosion; export; extract; eyebrow; eyelash; eyelid; eyesight; facility; failure; faith; fancy; fantasy; fat; fate; fault; feather; feedback; female; fence; finance; fingernail; first language; fisherman; flame; flash; fluency; force; fortune; fox; freedom; frost; frustration; function; funeral; gambling; gang; gardener; gardening; gear; gender; generosity; genetics; gentleman; global warming; god; gossip; graduate; graph; grave; greatness; grief; growth; guarantee; guidance; guilt; gum; hammer; handle; handout; hard drive; harm; harmony; harvest; headquarters; heaven; hedge; hell; helmet; hip; honesty; honour; horn; host; household; human rights; humour; hunting; hyphen; icon; idiom; image; immigrant; income; independence; individual; inflation; injury; input; inspector; inspiration; institute; institution; insult; insurance; intelligence; intention; invasion; inventor; investigation; investigator; investment; investor; jaw; jewel; journalism; joy; judgment; junk food; jury; justice; kindness; landing; landlady; landlord; lane; lap; laser; launder; laundry; laziness; lead; leaflet; leak; learner; learning; lecturer; leek; leopard; liar; liberty; lid; lighting; litter; liver; living; loss; loyalty; lung; lyrics; majority; male; management; mankind; manual; manufacturer; manufacturing; marathon; marketing; martial art; mask; master; matter; mayor; measure; measurement; medal; microphone; mine; minority; miracle; misery; mist; misunderstanding; mixture; moonlight; motivation; motive; motor; motorist; mud; muscle; musical; myth; nation; native speaker; navy; need; nerves; network; nonsense; novelist; nuisance; oak; obligation; observation; opening; origin; overtime; owl; oxygen; pace; pack; pancake; panic; parachute; parade; parliament; partnership; passage; patience; pause; paw; payment; penalty; pension; percentage; personality; pharmacist; philosopher; philosophy; pine; pint; pitch; pity; planning; plot; plumber; poison; polar bear; policy; politeness; pond; popularity; portrait; possession; potential; pottery; poverty; prawn; prediction; preference; prefix; prejudice; presenter; presidency; pressure; prevention; pride; prime minister; principal; priority; privacy; procedure; production; professional; proof; proposal; protection; protest; psychologist; psychology; publication; publicity; publisher; pudding; punishment; quarrel; query; quiet; racism; rage; rainbow; rape; rate; razor; reach; reality; rebel; recession; recovery; recreation; referee; reference; reflection; refuge; regulation; rehearsal; relief; remains; remark; remedy; reputation; requirement; researcher; reserve; resident; resource; response; responsibility; retirement; revenge; revolution; rhythm; rib; rise; risk; robbery; rocket; roommate; root; rope; rumour; rush hour; sadness; safety; satellite; savings; scandal; scar; scent; scratch; seed; selection; self-confidence; semicolon; seminar; sensation; servant; setting; shed; shooting; shopkeeper; shot; sickness; signal; sister-in-law; skeleton; slave; slope; smoker; soil; soundtrack; source; specialist; species; spirit; spread; spreadsheet; stain; standard; state; statistics; steam; steel; steering wheel; stepmother; stock; store; strategy; strength; string; stroke; structure; suburb; suffering; suffix; suicide; sunlight; supplier; surface; surgery; surroundings; survey; survival; suspect; swan; sweat; sword; syllable; symbol; sympathy; symptom; tail; target; task; teaspoon; telecommunications; telescope; temper; temptation; terminal; terms; terrace; terror; terrorism; terrorist; theft; theme; theory; therapy; thermometer; thesis; thigh; thirst; threat; tide; timing; toenail; tomb; ton; tone; tool; torch; tornado; touch; trace; tradition; tragedy; trail; tray; treasure; treatment; trekking; trial; triangle; tribe; trophy; truth; try; tutor; understanding; unhappiness; upgrade; waist; ward; warmth; wasp; weakness; wealth; weapon; welfare; verse; wheat; whisky; whistle; victory; widow; width; will; willingness; vinegar; violence; wire; virtual reality; wisdom; wish; vision; vitamin; witness; volcano; wolf; volunteer; worm; wound; voyage; wrist; x-ray; yacht; zebra;

*Nouns belonging to language ability level C1 (315 nouns):*

abortion; acceptance; adaptation; administration; aggression; aid; allegation; allowance; amateur; amendment; angle; annoyance; appetite; applause; archaeologist; archaeology; asset; assumption; assurance; auction; audition; awareness; bacteria; beak; blindness; boundary; brass; bribe; bronze; campaign; carriage; cholesterol; clutch; coal; collaboration; commodity; competence; complex; component; consent; constitution; consumption; contestant; controversy; corruption; coverage; cultivation; daycare; dedication; deficiency; delegate; density; deodorant; destiny; diesel; digestion; discomfort; discrimination; disorder; disrespect; disruption; dissertation; distraction; distress; draught; drawback; dump; duration; ecology; effectiveness; elegance; elite; emission; emperor; empire; enterprise; environmentalist; equation; erosion; establishment; evaluation; exaggeration; exhaust; exhibit; expenses; exploration; exposure; extinction; fabric; fairness; feast; fibre; formula; friction; fright; fund; funding; gadget; gain; garment; gene; generalization; genius; geology; gerund; gesture; globalization; greed; habitat; harassment; hate; hatred; hazard; heading; health care; historian; hospitality; housing; humanity; hygiene; iceberg; illustration; import; indication; industrialization; infrastructure; injustice; innocence; innovation; insight; inspection; installation; interaction; isolation; itinerary; jargon; jealousy; joint; journal; junk; knob; labour; landmark; launch; lawn; leadership; liability; limitation; literacy; log; logic; loneliness; lounge; machinery; magistrate; mammal; mansion; mat; mechanism; miner; mining; mode; move; nap; necessity; neglect; negotiation; nervousness; networking; newsletter; nickname; nomination; nutrition; obesity; obstacle; occurrence; odds; organ; overdraft; ownership; ozone; panel; paradise; pastry; peasant; pensioner; perfection; personnel; phenomenon; pony; praise; predator; pregnancy; premises; principle; privilege; probability; productivity; programmer; progression; proposition; prosperity; prostitute; protein; provider; pulse; pyramid; radiation; rating; ratio; rebellion; recruitment; rectangle; redevelopment; register; reign; relevance; renovation; reproduction; reptile; republic; restriction; retail; revenue; richness; riot; rival; role model; rudeness; runway; sack; sacrifice; saint; saving; scholar; sector; self; self-esteem; selfishness; sequence; serial; setback; sewing; shame; shuttle; shyness; side effect; simplicity; simulation; slang; slavery; slogan; slot; smog; socialist; solicitor; solidarity; solitude; spam; specification; spectrum; speculation; sphere; spokesman; spokesperson; sponsorship; staircase; stand; statistic; status; status symbol; stereotype; stock market; stocking; straw; stretch; strip; subsidy; subtitles; successor; summit; supervision; supervisor; surgeon; takeover; tank; teamwork; technician; techno; telly; therapist; tobacco; torture; trainee; transportation; trek; tuition; turnover; uncertainty; usage; walker; warrior; vegetation; veil; vein; well-being; vest; win; vine; wit; witch; workforce; workplace; workshop; youngster;

*Nouns belonging to language ability level C2 (0 nouns):*

No nouns.

Unique nouns in unique Wikipedia hyperlinks connecting unique nouns for observed vocabulary of A1&A2&B1&B2&C1&C2 (i.e. when range of language ability levels reached so far is A1–C2)

*Alltogether 2878 nouns with the following subdivision.*

*Nouns belonging to language ability level A1 (283 nouns):*

adult; afternoon; age; animal; answer; apple; april; arm; august; baby; bag; ball; banana; band; bank; basketball; bathroom; beach; beard; bed; bedroom; beer; bird; birthday; biscuit; board; boat; body; book; bottom; box; boy; bread; breakfast; brother; bus; business; butter; café; cake; camera; car; cat; cd; cd player; chair; cheese; child; chip; chocolate; city; class; classroom; clock; clothes; coat; coffee; colour; computer; conversation; country; course; cow; credit card; cross; cup; dad; dance; dancing; daughter; day; december; desk; dictionary; dining room; dinner; doctor; dog; doll; dollar; door; dress; drink; dvd; ear; email; end; evening; eye; face; factory; family; farm; father; february; film; fish; flat; floor; flower; food; foot; football; friday; friend; fruit; fun; game; garden; girl; glass; glasses; grass; group; guitar; hair; hand; hat; head; holiday; home; homework; horse; hospital; hotel; hour; house; husband; ice cream; jacket; january; jeans; juice; july; june; key; kind; kitchen; knife; language; leg; lesson; letter; life; living room; lunch; man; march; may; meal; meat; message; milk; minute; miss; mobile; mobile phone; monday; money; month; morning; mother; mouth; movie; mr; mrs; mum; museum; music; name; nationality; newspaper; night; noise; nose; note; november; number; october; page; paint; pair; paper; parent; park; part; party; pen; pencil; people; person; pet; phone; photo; picnic; picture; pig; pizza; place; plant; player; potato; problem; question; radio; rain; reading; restaurant; rice; river; road; room; salt; sandwich; saturday; school; sea; september; sheep; shirt; shoe; shop; shopping; shower; sister; skirt; smoking; snow; son; soup; sport; station; stop; street; student; sugar; summer; sun; sunday; supermarket; swimming pool; tea; teacher; television; tennis; test; the internet; thursday; time; today; toilet; tomato; tooth; twin; train; tree; trousers; t-shirt; tuesday; tv; university; waiter; wall; watch; water; weather; website; wednesday; week; weekend; vegetable; wife; village; wind; window; wine; winter; woman; word; world; writing; year; zoo;

*Nouns belonging to language ability level A2 (483 nouns):*

accident; actor; adjective; adventure; adverb; advertisement; advice; aeroplane; air; airport; alarm clock; album; alcohol; ambulance; apartment; appointment; area; art; artist; aunt; autumn; back; badminton; balloon; barbecue; baseball; bat; bean; bear; bicycle; bike; bill; biology; bit; black; blackboard; blanket; blood; blue; board game; bookcase; bookshelf; boot; boss; bottle; bowl; boyfriend; brain; break; bridge; brown; brick; building; bus station; bus stop; calendar; camping; can; cap; capital; capital letter; car park; carpet; carrot; cartoon; case; cash; castle; cathedral; ceiling; cent; centimetre; century; cereal; chain; champagne; change; channel; chat; chef; chemist; chemistry; cheque; chess; chicken; church; cigarette; circle; cleaner; click; climbing; cloud; clown; club; coach; cola; cold; colleague; college; comb; comic; company; comparative; competition; concert; cook; cooking; cost; cousin; cream; cricket; crowd; cupboard; curly; curtain; customer; cycling; dancer; danger; degree; dentist; department; department store; desert; dessert; diary; digital camera; dinosaur; diploma; directions; disco; document; drawer; drawing; dream; drum; duck; earring; east; electricity; elephant; engine; engineer; entrance; envelope; euro; exam; examination; exercise; exit; fact; farmer; fashion; fast food; field; finger; fire; fishing; flight; fog; forest; fork; form; furniture; garlic; gas; gate; geography; gift; girlfriend; glove; goal; gold; golf; gram; grammar; grandchild; granddad; granddaughter; grandchild; grandma; grandmother; grandpa; grandparent; grandson; granny; grape; green; grey; guest; guide; hall; ham; handbag; headcase; health; heart; heating; helicopter; help; hill; hip-hop; history; hobby; hockey; honey; housewife; ice; id card; idea; information; insect; instrument; island; jam; jazz; jewellery; journey; jumper; kick; kilo; kilogram; kilometre; king; kiss; kit; kite; lake; laptop; leather; lemon; lemonade; level; library; light; line; lion; litre; luck; luggage; lunchtime; machine; magazine; magic; mail; main course; make-up; manager; mango; map; mark; market; match; mechanic; medicine; meeting; melon; member; memory; menu; metre; midday; midnight; mineral water; mirror; model; monkey; mosque; motorway; mountain; mouse; mp3 player; mug; mushroom; nature; neck; necklace; news; noon; north; notebook; notice; noun; nurse; occupation; office; oil; omelette; onion; opera; order; pain; painter; painting; partner; passenger; passport; pasta; pc; pear; pence; perfume; petrol; petrol station; photograph; photographer; photography; physics; piano; piece; pillow; pink; plan; plastic; playground; plural; pocket; police; police officer; police station;

policeman; policewoman; pool; pop; post; post office; postcard; poster; present; price; prize; program; programme; project; pub; pupil; purple; purse; puzzle; quiz; rabbit; railway; raincoat; rat; reason; receipt; receptionist; red; rest; right; rock; roof; roundabout; rubber; rugby; ruler; runner; running; sailing; salad; sauce; sausage; scarf; schoolchild; science; scissors; screen; seat; second; secretary; set; shampoo; ship; shorts; show; side; sightseeing; sign; silver; singer; singing; singular; sink; site; sitting room; size; skate; skateboard; skateboarding; skating; skiing; sky; snack; snake; snowboarding; soap; sock; soft drink; software; song; soul; sound; south; space; spelling; spoon; square; stadium; staff; stage; stairs; star; steak; stomach; storm; story; suitcase; sunglasses; superlative; supper; surfing; surname; sweater; sweet; sweets; table tennis; team; teenager; telephone; temperature; term; text; text message; textbook; theatre; thunderstorm; tights; timetable; toast; toe; toothache; toothbrush; top; tour; tour guide; tourist; towel; toy; traffic; traffic light; tram; trip; tune; type; umbrella; uncle; uniform; walk; walking; wallet; war; washing machine; way; web page; weekday; verb; west; wheel; white; video; video game; view; winner; violin; vocabulary; volleyball; wood; wool; worker; yellow; yogurt;

**Nouns belonging to language ability level B1 (706 nouns):**

ability; accent; account; accountant; ache; act; action; ad; advantage; advert; air conditioning; air force; airline; alarm; alphabet; amount; angel; animation; ankle; anniversary; ant; antique; application; architect; architecture; argument; arrangement; aspirin; athletics; atmosphere; attention; audience; author; average; background; backpack; backpacker; backpacking; bacon; baggage; baker; balcony; ballet; bandage; bank account; barber; basket; battle; bay; beauty; bee; beef; behaviour; benefit; bin; biography; birth; blog; blogger; bomb; bone; booking; border; boxing; bracelet; brake; branch; breast; breath; breeze; bride; broccoli; brochure; bucket; bug; bull; bunch; butcher; butterfly; button; buyer; cabbage; cabin; cable; calculator; calf; camel; camp; campsite; canal; cancer; candidate; candle; captain; care; career; cattle; cave; cd-rom; celebration; celebrity; central heating; ceremony; challenge; champion; championship; chance; charge; check; cheek; chest of drawers; chewing gum; childhood; chin; choice; circus; cliff; climate; clinic; coast; coconut; cod; coin; collar; collection; comedy; comma; comment; common sense; communication; competitor; complaint; conclusion; conference; consonant; contents; contest; continent; contract; corn; correction; cottage; cotton; cough; count; courgette; court; crash; creature; credit; crew; crime; criminal; crop; cucumber; culture; currency; curriculum; cushion; custom; customs; cut; cv; cyclist; damage; death; decision; defeat; definite article; delivery; demand; description; design; designer; destination; detail; detective; diagram; did; difficulty; direction; dirt; disadvantage; disappointment; disc; disc jockey; discussion; disease; dishwasher; disk; distance; district; driver; diving; divorce; dj; documentary; dolphin; donkey; dot; doubt; download; drama; drive; drop; dust; dustbin; duty; duvet; earth; economics; edge; education; effect; effort; elbow; election; embassy; emergency; employee; employer; employment; ending; enemy; energy; engineering; enquiry; entertainment; equipment; essay; event; exchange; exchange rate; excitement; excuse; exhibition; expedition; experience; experiment; expert; explanation; extreme sports; facilities; fair; fall; fare; farming; favourite; fear; fee; feeling; ferry; festival; fever; fiction; fight; figure; fire station; firefighter; firework; firm; flag; flood; flour; flu; flute; fly; folk; tool; forehead; fortnight; fountain; frame; freezer; friendship; frog; frying pan; fuel; full stop; fur; future; gallery; generation; ghost; giraffe; goalkeeper; goat; government; graphics; greeting; grill; groom; ground; guard; guitarist; gun; gym; gymnastics; habit; haircut; hairdresser; handkerchief; handwriting; happiness; harbour; hardware; headline; heart attack; heat; heater; heel; height; herb; hero; hole; honeymoon; hope; hostel; housework; hug; human; hunger; ice hockey; ice skating; illness; imagination; immigration; importance; improvement; inch; indefinite article; industry; infinitive; ingredient; ink; inquiry; instructor; interest; interview; iron; ironing; issue; jail; jar; jogging; joke; journalist; judge; jug; jump; jungle; kangaroo; keeper; kettle; killer; killing; kitten; knee; knowledge; lab; label; laboratory; ladder; lady; lamb; land; landscape; laugh; law; lawyer; leader; leaf; lecture; leisure; length; lettuce; lie; lighter; lightning; link; lip; liquid; literature; loan; logo; lorry; lottery; love; lover; madam; marriage; material; meaning; membership; mess; message board; metal; mile; millimetre; mind; minimum; mix; monster; monument; mosquito; moustache; murder; murderer; musician; mystery; neighbourhood; nephew; niece; nightclub; nightlife; northeast; northwest; novel; object; ocean; officer; olive; operation; opinion; opportunity; opposide; orchestra; organization; oven; owner; palace; pan; pants; paragraph; parcel; parking; parrot; password; patient; pattern; pay; pea; pease; peach; peak; peanut; pedestrian; penny; performance; performer; period; pharmacy; photocopy; phrasal verb; phrase; pie; pin; pineapple; pirate; planet; pleasure; poem; poet; poetry; point; politician; politics; pollution; population; pork; port; possibility; pot; prayer; preparation; preposition; presentation; president; priest; primary school; prince; princess; prison; prisoner; profession; professor; promise; pronoun; pronunciation; property; public transport; pullover; pump; punctuation; puppy; purpose; push; qualification; quantity; question mark; questionnaire; rail; rainforest; reception; recipe; record; recording; recycling; refund; region; registration; relation; relaxation; religion; remote control; repair; reply; report; reporter; request; rescue; research; resort; respect; result; return; reward; review; robot; role; roll; rose; row; rubbish; rug; rule; run; sailor; salary; salesman; salmon; sand; sandal; saucerpan; saucer; scene; scenery; science fiction; scientist; score; sculpture; season; secondary school; secret; security; seller; sense; series; sex; shade; shadow; shape; shark; sheet; shore; shoulder; signature; signpost; silence; silk; single; sir; ski; skill; skin; sleep; sleeve; smell; smile; smoke; snowboard; soap opera; social networking; society; soldier; solution; southeast; souvenir; speech; speed; spice; spider; spinach; spy; stall; statue; step; stick; stone; store; strawberry; stream; strike; studio; study; style; success; suggestion; sum; sunrise; sunset; sunshine; support; supporter; sweatshirt; switch; system; tablet; talent; talk; taste; tax; teaching; technique; technology; temple; tent; thief; thought; throat; thumb; thunder; tick; tiger; tin; tip; title; tongue; toothpaste; tourism; tournament; tower; track; truck; trade; traffic jam; training; translation; transport; travel; travel agent; trend; trouble; truck; trumpet; tube; tuna; tunnel; tube; turn; turning; twin; uncountable; underpants; underwear; unemployment; union; unit; user; wage; valley; van; wardrobe; vase; waste; waterfall; wave; weather forecast; webcam; wedding; vegetarian; vehicle; weight; vet; whale; wheelchair; video clip; wildlife; windscreens; windsurfing; wing; virus; volume; worry; worst; vote; vowel; writer; yard; yoga; youth; zone;

**Nouns belonging to language ability level B2 (718 nouns):**

abuse; accuracy; acid; addict; addiction; addition; admiration; adoption; advertising; affair; affection; agent; agreement; agriculture; aircraft; aluminium; ambassador; amusement; analysis; ancestor; anger; anxiety; apostrophe; appeal; arrest; arrow; assistance; atom; attachment; attempt; authority; availability; award; backup; badge; bakery; bank; banker; banking; bargain; barrier; basement; belief; bench; berry; bestseller; bikini; bite; blade; blame; bomber; bombing; bond; booklet; bookmark; boost; bow; bracket; brand; bravery; breakthrough; breed; brick; broadband; brother-in-law; bruise; budget; bulb; bullet; bun; burglar; burglary; calculation; campus; capacity; carbon; carbon dioxide; carbon footprint; carbon monoxide; carelessness; carnival; cast; catering; cause; cell; cellar; cello; cemetery; certainty; characteristic; charm; chart; chemical; cherry; chest; chimney; choir; citizen; civilization; claim; classic; clause; client; climate change; cloth; clothing; clue; coaching; code; coincidence; collocation; column; combination; comedian; comfort; commerce; commercial; commitment; committee; community; companion; composer; compromise; concentration; concept; concern; concrete; confession; confidence; confirmation; conflict; confusion; consciousness; consequence; conservation; consideration; construction; consultant; consumer; container; content; contribution; control; convenience; cooperation; copper; corporation; corridor; costume; council; counter; courage; courtesy; coward; crab; craft; creation; creativity; crisis; critic; criticism; crocodile; cruelty; cure; curiosity; curve; cycle; darkness; dash; data; database; dawn; daylight; deal; debate; debit; debit card; debt; decade; deck; decline; decoration; deer; definition; delight; democracy; denim; desire; desktop; determination; determiner; device; devil; dialogue; diamond; dilemma; dimension; diplomat; disability; disagreement; disaster; discipline; disguise; dishonesty; dislike; distinction; dive; donation; dose; draft; drug; eagerness; eagle; earnings; earthquake; economist; economy; edition; efficiency; electrician; electronics; element; embarrassment; emotion; enjoyment; entertainer; enthusiasm; environment; envy; episode; equal; era; error; escalator; estate; evidence; evil; evolution; exclamation mark; exhaustion; existence; expense; explosion; export; extract; eyebrow; eyelash; eyelid; eyesight; facility; failure; faith; fame; fantasy; fat; fate; fault; feather; feedback; female; fence; fighting; finance; fingernail; first language; fisherman; flame; flash; fluency; force; fortune; fox; freedom; frost; frustration; function; funeral; gambling; gang; gardener; gardening; gear; gender; generosity; genetics; gentleman; global warming; god; gossip; graduate; graph; grave; greatness; grief; growth; guarantee; guidance; guilt; gun; hammer; hand; handout; hard drive; harm; harmony; harvest; headquarters; heaven; hedge; hell; helmet; hip; hold; honesty; honour; horn; host; household; human rights; humour; hunting; hyphen; icon; identity; idiom; idiot; image; immigrant; income; independence; individual; infection; inflation; injury; input; inspector; inspiration; institute; institution; insult; insurance; intelligence; intention; invasion; inventor; investigation; investigator; investment; investor; jaw; jewel; journalism; joy; judgment; junk food; jury; justice; kindness; kingdom; landing; landlady; landlord; lanes; lap; laser; laughter; laundry; laziness; lead; leaflet; leak; learner; learning; lecturer; leek; legend; leopard; liar; liberty; lid; lighting; litter; liver; living; load; loaf; loss; loyalty; lung; lyrics; majority; male; management; mankind; manual; manufacturer; manufacturing; marathon; marketing; martial art; mask; master; matter; mayor; measure; measurement; medal; mention; microphone; mine; minority; miracle; misery; mist; misunderstanding; mixture; moonlight; motivation; motive; motor; motorist; mud; muscle; musical; myth; nation; native speaker; navy; need; nerves; network; nonsense; novelist; nuisance; oak; obligation; observation; opening; origin; overtime; owl; oxygen; pace; pack; pancake; pane; pant; parachute; parade; parliament; partnership; passage; patience; pause; paw; payment; penalty; pension; percentage; personality; pharmacist; philosopher; philosophy; pine; pint; pitch; pity; planning; plot; plumber; poison; polar bear; policy; politeness; pond; popularity; portrait; possession; potential; pottery; poverty; prawn; prediction; preference; prefix; prejudice; presenter; presidency; pressure; prevention; pride; prime minister; principal; priority; privacy; procedure; production; professional; proof; proposal; protection; protest; psychologist; psychology; publication; publicity; publisher; pudding; punishment; quarrel; query; quiet; racism; rage; rainbow; rape; rate; razor; reach; reality; rebel; recession; recovery; recreation; referee; reference; reflection; refugee; regulation; rehearsal; relief; remains; remark; remedy; reputation; requirement; researcher; reserve; resident; resource; response; responsibility; retirement; revenge; revolution; rhythm; rib; rise; risk; robbery; rocket; roommate; root; rope; rumour; rush hour; sadness; safety; satellite; savings; scandal; scar; scent; scratch; seed; selection; self-confidence; semicolon; seminar; sensation; servant; setting; shed; shelter; shooting; shopkeeper; shot; sickness; signal; similarity; sister-in-law; skeleton; slave; slope; smoker; soil; soundtrack; source; specialist; species; spirit; spread; spreadsheet; stain; standard; state; statistics; steam; steel; steering wheel; stepmother; stock; storage; storey; strategy; strength; string; stroke; structure; substance; suburb; suffering; suffix; suicide; sunlight; supplier; surface; surgery; surroundings; survey; survival; suspect; swan; sweat; sword; syllable; symbol; sympathy; symptom; tail; tale; target; task; teaspoon; telecommunications; telescope; temper; temptation; tension; terminal; terms; terrace; terror; terrorism; terrorist; theft; theme; theory; therapy; thermometer; thesis; thigh; thirst; threat; tide; timing; toenal; tomb; ton; tone; tool; torch; tornado; trace; track; tradition; tragedy; trail; tray; treasure; treatment; trekking; trial; triangle; tribe; trophy; truth; try; tutor; understanding; unhappiness; upgrade; waist; ward; warmth; wasp; weakness; wealth; weapon; welfare; verse; wheat; whisky; whistle; victory; widow; width; will; willingness; vinegar; violence; wire; virtual reality; wisdom; wish; vision; vitamin; witness; volcano; wolf; volunteer; worm; wound; voyage; wrist; x-ray; yacht; zebra;

**Nouns belonging to language ability level C1 (328 nouns):**

abortion; acceptance; adaptation; administration; aggression; aid; allegation; allowance; amateur; amendment; angle; annoyance; appetite; applause; archaeologist; archaeology; asset; assumption; assurance; auction; audition; awareness; bacteria; beak; blindness; boundary; brass; bribe; bronze; campaign; carriage; cholesterol; clutch; coal; collaboration; commodity; competence; complex; component; consent; constitution; consumption; contestant; controversy; convention; corruption; coverage; cultivation; daycare; dedication; deficiency; delegate; density; deodorant; deputy; destiny; diesel; digestion; discomfort; discrimination; disorder; disrespect; disruption; dissertation; distraction; distress; draught; drawback; dump; duration; ecology; effectiveness; elegance; elite; emission; emperor; empire; enterprise; environmentalist; equation; erosion; establishment; evaluation; exaggeration; exhaust; exhibit; expenses; exploration; exposure; extinction; fabric; fairness; feast; fibre; formula; friction; fright; fund; funding; gadget; gain; garment; gene; generalization; genius; geology; gerund; gesture; globalization; greed; habitat; harassment; hate; hatred; hazard; heading; health care; historian; hospitality; housing; humanity; hygiene; itebarg; idol; illustration; import; indication; industrialization; infrastructure; initiative; injustice; innocence; innovation; insight; inspection; installation; integration; interaction; isolation; itinerary; jargon; jealousy; joint; journal; junk; knob; labour; landmark; launch; lawn; leadership; liability; limitation; literacy; log; logic; loneliness; lounge; machinery; magistrate; mammal; mansion; mat; mechanism; miner; mining; mode; move; nap; necessity; neglect; negotiation; nervousness; networking; newsletter; nickname; nomination; nutrition; obesity; obstacle; occurrence; odds; optimist; organ; overdraft; ownership; ozone; panel; paradise; pastry; peasant; pensioner; perfection; perfection; phenomenon; pony; praise; predator; pregnancy; premises; preservation; principle; privilege; probability; productivity; programmer; progression; proposition; prosperity; prostitute; protein; provider; pulse; purity; pyramid; radiation; rank; rating; ratio; rebellion; recruitment; rectangle; redevelopment; register; reign; relevance; renovation; reproduction; reptile; republican; restriction; retail; revenue; richness; rival; riot; role model; rudeness; runway; sack; sacrifice; saint; saving; scholar; scholarship; sector; self; self-esteem; selfishness; sequence; serial; setback; sewing; shame; shuttle; shyness; side effect; simplicity; simulation; slang; slaving; slogan; slud; smog; socialist; solicitor; solidarity; solitude; spam; specification; spectrum; speculation; sphere; spokesman; spokesperson; sponsorship; staircase; stamina; stand; statistic; status; status symbol; stereotype; stock market; stocking; straw; stretch; strip; subsidy; subtitles; successor; summit; superior; supervision; supervisor; surgeon; takeover; tank; teamwork; technician; techno; telly; therapist; tobacco; torture; trainee; transportation; trek; tuition; turnover; uncertainty; unity; usage; walker; warrior; vegetation; veil; vein; well-being; vest; win; wine; wit; witch; workforce; workplace; workshop; youngster;

*Nouns belonging to language ability level C2 (360 nouns):*

acre; adolescent; advocate; alcoholic; alliance; ambiguity; analogy; anchor; antibiotic; arch; army; artificial intelligence; aspiration; assault; assembly; astronomy; attribute; awe; bark; barn; bet; bias; blackmail; blend; blister; bribery; bureaucracy; burial; capitalism; cargo; casserole; casualty; catastrophe; chancellor; chapel; charisma; cheerfulness; chill; circulation; civilian; clash; cliché; coastline; coldness; combat; comeback; commander; complexion; complexity; conception; confrontation; conscience; consensus; contempt; contraception; contraceptive; contradiction; conversion; conviction; cookie; coral; core; corpse; coup; crack; crackdown; credibility; crystal; cutlery; deception; delegation; denial; deprivation; descendant; desperation; diagnosis; dialect; dice; dignity; diplomacy; discretion; disgust; disposable income; disposition; dispute; dna; dominance; donor; doom; doorway; drought; echo; embrace; empathy; endurance; entity; essence; exile; expenditure; explosive; fake; famine; fireplace; fist; flesh; fluid; follower; forgery; forgiveness; fragrance; fraud; frenzy; frontier; frown; gamble; glue; goodness; grain; grasp; grin; hail; heir; heritage; hesitation; hierarchy; homelessness; horizon; hostage; hostility; humility; hypocrisy; hypothesis; ignorance; illusion; imitation; immune system; impatience; implementation; impossibility; imprisonment; incentive; inclination; individuality; infancy; infant; inheritance; insecurity; insomnia; instinct; instruction; integrity; intellect; intellectual; intensity; intent; interpretation; intervention; intruder; intrusion; irony; irritation; kidney; knot; knuckle; legislation; likelihood; linen; loathing; local; loft; longevity; massacre; masterpiece; materialism; materialist; medication; melody; memorial; mercy; merger; metaphor; millennium; missile; momentum; monopoly; morale; mortality; motion; narrative; narrator; negligence; nerve; nest; nostalgia; nostril; novelty; observer; official; offspring; omission; openness; optimism; ordeal; ornament; orphan; outbreak; output; pact; paradigm; paradox; parallel; particle; pastime; patch; peer pressure; perception; persistence; persuasion; plea; pole; precedent; presumption; prey; proceedings; procession; produce; propaganda; prosecution; prosecutor; protagonist; proverb; province; proximity; psychiatrist; quest; quotation; quote; racist; raid; rash; realm; reasoning; recognition; recollection; recruit; referendum; reform; refuge; regime; relish; remorse; representation; resemblance; resentment; residence; resignation; resilience; resistance; resolution; restraint; retailer; retreat; revelation; reversal; rhyme; ribbon; riches; ritual; rivalry; round; ruling; saddle; sail; saying; scarcity; scenario; schooling; scrap; self-assurance; self-awareness; self-control; self-discipline; self-respect; sensibility; sentiment; shield; sibling; simplification; sin; sincerity; siren; skull; slap; slaughter; snob; socialism; sorrow; spade; spark; spite; spouse; squad; stable; starvation; stimulus; strand; strap; stupidity; sufferer; superiority; suspense; sustainability; syllabus; synonym; talks; taxpayer; tenderness; thinker; threshold; throne; timber; toddler; toughness; tractor; trait; tranquility; trash; treat; treaty; tribute; trilogy; troops; undertaking; unrest; vaccination; vaccine; validity; vandalism; vanity; warehouse; weed; velvet; verdict; veteran; whim; vice; wilderness; villager; willpower; virgin; virtue; vitality; withdrawal; vocation; woodland; workaholic; worship; vow; wrinkle; xenophobia;

## **Appendixes**

We provide here in Appendixes A–AN a collection of experimentally gathered data and full listings of generated rankings concerning doctoral dissertation.

(empty on purpose)

## Appendix A

This doctoral dissertation is based on following eleven publications [P1]-[P11] which have been published in peer-reviewed conference proceedings and in one journal between years 2009-2014, each supplied here with a short description.

**P1:** Lahti, L. (2009a). Assistive tool for collaborative learning of conceptual structures. Proc. 13th Human Computer Interaction International 2009, Part III (Universal Access in Human-Computer Interaction – Applications and Services), 19-24 July 2009, San Diego, CA, USA (ed. Stephanidis, C.). LNCS 5616, Springer, 53-62. Print ISBN 978-3-642-02712-3 and Online ISBN 978-3-642-02713-0. [http://link.springer.com/chapter/10.1007/978-3-642-02713-0\\_6](http://link.springer.com/chapter/10.1007/978-3-642-02713-0_6)

In this publication we propose a new collaborative scheme to assist learning conceptual structures in a collaborative Web environment. We have implemented a prototype enabling collaborative ideation to build shared concept maps representing conceptualization of learners. We suggest supporting different collaborator roles to address personal needs of each learner participating in collaboration. We propose combining role-driven text-based parallel individual discussion chains that are illustrated cumulatively in a collaboratively agreed concept map.

Discussed in Chapter 4.

**P2:** Lahti, L. (2009b). Guided generation of pedagogical concept maps from the Wikipedia. Proc. World Conference on E-Learning in Corporate, Government, Healthcare and Higher Education (E-Learn 2009). 26-30 October 2009, Vancouver, B.C., Canada (eds. Bastiaens, T. et al.). Association for the Advancement of Computing in Education (AACE), Chesapeake, Virginia, USA, 1741-1750. ISBN 1-880094-76-2. <http://www.editlib.org/p/32712>

In this publication we propose a new method for guided generation of concept maps from open access online knowledge from the Wikipedia online encyclopedia. Our method extracts semantic relations from sentences surrounding hyperlinks in the Wikipedia's articles and lets a learner to create customized learning objects in real-time based on collaborative recommendations considering her earlier knowledge.

Discussed in Chapter 5.

**P3:** Lahti, L. (2010a). Personalized learning paths based on Wikipedia article statistics. Proc. 2nd International Conference on Computer Supported Education (CSEDU 2010), 7–10 April 2010, Valencia, Spain (eds. Cordeiro, J. et al.), Vol. 1, 110-120. SciTePress, Institute for Systems and Technologies of Information, Control and Communication (INSTICC). ISBN 978-989-674-023-8. <http://dx.doi.org/10.5220/0002800901100120>

In this publication we propose a new semi-automated method for generating personalized learning paths from the Wikipedia online encyclopedia by following inter-article hyperlink chains based on various rankings that are retrieved from the statistics of the articles. Alternative perspectives for learning topics are achieved based on hierarchy of hyperlinks, repetition of hyperlink terms, article size, viewing rate, editing rate, or user-defined weighted mixture of them all enabling the learner to build independently concept maps following her needs and consideration.

Discussed in Chapter 6.

**P4:** Lahti, L. (2010b). Educational tool based on topology and evolution of hyperlinks in the Wikipedia. Proc. 10th IEEE International Conference on Advanced Learning Technologies (ICALT 2010), 5–7 July 2010, Sousse, Tunisia (eds. Jemni, M. et al.), 233-235. ISBN 978-0-7695-4055-9 and ISBN 978-1-4244-7144-7. [http://ieeexplore.ieee.org/xpls/abs\\_all.jsp?arnumber=5571281](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5571281)

In this publication we propose a new method to support educational exploration in the hyperlink network of the Wikipedia online encyclopedia. This extends the method introduced in publication P3 in respect to three important new features: the learner can simultaneously operate with parallel



ranking lists of hyperlinks, the concept map construction emphasizes building diversely branching structures, and different consecutive temporal versions of Wikipedia articles can be browsed. Discussed in Chapter 7.

**P5:** Lahti, L. (2011a). ConceptMapWiki – a collaborative framework for agglomerating pedagogical knowledge. Proc. 11th IEEE International Conference on Advanced Learning Technologies (ICALT 2011), 6–8 July 2010, Athens, Georgia, USA (eds. Aedo, I. et al.), 163-165. Online ISBN 978-0-7695-4346-8 and Print ISBN 978-1-61284-209-7. [http://ieeexplore.ieee.org/xpls/abs\\_all.jsp?arnumber=5992312](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5992312)

In this publication we propose a new educational framework, ConceptMapWiki, that is a wiki representing pedagogical knowledge with a collection of concept maps which is collaboratively created, edited and browsed. The learners and educators provide complementing contribution to evolving shared knowledge structures stored supplied with time stamps and a user profile enabling to analyze maturing of knowledge according to various learner-driven criteria. Pedagogically motivated learning paths can be collaboratively defined and evaluated, and educational games can be incorporated based on browsing and editing concept maps.

Discussed in Chapter 8.

**P6:** Lahti, L. (2011b). Educational concept mapping method based on high-frequency words and Wikipedia linkage. Proc. 4th International Conference on Internet Technologies and Applications (ITA11), 6–9 September 2011, Wrexham, North Wales, UK (eds. Grout, V. et al.). Glyndwr University, Wrexham, Wales, UK. ISBN 978-0-946881-68-0. <http://www.ita11.org/papers.html>; <http://www.ita11.org/detailedProgramme.html>; <http://www.lulu.com/shop/vic-grout-and-stuart-cunningham-and-denise-oram-and-rich-picking/proceedings-of-the-fourth-international-conference-on-internet-technologies-and-applications-ita-11/ebook/product-17431522.html>

In this publication we propose a new computational method to support the learner's knowledge adoption based on concept mapping relying on three perspectives: learner's knowledge, learning context and learning objective. Each perspective is represented by a learning concept network that is generated based on a set of high-frequency words from a representative text sample that are connected based on the shortest hyperlink chains between corresponding Wikipedia articles. The learner explores ranking-based routings connecting learning concept networks by expanding a concept map.

Discussed in Chapter 9.

**P7:** Lahti, L. (2012). Educational framework for adoption of vocabulary based on Wikipedia linkage and spaced learning. Proc. Global Learn 2012: Global Conference on Learning and Technology, online conference on 6 November 2012 (eds. Bastiaens, T., & Marks, G.), pp. 8-13. Association for the Advancement of Computing in Education (AACE). ISBN 1-880094-99-1. <http://www.editlib.org/p/42033/>

In this publication we propose a new educational framework relying on pedagogic conceptual network generated by linking the most essential concepts of learning topic based on the shortest connecting paths in hyperlink network of Wikipedia encyclopedia assisted with Wiktionary dictionary. To adopt vocabulary the learner traverses links of pedagogic conceptual network along learning path generated by method in sequential process having tailored variation and repetition computed based on theory of spaced learning. The learning path is shown to learner as sequence of compact relation statements extracted from sentences surrounding hyperlinks in Wikipedia articles, supplied with set of visualizations based on main verb identified in them.

Discussed in Chapter 12, starting from Subchapter 12.1.

**P8:** Lahti, L. (2013). Educational framework based on cumulative vocabularies, conceptual networks and Wikipedia linkage. Proc. London International Conference on Education (LICE 2013). 4-6 November 2013, London, UK (lisää toimittajat). ISBN 978-1-908320-16-2.

In this publication we propose a new educational framework relying on cumulative conceptual networks based on hyperlink network of the Wikipedia connecting concepts of vocabulary about current learning topic. Personalization of educational material is carried out by alternating the distribution of enabled hyperlinks connecting concepts belonging to current vocabulary. Adoption of knowledge can be gained by exploring hyperlink network and the shortest paths between concepts of vocabulary (especially concepts having highest rankings and strongly rising rankings). Publication estimates properties of conceptual networks generated based on hyperlink network of the Wikipedia between concepts retrieved from English Vocabulary Profile for cumulatively growing vocabularies corresponding to six language ability levels. Discussed in Chapter 12, starting from Subchapter 12.2.

**P9:** Lahti, L. (2014a). Educational exploration based on conceptual networks generated by students and Wikipedia linkage. Proc. World Conference on Educational Multimedia, Hypermedia and Telecommunications 2014 (EdMedia 2014) (lisää toimittajat), 964–974. ISBN 978-1-939797-08-7. Association for the Advancement of Computing in Education (AACE), Chesapeake, VA, USA. <http://www.editlib.org/p/147608/>

In this publication we propose a new educational framework for educational exploration based on conceptual networks generated and explored by students supplied with Wikipedia linkage. We report findings based on comparison of word lists and conceptual networks generated by students, vocabulary ranking of British National Corpus, hyperlink network structure of the Wikipedia and exploration paths of students in the hyperlink network of the Wikipedia. Publication introduces sample high-frequency lists and conceptual relationships generated by students and comparison of rankings. Publication extends the analysis introduced in publications P2 and P6 in respect to comparison of features of concept maps drawn by students, hyperlink network structure of the Wikipedia and exploration paths in hyperlink network of the Wikipedia.

Discussed in Subchapters 3.9-3.10, Subchapters 5.3-5.4, Subchapter 9.3 and Subchapter 10.2.

**P10:** Lahti, L. (2014b). Computational method for supporting learning with cumulative vocabularies, conceptual networks and Wikipedia linkage. International Journal for Cross-Disciplinary Subjects in Education (IJCDSE), 5(2), June 2014 (eds. Shoniregun, C., & Cooper, R.). Infonomics Society, UK. <http://www.infonomics-society.org/IJCDSE/Computational%20Method%20for%20Supporting%20Learning.pdf>

In this publication we propose a new educational framework relying on both cumulative and partially cumulative conceptual networks based on hyperlink network of the Wikipedia connecting concepts of vocabulary about current learning topic. Publication P10 is a journal article based on publication P8 that is a conference article. In publication P8 we reported results concerning English Vocabulary Profile and these results were partially corrected in publication P10 and extended with results concerning Oxford Wordlist. As in publication P8, also in publication P10 personalization of educational material is carried out by alternating the distribution of enabled hyperlinks connecting concepts belonging to current vocabulary and adoption of knowledge can be gained by exploring hyperlink network and the shortest paths between concepts of vocabulary (especially concepts having highest rankings and strongly rising rankings). Publication P10 estimates properties of conceptual networks generated based on hyperlink network of the Wikipedia between concepts retrieved from English Vocabulary Profile for cumulatively growing vocabularies corresponding to six language ability levels and retrieved from Oxford Wordlist for partially cumulatively growing vocabularies corresponding to five language ability levels.

Discussed in Chapter 12, starting from Subchapter 12.2.

**P11:** Lahti, L. (2014c). Experimental evaluation of learning performance for exploring the shortest paths in hyperlink network of Wikipedia. Proc. World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education (E-Learn 2014), 27-30 October 2014, New Orleans, Louisiana, USA (eds. Bastiaens, T., & Marks, G.). Association for the Advancement of Computing

in Education (AACE), Chesapeake, Virginia, USA, 1069–1074. ISBN 978-1-939797-12-4.  
<http://www.editlib.org/p/148865/>

In this publication we report an experimental evaluation of learning performance for exploring the shortest paths in hyperlink network of Wikipedia online encyclopedia. In three separate learning sessions of students read series of sentences built by using unique hyperlinks that form the eleven shortest paths and answered three pre-test and three post-test multiple-choice questionnaires about recall of sentences (tests 1-6). In tests 2-5 for both unique hyperlinks and consecutive pairs of hyperlinks, experiment group having sentences chained in such an ordering that corresponds to traversing cumulatively a series of associative trails along alternative parallel shortest paths in hyperlink network of Wikipedia reached higher recall than control group having same sentences in randomized ordering .

Discussed in Chapter 10, starting from Subchapter 10.3.

## Appendix B

To address various challenges concerning supporting learning with adaptive collaborative knowledge resources and recommendation systems based on them, we defined in this doctoral dissertation the following *main research question*:

What kind of methods are promising for developing such computer-assisted collaborative knowledge management systems that aim to support cumulative exploration and adoption of new knowledge addressing the learner's personal needs in various contexts and collaborative processes and that can exploit knowledge resources of Wikipedia online encyclopedia?

Main themes of our research can be explained by formulating a list of questions, with an aim to find suitable balance between broad coverage and specific attention to details. Motivated by just mentioned main research question we aim to cover with following questions various aspects of our research goals while divided divide into more manageable units.

1. How learners could be fruitfully combined into *collaborative educational groups* complementing each other's strengths and contributions with a system supporting computer-assisted learning? How the collaborator roles can be easily identified, distributed and supported with the automated system? How *collaborative learning efforts can be cumulated into a shared visualization* representing agreed conceptualization? How negotiation and ideation (brainstorming) between participating learners representing complementing collaborator roles can be organized in a systematic well documented and referenced way?
2. How knowledge content and its structures collaboratively created and edited in open access knowledge resources could be exploited in computer-assisted learning? Especially *how to exploit the extensive resources of the Wikipedia online encyclopedia* being currently the largest encyclopedia available? How the learner could be provided with fruitful *personalized support by getting recommendations how to pedagogically explore knowledge resources*? How the learner could cumulatively build own visual representations of the knowledge explored so far? Especially how to visualize explorations with concept maps due to their compactness and expressiveness?
3. How the learner's *exploration in knowledge resource of the Wikipedia* could be fruitfully *personalized and tailored based on simple statistical features* already present in knowledge content and its structures? How recommendations could be generated based on a compact set of diverse features reflecting important characteristics of learning process? How this exploration can be represented and visualized fluently in a compact and intuitive way using concept maps?
4. How the learner could build concept maps representing *diverse exploration paths in the knowledge resources of the Wikipedia* exploiting possibilities of simultaneously operating with *parallel ranking lists of hyperlinks*, emphasizing in the concept map construction building diversely branching structures, and browsing different *consecutive temporal versions* of Wikipedia articles?
5. How a new educational framework could be defined to support the community of learners to generate together a *wiki representing pedagogical knowledge with a collection of concept maps* which is collaboratively created, edited and browsed? How the learners and educators could provide complementing contribution to evolving shared knowledge structures stored supplied with time stamps and a user profile enabling to analyze maturing of knowledge according to various learner-driven criteria? How *pedagogically motivated learning paths can be collaboratively defined and evaluated*, and how educational games can be incorporated based on browsing and editing a concept map collection?

6. How the process of adoption of new knowledge by the learner could be best supported in connecting the learner's prior knowledge fruitfully to new knowledge? How the *knowledge resource of the Wikipedia* and its knowledge structures could be exploited to *provide efficient linking between prior and new knowledge*? How the *learning context* and the *collective cumulative knowledge of the learner community* could provide diverse supporting guidance for adoption of new knowledge? How this learning process could be intuitively visualized?
7. How the learner's *exploration in hyperlink network of the Wikipedia as a sequential process* could be guided pedagogically rewardingly to adopt vocabulary and new knowledge? How this sequential process could be best *supported with tailored variation and repetition* addressing functional principles of living neural system and memory? What are the most *optimal spacing intervals for exposure and retention of pieces of knowledge to be learned*? What kind of parameters are useful to be taken into account when trying to optimize the adoption of knowledge and how these parameters could be well measured and adjusted?
8. How educational material could be presented to the student with a personalized and cumulative form that well supports *adoption of vocabulary and new knowledge*? How the connectivity of conceptual network can be flexibly alternated along learning to offer gradually expanding coverage of vocabulary? What kind of empirical estimates can be made about properties of cumulative vocabularies and conceptual networks when a *learner goes through typical language ability levels*? What kind of *conceptual linkage and exploration patterns* can be generated *based on the Wikipedia hyperlink network* to represent conceptualization of an average child or adult?
9. How educational exploration could be supported based on conceptual networks generated and explored by students supplied with Wikipedia linkage? How methods of knowledge adoption could be supplied with features identified by *comparison of word lists and conceptual networks generated by students, vocabulary ranking of British National Corpus, hyperlink network structure of the Wikipedia and exploration paths of students in the hyperlink network of the Wikipedia*? How learning could benefit from introduction of sample high-frequency lists and conceptual relationships generated by students and comparison of rankings?
10. How educational material could be presented to the student with *both a cumulative form and a partially cumulative form* that well support *adoption of vocabulary and new knowledge* based on the Wikipedia hyperlink network? How the connectivity of conceptual networks relying on alternative cumulative and partially cumulative vocabularies could be exploited to offer *complementing support* for adoption of gradually expanding coverage of vocabulary? What kind of empirical estimates can be made about *different learning effects* when students explore various cumulative or partially cumulative vocabularies and conceptual networks having different properties? What are major similarities and differences when comparing *cumulative or partially cumulative conceptual linkage and exploration patterns* generated based on the Wikipedia hyperlink network to *other typical knowledge structures* beneficial for conceptualization of an average child or adult?
11. How *learning performance* based on *exploring the shortest paths* in hyperlink network of Wikipedia could be efficiently evaluated? How the *size of hyperlink network, length of the shortest paths and number of alternative parallel paths* can affect the learning performance and its evaluation? How the *needs of different kinds of learners* having varying strengths could be efficiently addressed by adaptively generated and guided exploration patterns in hyperlink network? How traversing *cumulatively a series of associative trails* along alternative parallel shortest paths affects the type of *recalled knowledge* and cumulative increase and decay in memory? What *patterns of hyperlinks and pairs of consecutive hyperlinks* can become adopted and recalled in respect to varying conditions along cumulative traversals and how these patterns can be paralleled with other types of traversals in knowledge structures?

We have tried to formulate these questions so that in the given order they form a continuity and open gradually enriching perspectives to our research of developing computer-assisted learning.

These questions one by one become under focus in publications [P1]-[P11], thus publication [P1] trying to address question 1, publication [P2] question 2, and so on.

(empty on purpose)

## Appendix C

Based on Table 4.2 this listing shows the number of occurrences (measured proportionally) of twelve activities among four collaborator roles of Competing Values Framework so that each role represented by five persons (n=20), and also the sum of number of occurrences of all activities (activities 1-12) of current member (measured proportionally).

In the listing below, for example for member IB\_1 the number of occurrences (measured proportionally) of activity “submit ideas” is 0.025806. This is calculated based on Table 4.2 so that since for member IB\_1 the number of occurrences of activity “submit ideas” is 4 and the sum of the number of occurrences of activity “submit ideas” for all 20 members together is 155 (29+27+54+45 = 155), then  $4/155 \approx 0.025806$ .

Members belonging to groups of Competing Values Framework collaborator roles	Activities 1-6 of twelve activities					
Innovator-broker (create)	Submits ideas	Adds nodes to concept map	Adds arcs to concept map	Makes references to ideas	Makes references to concept map	Comments ideas
IB_1	0.025806	0.044444	0.052326	0.085714	0.015152	0.02381
IB_2	0.03871	0.037037	0.02907	0.057143	0.030303	0.02381
IB_3	0.051613	0.051852	0.046512	0.028571	0.045455	0.035714
IB_4	0.025806	0.02963	0.02907	0	0.030303	0.011905
IB_5	0.045161	0.066667	0.075581	0.142857	0.060606	0.02381
Producer-director (compete)	Submits ideas	Adds nodes to concept map	Adds arcs to concept map	Makes references to ideas	Makes references to concept map	Comments ideas
PD_1	0.019355	0.02963	0.023256	0.057143	0.030303	0.02381
PD_2	0.032258	0.074074	0.075581	0	0.090909	0.02381
PD_3	0.032258	0.044444	0.02907	0.142857	0.045455	0.059524
PD_4	0.03871	0.051852	0.046512	0	0.060606	0.047619
PD_5	0.051613	0.022222	0.02907	0.057143	0.030303	0.047619
Coordinator-monitor (control)	Submits ideas	Adds nodes to concept map	Adds arcs to concept map	Makes references to ideas	Makes references to concept map	Comments ideas
CM_1	0.012903	0.044444	0.034884	0.028571	0.015152	0.071429
CM_2	0.090323	0.051852	0.040698	0.057143	0.015152	0.095238
CM_3	0.116129	0.044444	0.093023	0.028571	0.121212	0.035714
CM_4	0.045161	0.066667	0.069767	0.057143	0.090909	0.107143
CM_5	0.083871	0.02963	0.040698	0.028571	0.060606	0.047619
Facilitator-mentor (collaborate)	Submits ideas	Adds nodes to concept map	Adds arcs to concept map	Makes references to ideas	Makes references to concept map	Comments ideas
FM_1	0.051613	0.074074	0.046512	0.142857	0.045455	0.047619
FM_2	0.070968	0.051852	0.052326	0.028571	0.030303	0.083333
FM_3	0.058065	0.059259	0.063953	0.057143	0.075758	0.071429
FM_4	0.064516	0.066667	0.069767	0	0.045455	0.047619
FM_5	0.045161	0.059259	0.052326	0	0.060606	0.071429
Members belonging to groups of Competing Values Framework collaborator roles	Activities 7-12 of twelve activities					
Innovator-broker (create)	Comments concept map	Sends coordination messages	Synthesizes ideas to concept map	Distributes topics from concept map for reconsideration	Explores accordance of ideas and concept map	Requests stimulation for creative thinking
IB_1	0.011765	0.02	0.04886	0	0	0.027778
IB_2	0.047059	0.044	0.032573	0	0.017241	0.111111
IB_3	0.035294	0.048	0.04886	0	0.034483	0.027778
IB_4	0.035294	0.024	0.029316	0	0.034483	0.055556



IB_5	0.047059	0.032	0.071661	0.222222	0.017241	0.055556
Producer-director (compete)	Comments concept map	Sends coordination messages	Synthesizes ideas to concept map	Distributes topics from concept map for reconsideration	Explores accordance of ideas and concept map	Requests stimulation for creative thinking
PD_1	0.047059	0.02	0.026059	0	0	0.027778
PD_2	0.082353	0.044	0.074919	0.222222	0.051724	0.083333
PD_3	0.047059	0.048	0.035831	0	0.396552	0.055556
PD_4	0.070588	0.052	0.04886	0	0.034483	0
PD_5	0.047059	0.056	0.026059	0.111111	0.017241	0.083333
Coordinator-monitor (control)	Comments concept map	Sends coordination messages	Synthesizes ideas to concept map	Distributes topics from concept map for reconsideration	Explores accordance of ideas and concept map	Requests stimulation for creative thinking
CM_1	0.035294	0.04	0.039088	0	0.017241	0
CM_2	0.011765	0.1	0.045603	0.111111	0.034483	0.166667
CM_3	0.094118	0.084	0.071661	0.111111	0.017241	0
CM_4	0.094118	0.068	0.068404	0	0	0
CM_5	0.047059	0.068	0.035831	0.111111	0.12069	0.027778
Facilitator-mentor (collaborate)	Comments concept map	Sends coordination messages	Synthesizes ideas to concept map	Distributes topics from concept map for reconsideration	Explores accordance of ideas and concept map	Requests stimulation for creative thinking
FM_1	0.058824	0.048	0.058632	0	0.017241	0.055556
FM_2	0.023529	0.048	0.052117	0	0	0.027778
FM_3	0.058824	0.06	0.061889	0	0.155172	0.111111
FM_4	0.047059	0.052	0.068404	0	0.034483	0.055556
FM_5	0.058824	0.044	0.055375	0.111111	0	0.027778
Members belonging to groups of Competing Values Framework collaborator roles						
Innovator-broker (create)	Sum of number of occurrences of all activities (activities 1-12) of current member (proportionally)					
IB_1	0.355654					
IB_2	0.468056					
IB_3	0.454131					
IB_4	0.305362					
IB_5	0.860421					
Producer-director (compete)	Sum of number of occurrences of all activities (activities 1-12) of current member (proportionally)					
PD_1	0.304391					
PD_2	0.855183					
PD_3	0.936604					
PD_4	0.451229					
PD_5	0.578773					
Coordinator-monitor (control)	Sum of number of occurrences of all activities (activities 1-12) of current member (proportionally)					
CM_1	0.339006					
CM_2	0.820032					

CM_3	0.817226					
CM_4	0.667312					
CM_5	0.701463					
Facilitator-mentor (collaborate)	Sum of number of occurrences of all activities (activities 1- 12) of current member (proportionally)					
FM_1	0.646382					
FM_2	0.468777					
FM_3	0.832603					
FM_4	0.551525					
FM_5	0.585868					

(empty on purpose)

## Appendix D

Based on Table 4.2 this listing shows the absolute value of difference between activity frequency of current member and corresponding empirically gained average activity frequency for members of the same collaborator role in respect to four collaborator roles of Competing Values Framework so that each role represented by five persons (n=20).

In the listing below, for example for member IB\_1 the activity frequency (measured proportionally) of activity “submit ideas” is 0.025806 as explained in introductory text of Appendix C. On the other hand corresponding empirically gained average activity frequency (measured proportionally) for members of the same collaborator role of Innovator-broker is 0.187096774 (based on Table 4.2 it can computed as  $29/(29+27+54+45) \approx 0.187096774$  that is the number of occurrences of activity “submit ideas” for five members of role Innovator-broker divided by the number of occurrences of activity “submit ideas” for twenty members of all four roles). Thus for member IB\_1 the absolute value of difference between activity frequency of current member and corresponding empirically gained average activity frequency for members of the same collaborator role is about absolute value of 0.025806 minus 0.187096774 that is about 0.161290323.

Members belonging to groups of Competing Values Framework collaborator roles	Activities 1-6 of twelve activities					
Innovator-broker (create)	Submits ideas	Adds nodes to concept map	Adds arcs to concept map	Makes references to ideas	Makes references to concept map	Comments ideas
IB_1	0.161290323	0.185185185	0.180232558	0.228571429	0.166666667	0.095238095
IB_2	0.148387097	0.192592593	0.203488372	0.257142857	0.151515152	0.095238095
IB_3	0.135483871	0.177777778	0.186046512	0.285714286	0.136363636	0.083333333
IB_4	0.161290323	0.2	0.203488372	0.314285714	0.151515152	0.107142857
IB_5	0.141935484	0.162962963	0.156976744	0.171428571	0.121212121	0.095238095
Producer-director (compete)	Submits ideas	Adds nodes to concept map	Adds arcs to concept map	Makes references to ideas	Makes references to concept map	Comments ideas
PD_1	0.15483871	0.192592593	0.180232558	0.2	0.227272727	0.178571429
PD_2	0.141935484	0.148148148	0.127906977	0.257142857	0.166666667	0.178571429
PD_3	0.141935484	0.177777778	0.174418605	0.114285714	0.212121212	0.142857143
PD_4	0.135483871	0.17037037	0.156976744	0.257142857	0.196969697	0.154761905
PD_5	0.122580645	0.2	0.174418605	0.2	0.227272727	0.154761905
Coordinator-monitor (control)	Submits ideas	Adds nodes to concept map	Adds arcs to concept map	Makes references to ideas	Makes references to concept map	Comments ideas
CM_1	0.335483871	0.192592593	0.244186047	0.171428571	0.287878788	0.285714286
CM_2	0.258064516	0.185185185	0.238372093	0.142857143	0.287878788	0.261904762
CM_3	0.232258065	0.192592593	0.186046512	0.171428571	0.181818182	0.321428571
CM_4	0.303225806	0.17037037	0.209302326	0.142857143	0.212121212	0.25
CM_5	0.264516129	0.207407407	0.238372093	0.171428571	0.242424242	0.30952381

Facilitator-mentor (collaborate)	Submits ideas	Adds nodes to concept map	Adds arcs to concept map	Makes references to ideas	Makes references to concept map	Comments ideas
FM_1	0.238709677	0.237037037	0.238372093	0.085714286	0.212121212	0.273809524
FM_2	0.219354839	0.259259259	0.23255814	0.2	0.227272727	0.238095238
FM_3	0.232258065	0.251851852	0.220930233	0.171428571	0.181818182	0.25
FM_4	0.225806452	0.244444444	0.215116279	0.228571429	0.212121212	0.273809524
FM_5	0.24516129	0.251851852	0.23255814	0.228571429	0.196969697	0.25
Members belonging to groups of Competing Values Framework collaborator roles						
Activities 7-12 of twelve activities						
Innovator-broker (create)	Comments concept map	Sends coordination messages	Synthesizes ideas to concept map	Distributes topics from concept map for reconsideration	Explores accordance of ideas and concept map	Requests stimulation for creative thinking
IB_1	0.164705882	0.148	0.182410423	0.222222222	0.103448276	0.25
IB_2	0.129411765	0.124	0.198697068	0.222222222	0.086206897	0.166666667
IB_3	0.141176471	0.12	0.182410423	0.222222222	0.068965517	0.25
IB_4	0.141176471	0.144	0.201954397	0.222222222	0.068965517	0.222222222
IB_5	0.129411765	0.136	0.159609121	0	0.086206897	0.222222222
Producer-director (compete)	Comments concept map	Sends coordination messages	Synthesizes ideas to concept map	Distributes topics from concept map for reconsideration	Explores accordance of ideas and concept map	Requests stimulation for creative thinking
PD_1	0.247058824	0.2	0.185667752	0.333333333	0.5	0.222222222
PD_2	0.211764706	0.176	0.136807818	0.111111111	0.448275862	0.166666667
PD_3	0.247058824	0.172	0.175895765	0.333333333	0.103448276	0.194444444
PD_4	0.223529412	0.168	0.16286645	0.333333333	0.465517241	0.25
PD_5	0.247058824	0.164	0.185667752	0.222222222	0.482758621	0.166666667
Coordinator-monitor (control)	Comments concept map	Sends coordination messages	Synthesizes ideas to concept map	Distributes topics from concept map for reconsideration	Explores accordance of ideas and concept map	Requests stimulation for creative thinking
CM_1	0.247058824	0.32	0.221498371	0.333333333	0.172413793	0.194444444
CM_2	0.270588235	0.26	0.214983713	0.222222222	0.155172414	0.027777778
CM_3	0.188235294	0.276	0.188925081	0.222222222	0.172413793	0.194444444
CM_4	0.188235294	0.292	0.19218241	0.333333333	0.189655172	0.194444444
CM_5	0.235294118	0.292	0.2247557	0.222222222	0.068965517	0.166666667
Facilitator-mentor (collaborate)	Comments concept map	Sends coordination messages	Synthesizes ideas to concept map	Distributes topics from concept map for reconsideration	Explores accordance of ideas and concept map	Requests stimulation for creative thinking
FM_1	0.188235294	0.204	0.237785016	0.111111111	0.189655172	0.222222222
FM_2	0.223529412	0.204	0.244299674	0.111111111	0.206896552	0.25
FM_3	0.188235294	0.192	0.234527687	0.111111111	0.051724138	0.166666667
FM_4	0.2	0.2	0.22801302	0.111111111	0.172413793	0.222222222

			9			
FM_5	0.18823 5294	0.208	0.24104234 5	0	0.206896552	0.25

Each absolute value of difference from listing above for each member was coupled with the sum of number of occurrences of all activities (activities 1-12) of current member (measured proportionally) shown in listing of Appendix C. Thus we gained 240 pairs of values that are shown in two listings below in both original ordering and in such ordering that each pair of values is sorted in ascending order based on the absolute value of difference.

In the former of two listings absolute values of difference are listed one activity at time (activities 1-12) for all twenty members in order Innovator-broker, Producer-director, Coordinator-monitor and Facilitator-mentor for each member 1-5. The latter of two listings is illustrated in Figure 4.4.

Each pair of values in original ordering		When each pair of values is sorted into ascending order based on the absolute value of difference			
The absolute value of difference between activity frequency of current member and corresponding empirically gained average activity frequency for members of the same collaborator role	The sum of number of occurrences of all activities (activities 1-12) of current member (measured proportionally)		Rank	The absolute value of difference between activity frequency of current member and corresponding empirically gained average activity frequency for members of the same collaborator role	The sum of number of occurrences of all activities (activities 1-12) of current member (measured proportionally)
0.16129	0.355654		1	0	0.860421
0.148387	0.468056		2	0	0.585868
0.135484	0.454131		3	0.027778	0.820032
0.16129	0.305362		4	0.051724	0.832603
0.141935	0.860421		5	0.068966	0.454131
0.154839	0.304391		6	0.068966	0.305362
0.141935	0.855183		7	0.068966	0.701463
0.141935	0.936604		8	0.083333	0.454131
0.135484	0.451229		9	0.085714	0.646382
0.122581	0.578773		10	0.086207	0.468056
0.335484	0.339006		11	0.086207	0.860421
0.258065	0.820032		12	0.095238	0.355654
0.232258	0.817226		13	0.095238	0.468056
0.303226	0.667312		14	0.095238	0.860421
0.264516	0.701463		15	0.103448	0.936604
0.23871	0.646382		16	0.103448	0.355654
0.219355	0.468777		17	0.107143	0.305362
0.232258	0.832603		18	0.111111	0.855183
0.225806	0.551525		19	0.111111	0.646382
0.245161	0.585868		20	0.111111	0.468777
0.185185	0.355654		21	0.111111	0.832603
0.192593	0.468056		22	0.111111	0.551525
0.177778	0.454131		23	0.114286	0.936604
0.2	0.305362		24	0.12	0.454131
0.162963	0.860421		25	0.121212	0.860421
0.192593	0.304391		26	0.122581	0.578773
0.148148	0.855183		27	0.124	0.468056
0.177778	0.936604		28	0.127907	0.855183
0.17037	0.451229		29	0.129412	0.468056
0.2	0.578773		30	0.129412	0.860421
0.192593	0.339006		31	0.135484	0.454131
0.185185	0.820032		32	0.135484	0.451229
0.192593	0.817226		33	0.136	0.860421
0.17037	0.667312		34	0.136364	0.454131
0.207407	0.701463		35	0.136808	0.855183
0.237037	0.646382		36	0.141176	0.454131
0.259259	0.468777		37	0.141176	0.305362
0.251852	0.832603		38	0.141935	0.860421
0.244444	0.551525		39	0.141935	0.855183
0.251852	0.585868		40	0.141935	0.936604
0.180233	0.355654		41	0.142857	0.936604

0.203488	0.468056		42	0.142857	0.820032
0.186047	0.454131		43	0.142857	0.667312
0.203488	0.305362		44	0.144	0.305362
0.156977	0.860421		45	0.148	0.355654
0.180233	0.304391		46	0.148148	0.855183
0.127907	0.855183		47	0.148387	0.468056
0.174419	0.936604		48	0.151515	0.468056
0.156977	0.451229		49	0.151515	0.305362
0.174419	0.578773		50	0.154762	0.451229
0.244186	0.339006		51	0.154762	0.578773
0.238372	0.820032		52	0.154839	0.304391
0.186047	0.817226		53	0.155172	0.820032
0.209302	0.667312		54	0.156977	0.860421
0.238372	0.701463		55	0.156977	0.451229
0.238372	0.646382		56	0.159609	0.860421
0.232558	0.468777		57	0.16129	0.355654
0.22093	0.832603		58	0.16129	0.305362
0.215116	0.551525		59	0.162866	0.451229
0.232558	0.585868		60	0.162963	0.860421
0.228571	0.355654		61	0.164	0.578773
0.257143	0.468056		62	0.164706	0.355654
0.285714	0.454131		63	0.166667	0.855183
0.314286	0.305362		64	0.166667	0.355654
0.171429	0.860421		65	0.166667	0.468056
0.2	0.304391		66	0.166667	0.855183
0.257143	0.855183		67	0.166667	0.578773
0.114286	0.936604		68	0.166667	0.701463
0.257143	0.451229		69	0.166667	0.832603
0.2	0.578773		70	0.168	0.451229
0.171429	0.339006		71	0.17037	0.451229
0.142857	0.820032		72	0.17037	0.667312
0.171429	0.817226		73	0.171429	0.860421
0.142857	0.667312		74	0.171429	0.339006
0.171429	0.701463		75	0.171429	0.817226
0.085714	0.646382		76	0.171429	0.701463
0.2	0.468777		77	0.171429	0.832603
0.171429	0.832603		78	0.172	0.936604
0.228571	0.551525		79	0.172414	0.339006
0.228571	0.585868		80	0.172414	0.817226
0.166667	0.355654		81	0.172414	0.551525
0.151515	0.468056		82	0.174419	0.936604
0.136364	0.454131		83	0.174419	0.578773
0.151515	0.305362		84	0.175896	0.936604
0.121212	0.860421		85	0.176	0.855183
0.227273	0.304391		86	0.177778	0.936604
0.166667	0.855183		87	0.177778	0.454131
0.212121	0.936604		88	0.178571	0.304391
0.19697	0.451229		89	0.178571	0.855183
0.227273	0.578773		90	0.180233	0.355654
0.287879	0.339006		91	0.180233	0.304391
0.287879	0.820032		92	0.181818	0.817226
0.181818	0.817226		93	0.181818	0.832603
0.212121	0.667312		94	0.18241	0.355654
0.242424	0.701463		95	0.18241	0.454131
0.212121	0.646382		96	0.185185	0.355654
0.227273	0.468777		97	0.185185	0.820032
0.181818	0.832603		98	0.185668	0.304391
0.212121	0.551525		99	0.185668	0.578773
0.19697	0.585868		100	0.186047	0.454131
0.095238	0.355654		101	0.186047	0.817226
0.095238	0.468056		102	0.188235	0.817226
0.083333	0.454131		103	0.188235	0.667312
0.107143	0.305362		104	0.188235	0.646382
0.095238	0.860421		105	0.188235	0.832603
0.178571	0.304391		106	0.188235	0.585868
0.178571	0.855183		107	0.188925	0.817226
0.142857	0.936604		108	0.189655	0.667312
0.154762	0.451229		109	0.189655	0.646382
0.154762	0.578773		110	0.192	0.832603
0.285714	0.339006		111	0.192182	0.667312
0.261905	0.820032		112	0.192593	0.468056
0.321429	0.817226		113	0.192593	0.304391
0.25	0.667312		114	0.192593	0.339006
0.309524	0.701463		115	0.192593	0.817226
0.27381	0.646382		116	0.194444	0.936604

0.238095	0.468777		117	0.194444	0.339006
0.25	0.832603		118	0.194444	0.817226
0.27381	0.551525		119	0.194444	0.667312
0.25	0.585868		120	0.19697	0.451229
0.164706	0.355654		121	0.19697	0.585868
0.129412	0.468056		122	0.198697	0.468056
0.141176	0.454131		123	0.2	0.578773
0.141176	0.305362		124	0.2	0.304391
0.129412	0.860421		125	0.2	0.578773
0.247059	0.304391		126	0.2	0.468777
0.211765	0.855183		127	0.2	0.305362
0.247059	0.936604		128	0.2	0.551525
0.223529	0.451229		129	0.2	0.304391
0.247059	0.578773		130	0.2	0.551525
0.247059	0.339006		131	0.201954	0.305362
0.270588	0.820032		132	0.203488	0.468056
0.188235	0.817226		133	0.203488	0.305362
0.188235	0.667312		134	0.204	0.646382
0.235294	0.701463		135	0.204	0.468777
0.188235	0.646382		136	0.206897	0.468777
0.223529	0.468777		137	0.206897	0.585868
0.188235	0.832603		138	0.207407	0.701463
0.2	0.551525		139	0.208	0.585868
0.188235	0.585868		140	0.209302	0.667312
0.148	0.355654		141	0.211765	0.855183
0.124	0.468056		142	0.212121	0.936604
0.12	0.454131		143	0.212121	0.646382
0.144	0.305362		144	0.212121	0.551525
0.136	0.860421		145	0.212121	0.667312
0.2	0.304391		146	0.214984	0.820032
0.176	0.855183		147	0.215116	0.551525
0.172	0.936604		148	0.219355	0.468777
0.168	0.451229		149	0.22093	0.832603
0.164	0.578773		150	0.221498	0.339006
0.32	0.339006		151	0.222222	0.355654
0.26	0.820032		152	0.222222	0.468056
0.276	0.817226		153	0.222222	0.454131
0.292	0.667312		154	0.222222	0.305362
0.292	0.701463		155	0.222222	0.578773
0.204	0.646382		156	0.222222	0.820032
0.204	0.468777		157	0.222222	0.817226
0.192	0.832603		158	0.222222	0.701463
0.2	0.551525		159	0.222222	0.304391
0.208	0.585868		160	0.222222	0.305362
0.18241	0.355654		161	0.222222	0.860421
0.198697	0.468056		162	0.222222	0.646382
0.18241	0.454131		163	0.222222	0.551525
0.201954	0.305362		164	0.223529	0.451229
0.159609	0.860421		165	0.223529	0.468777
0.185668	0.304391		166	0.224756	0.701463
0.136808	0.855183		167	0.225806	0.551525
0.175896	0.936604		168	0.227273	0.304391
0.162866	0.451229		169	0.227273	0.578773
0.185668	0.578773		170	0.227273	0.468777
0.221498	0.339006		171	0.228013	0.551525
0.214984	0.820032		172	0.228571	0.551525
0.188925	0.817226		173	0.228571	0.585868
0.192182	0.667312		174	0.228571	0.355654
0.224756	0.701463		175	0.232258	0.817226
0.237785	0.646382		176	0.232258	0.832603
0.2443	0.468777		177	0.232558	0.468777
0.234528	0.832603		178	0.232558	0.585868
0.228013	0.551525		179	0.234528	0.832603
0.241042	0.585868		180	0.235294	0.701463
0.222222	0.355654		181	0.237037	0.646382
0.222222	0.468056		182	0.237785	0.646382
0.222222	0.454131		183	0.238095	0.468777
0.222222	0.305362		184	0.238372	0.820032
0	0.860421		185	0.238372	0.701463
0.333333	0.304391		186	0.238372	0.646382
0.111111	0.855183		187	0.23871	0.646382
0.333333	0.936604		188	0.241042	0.585868
0.333333	0.451229		189	0.242424	0.701463
0.222222	0.578773		190	0.244186	0.339006
0.333333	0.339006		191	0.2443	0.468777



0.222222	0.820032		192	0.244444	0.551525
0.222222	0.817226		193	0.245161	0.585868
0.333333	0.667312		194	0.247059	0.304391
0.222222	0.701463		195	0.247059	0.936604
0.111111	0.646382		196	0.247059	0.578773
0.111111	0.468777		197	0.247059	0.339006
0.111111	0.832603		198	0.25	0.667312
0.111111	0.551525		199	0.25	0.832603
0	0.585868		200	0.25	0.585868
0.103448	0.355654		201	0.25	0.355654
0.086207	0.468056		202	0.25	0.454131
0.068966	0.454131		203	0.25	0.451229
0.068966	0.305362		204	0.25	0.468777
0.086207	0.860421		205	0.25	0.585868
0.5	0.304391		206	0.251852	0.832603
0.448276	0.855183		207	0.251852	0.585868
0.103448	0.936604		208	0.257143	0.468056
0.465517	0.451229		209	0.257143	0.855183
0.482759	0.578773		210	0.257143	0.451229
0.172414	0.339006		211	0.258065	0.820032
0.155172	0.820032		212	0.259259	0.468777
0.172414	0.817226		213	0.26	0.820032
0.189655	0.667312		214	0.261905	0.820032
0.068966	0.701463		215	0.264516	0.701463
0.189655	0.646382		216	0.270588	0.820032
0.206897	0.468777		217	0.27381	0.646382
0.051724	0.832603		218	0.27381	0.551525
0.172414	0.551525		219	0.276	0.817226
0.206897	0.585868		220	0.285714	0.454131
0.25	0.355654		221	0.285714	0.339006
0.166667	0.468056		222	0.287879	0.339006
0.25	0.454131		223	0.287879	0.820032
0.222222	0.305362		224	0.292	0.667312
0.222222	0.860421		225	0.292	0.701463
0.222222	0.304391		226	0.303226	0.667312
0.166667	0.855183		227	0.309524	0.701463
0.194444	0.936604		228	0.314286	0.305362
0.25	0.451229		229	0.32	0.339006
0.166667	0.578773		230	0.321429	0.817226
0.194444	0.339006		231	0.333333	0.304391
0.027778	0.820032		232	0.333333	0.936604
0.194444	0.817226		233	0.333333	0.451229
0.194444	0.667312		234	0.333333	0.339006
0.166667	0.701463		235	0.333333	0.667312
0.222222	0.646382		236	0.335484	0.339006
0.25	0.468777		237	0.448276	0.855183
0.166667	0.832603		238	0.465517	0.451229
0.222222	0.551525		239	0.482759	0.578773
0.25	0.585868		240	0.5	0.304391

## Appendix E

This listing shows two alternatively computed high-frequency word lists of 110 highest-ranking common nouns of British National Corpus ((Kilgarriff 1997); (Leech et al. 2001)), relying on about 100 million word corpus, and similarly 110 highest-ranking common nouns of Corpus of Contemporary American English ((Davies & Gardner 2010); (Word frequency data from COCA 2013)), relying on about 400 million word corpus, that reveal together some variation in rankings of everyday vocabulary. We could not fully understand why in online frequency lists of Corpus of Contemporary American English some of the frequencies did not seem to systematically descend along the provided rank position but anyway we decided to use these lists for our analysis.

Rank position	Lemmatized words in British National Corpus (Kilgarriff 1997)		Lemmatized words in British National Corpus (Leech et al. 2001)		Lemmatized words in Corpus of Contemporary American English 2013 ((Davies & Gardner 2010); (Word frequency data from COCA 2013))	
	noun concept (rank among all words (including nouns and other part-of-speech))	frequency	noun concept (rank among all words (including nouns and other part-of-speech))	frequency per million words	noun concept (rank among all words (including nouns and other part-of-speech))	frequency
1	time (53)	183427	time (53)	1833	time (52)	764657
2	year (60)	163930	year (60)	1639	year (54)	769254
3	people (80)	125430	people (79)	1256	people (62)	691468
4	way (89)	112636	way (90)	1108	way (84)	470401
5	man (101)	97985	man (95)	1003	day (90)	432773
6	day (104)	92699	day (100)	940	man (94)	409760
7	thing (115)	77612	thing (111)	776	thing (97)	400724
8	child (121)	71008	child (121)	710	woman (111)	341422
9	government (133)	66894	mr (131)	673	life (114)	333085
10	part (135)	65773	government (132)	670	child (115)	333849
11	life (137)	64423	work (134)	653	world (123)	303506
12	case (140)	63577	life (138)	645	school (125)	304183
13	woman (141)	63087	woman (140)	631	state (137)	272193
14	work (146)	62248	system (146)	619	family (147)	243267
15	system (149)	61912	case (149)	613	student (157)	255047
16	group (155)	60689	part (150)	612	group (163)	229435
17	number (156)	60607	group (152)	607	country (166)	223138
18	world (161)	59094	number (153)	606	problem (171)	217728
19	area (162)	58449	world (156)	600	hand (174)	225247
20	course (164)	57776	house (158)	598	part (178)	207861
21	company (165)	57754	area (159)	585	place (181)	202427
22	problem (168)	56483	company (162)	579	case (186)	200773
23	service (173)	54468	problem (166)	565	week (188)	199268
24	hand (176)	53265	service (173)	549	company (189)	2033

						45
25	party (177)	52979	place (175)	534	system (191)	2001 75
26	school (181)	52227	hand (176)	532	program (194)	1959 85
27	place (184)	51537	party (178)	529	question (197)	1920 70
28	point (190)	49187	school (179)	529	work (199)	1875 33
29	house (191)	49022	country (187)	486	government (201)	1913 14
30	country (193)	48177	point (189)	484	number (204)	1860 05
31	week (196)	47512	week (194)	476	night (209)	1845 11
32	member (199)	47141	member (195)	471	mr (211)	1885 55
33	end (206)	45160	end (201)	458	point (212)	1774 81
34	word (213)	43750	state (210)	440	home (225)	1705 27
35	example (216)	43402	word (212)	438	water (227)	1676 66
36	family (218)	42773	family (217)	428	room (228)	1724 72
37	fact (220)	42241	fact (218)	426	mother (230)	1694 07
38	state (224)	41351	head (227)	402	area (231)	1658 12
39	percent (225)	41205	month (231)	398	money (233)	1647 94
40	home (235)	39850	side (232)	398	story (234)	1635 82
41	month (236)	39819	business (233)	394	fact (236)	1644 01
42	side (237)	39626	night (234)	393	month (237)	1626 85
43	night (238)	39315	eye (235)	392	lot (239)	1695 70
44	eye (240)	39192	home (239)	390	right (240)	1632 59
45	head (241)	39000	question (240)	390	study (241)	1740 69
46	information (242)	38656	information (242)	387	book (242)	1540 13
47	question (243)	38608	power (245)	385	eye (243)	1691 50
48	business (244)	38204	change (246) (per_cent shares same position and frequency as change according to ( <a href="http://ucrel.lancs.ac.uk/bncfreq/lists/5_1_all_rank_noun.txt">http://ucrel.lancs.ac.uk/bncfreq/lists/5_1_all_rank_noun.txt</a> ))	384	job (244)	1547 43
49	power (246)	37963	interest (250)	376	word (245)	1528 91
50	money (247)	37892	development (253)	375	business (247)	1544 68
51	change (248)	37884	money (254)	375	issue (248)	1564 17
52	interest (250)	37744	book (255)	374	side (249)	1525 59
53	order (251)	37736	water (256)	372	kind (250)	1550 32
54	book (252)	37675	other (259)	367	head (252)	1601 31
55	development (254)	37386	form (260)	365	house (258)	1492 51
56	room (259)	36360	room (261)	364	service (264)	1461 22
57	water (261)	35767	level (262)	360	friend (266)	1426 97
58	form (262)	35758	car (267)	353	father (268)	1450 51

59	car (263)	35295	council (271)	348	power (272)	1413 57
60	other (264)	35164	policy (272)	348	hour (273)	1389 55
61	level (268)	34885	market (274)	346	game (274)	1463 11
62	policy (271)	34775	court (277)	344	line (277)	1359 86
63	council (274)	34496	effect (285)	336	end (279)	1341 04
64	line (278)	33888	result (287)	334	member (286)	1347 31
65	need (280)	33660	idea (292)	328	law (288)	1337 06
66	effect (281)	33423	use (293)	328	car (290)	1335 71
67	use (283)	32998	study (294)	327	city (291)	1326 84
68	idea (286)	32798	job (296) name (296)	326 326	community (297)	1330 57
69	study (287)	32786			name (299)	1271 39
70	lot (288)	32733	body (299)	325	president (304)	1342 03
71	job (290)	32484	report (300)	325	team (308)	1314 89
72	name (292)	32309	line (301)	323	minute (309)	1266 60
73	result (293)	32259	law (302)	318	idea (312)	1221 40
74	body (294)	32231	face (305)	315	kid (313)	1264 28
75	friend (296)	31927	friend (306)	315	body (314)	1251 65
76	right (297)	31873	authority (308)	313	information (315)	1273 31
77	authority (303)	31231	road (309)	313	back (323)	1250 06
78	view (306)	31102	minister (319)	305	parent (328)	1196 10
79	report (311)	30857	rate (323)	303	face (331)	1272 91
80	bit (315)	30675	door (324) hour (324)	302 302	others (337)	1157 71
81	face (316)	30624			level (339)	1217 04
82	market (318)	30596	office (329)	300	office (342)	1147 91
83	hour (324)	30218	right (330)	299	door (344)	1249 93
84	rate (325)	30179	war (331)	297	health (345)	1177 62
85	law (326)	30169	mother (332)	295	person (346)	1136 50
86	door (327)	30166	person (335)	290	art (347)	1178 51
87	court (328)	29976	reason (337)	289	war (350)	1178 04
88	office (329)	29943	view (338)	289	history (351)	1149 04
89	war (331)	29722	term (343)	288	party (352)	1129 62
90	reason (333)	29194	period (352)	283	result (355)	1162 77
91	minister (335)	29141	centre (353)	282	change (357)	1124 26
92	subject (336)	29091	figure (354) society (354)	282 282	morning (358)	1140 02
93	person (337)	28981			reason (360)	1068 63
94	term (338)	28896	police (356)	278	research (363)	1148 02
95	sort (342)	28760	city (359)	275	girl (364)	1104 09
96	period (348)	28300	need (362)	273	guy (365)	1104 09
97	society (352)	28150	community (364)	272	food (367)	1077

			million (364)	272		28
98	process (353)	28035			moment (369)	1097 20
99	mother (354)	27784	kind (367)	271	air (371)	1059 32
100	voice (357)	27665	price (368)	271	teacher (372)	1161 00
101	police (360)	27508	control (369)	270	force (373)	1080 05
102	kind (361)	27485	action (370) cost (370) issue (370) process (370)	269 269 269 269	education (377)	1137 31
103	price (369)	27166			foot (381)	1072 85
104	action (371)	26894			boy (383)	1074 47
105	issue (372)	26889			age (387)	1034 02
106	position (375)	26625	position (376)	268	policy (389)	1076 01
107	cost (377)	26556	course (377)	267	process (392)	1073 41
108	matter (379)	26304	minute (378)	266	music (393)	1026 57
109	community (380)	26289	education (383)	260	market (403)	1004 35
110	figure (382)	26191	type (385)	259	sense (408)	9589 6

## Appendix F

This listing shows 102 core concepts of concept maps drawn by students and the closest matching entry of Wikipedia article corresponding to the concept (based on 102 highest-ranking concepts in word lists generated by students as discussed in Subchapter 3.10). Although according to this listing concept “sister” mentioned in concept maps corresponds to Wikipedia article Sibling it needs to be noted that also concept “brother” mentioned in concept maps (but not belonging to these 102 highest-ranking concepts) corresponds to the same Wikipedia article Sibling. In the Wikipedia both entry Sister and entry Brother are redirected to shared article Sibling and thus in the Wikipedia word “sibling” can be considered to represent both words “brother” and “sister”.

When analyzing conceptual relationships between 102 core concepts we made a decision to form a collection of altogether 145 conceptual relationships, called core relationships, aiming to represent knowledge structures of the students between 102 core concepts extended with concept “brother”. When comparing drawn concept maps to hyperlink structure of the Wikipedia, for example in Appendix N, concepts of concept maps can be transformed to a spelling that matches corresponding Wikipedia articles and thus concept “brother” can be transformed to a spelling that is Sibling.

<i>Concept in concept maps drawn by students</i>	<i>Original Finnish spelling of concept in concept maps drawn by students</i>	<i>The closest matching entry of Wikipedia article corresponding to the concept</i>
air	ilma	Atmosphere of Earth
animal	eläin	Animal
baby	vauva	Infant
bed	sänky	Bed
biology	biologia	Biology
birth	syntymä	Birth
book	kirja	Book
bread	leipä	Bread
car	auto	Automobile
cat	kissa	Cat
chair	tuoli	Chair
child	lapsi	Child
childhood	lapsuus	Childhood
city	kaupunki	City
clock	kello	Clock
cloth	vaate (in exploration task replaced with: vaatetus)	Clothing
computer	tietokone	Computer
death	kuolema	Death
disease	sairaus	Disease
dog	koira	Dog
dream_(sleeping)	uni	Dream
eating	syöminen	Eating
education	koulutus	Education
elderness	vanhuus	Old age
emotion	tunne	Emotion
environment	ympäristö	Environment
evolution	evoluutio	Evolution
exam	koe	Test (assessment)
experience	kokemus	Experience
family	perhe	Family
father	isä	Father
flower	kukka	Flower
food	ruoka	Food
forest	metsä	Forest
free_time	vapaa-aika	Leisure
friend	ystävä (in exploration task replaced with: ystävyys)	Friendship
fun	hupi	Fun
future	tulevaisuus	Future
goal_(to_achieve)	tavoite	Goal
god	jumala	God
goodness	hyvyys	Goodness
ground	maa	Ground

growing	kasvaminen	Growing
happiness	onnellisuus	Happiness
hate	viha	Hatred
health	terveys	Health
heart	sydän	Heart
hobby	harrastus	Hobby
holiday	loma	Holiday
home	koti	Home
hospital	sairaala	Hospital
house	talo	House
human	ihminen	Human
joy	ilo	Joy
learning	oppiminen	Learning
light	valo	Light
living	eläminen	Living
love	rakkaus	Love
marriage	avioliitto	Marriage
money	raha	Money
mother	äiti	Mother
music	musiikki	Music
nature	luonto	Nature
nutriment	ravinto	Diet (nutrition)
organism	eliö	Organism
oxygen	happi	Oxygen
paper	paperi	Paper
parent	vanhempi	Parent
party	juhla	Party
peace	rauha	Peace
pen	kynä	Pen
people	ihminen (ryhmä)	People
pet	lemmikki (in exploration task replaced with: lemmikkieläin)	Pet
philosophy	filosofia	Philosophy
phone	puhelin	Telephone
physical training	liikunta	Physical fitness
plant	kasvi	Plant
pleasure	nautinto	Pleasure
purpose	tarkoitus	Purpose
rain	sade	Rain
religion	uskonto	Religion
sadness	surullisuus	Sadness
school	koulu	School
sea	meri	Sea
shoe	kenkä	Shoe
sister	sisko (in exploration task replaced with: sisarus)	Sibling
sorrow	suru	Sorrow
sport	urheilu	Sport
study	opiskelu	Study
succeeding	onnistuminen	Management
summer	kesä	Summer
sun	aurinko	Sun
teacher	opettaja	Teacher
television	televisio	Television
time	aika	Time
travel	matka (in exploratio task replaced with: matkustaminen)	Travel
tree	puu	Tree
war	sota	War
water	vesi	Water
work	työ	Work
world	maailma	World
young_(person)	nuori (in exploration task replaced with: nuoruus)	Adolescence

## Appendix G

Number of unique start concepts and unique end concepts as well as unique start/end concepts for hyperlinks between Wikipedia articles (as of in the beginning of March 2008), especially among 102 core concepts and considering hyperlinks departing from full text section and intro text section. In column 6 and column 9 that show “number of unique start/end concepts” each concept is counted only once even if occurring as both start and end concept.

Observed concept	Number of unique end concepts for hyperlinks departing from full text section of observed concept	Number of unique end concepts for hyperlinks departing from only intro text section of observed concept	Number of unique end concepts for hyperlinks departing from full text section of observed concept to any of 102 core concepts	Number of unique start concepts for hyperlinks arriving from full text section of any of 102 core concepts to observed concept	Number of unique start/end concepts for such hyperlinks that either arrive from full text section of any of 102 core concepts to observed concept or depart from full text section of observed concept to any of 102 core concepts	Number of unique end concepts for hyperlinks departing from only intro text section of observed concept to any of 102 core concepts	Number of unique start concepts for hyperlinks arriving from only intro text section of any of 102 core concepts to observed concept	Number of unique start/end concepts for such hyperlinks that either arrive from only intro text section of any of 102 core concepts to observed concept or depart from only intro text section of observed concept to any of 102 core concepts
Adolescence	190	6	7	8	10	1	0	1
Animal	245	13	10	10	15	2	3	5
Atmosphere of Earth	194	20	9	4	9	2	0	2
Automobile	709	5	1	3	3	0	0	0
Bed	161	15	3	1	3	0	0	0
Biology	305	19	9	11	13	1	3	3
Birth	64	9	4	1	5	2	1	3
Book	315	17	2	2	3	1	0	1
Bread	451	30	4	1	4	2	0	2
Cat	457	25	3	2	3	1	0	1
Chair	78	11	0	0	0	0	0	0
Child	102	3	9	7	10	1	2	3
Childhood	66	5	4	6	6	2	1	3
City	425	10	3	1	4	0	0	0
Clock	391	9	3	2	3	1	0	1
Clothing	212	36	4	3	6	1	0	1
Computer	459	18	2	2	4	0	0	0
Death	323	14	9	7	14	2	2	3
Diet_(nutrition)	59	11	4	5	7	4	0	4
Disease	184	18	1	5	5	1	2	2
Dog	452	17	3	2	3	1	1	1
Dream	186	4	2	1	2	0	0	0
Eating	53	16	5	3	7	5	2	6
Education	254	16	13	9	17	2	4	5
Emotion	210	5	8	7	10	2	2	4
Environment	19	no intro text section available	0	0	0	no intro text section available	0	0
Evolution	419	26	5	11	14	1	2	2
Experience	237	25	2	3	5	0	3	3
Family	152	6	6	12	12	1	5	5
Father	92	30	6	5	7	3	2	3
Flower	221	5	2	2	3	0	0	0
Food	343	18	12	5	14	1	1	1
Forest	146	12	4	2	4	1	0	1



Friendship	103	45	4	1	4	1	0	1
Fun	1	no intro text section available	0	0	0	no intro text section available	0	0
Future	151	no intro text section available	7	2	7	no intro text section available	0	0
Goal	42	5	1	2	2	0	1	1
God	252	27	4	7	9	1	0	1
Goodness	1	no intro text section available	0	0	0	no intro text section available	0	0
Ground	16	no intro text section available	1	0	1	no intro text section available	0	0
Growing	5	no intro text section available	0	0	0	no intro text section available	0	0
Happiness	69	3	2	8	8	2	2	4
Hatred	123	no intro text section available	5	5	6	no intro text section available	0	0
Health	153	2	5	7	8	1	2	3
Heart	145	11	0	3	3	0	0	0
Hobby	121	2	8	0	8	1	0	1
Holiday	80	4	0	0	0	0	0	0
Home	33	5	3	1	3	1	1	2
Hospital	192	8	2	2	4	0	0	0
House	197	8	4	3	6	2	0	2
Human	871	15	20	15	33	0	8	8
Infant	139	8	6	5	7	1	1	2
Joy	81	no intro text section available	1	2	2	no intro text section available	1	1
Learning	92	14	4	2	5	2	1	2
Leisure	106	11	8	6	11	4	1	5
Light	242	17	3	2	4	0	0	0
Living	17	no intro text section available	0	0	0	no intro text section available	0	0
Love	238	5	11	11	16	2	2	4
Management	242	9	0	0	0	0	0	0
Marriage	473	23	8	9	13	3	2	4
Money	232	12	2	1	3	0	0	0
Mother	168	26	8	5	9	3	3	4
Music	254	21	3	6	9	0	0	0
Nature	323	19	10	5	11	1	0	1
Old_age	87	11	6	5	7	1	0	1
Organism	229	31	4	10	11	1	6	7
Oxygen	498	51	9	11	16	1	3	4
Paper	186	10	2	4	4	0	3	3
Parent	68	6	6	4	6	4	4	6
Party	94	1	3	0	3	0	0	0
Peace	78	5	2	1	2	0	0	0
Pen	59	3	1	0	1	1	0	1
People	71	13	4	1	5	1	0	1
Pet	85	8	4	3	5	2	1	2
Philosophy	505	6	3	16	17	0	4	4
Physical_fitness	34	2	2	3	4	1	0	1
Plant	420	18	12	16	19	2	3	5
Pleasure	88	5	7	4	7	1	0	1
Purpose	38	4	4	2	5	1	0	1
Rain	97	8	3	4	6	1	0	1
Religion	479	20	5	13	15	1	5	6
Sadness	125	9	6	5	6	2	0	2
School	172	17	2	3	3	2	0	2
Sea	149	13	1	1	1	0	1	1
Shoe	425	8	1	0	1	0	0	0

Sibling	92	7	6	8	9	3	0	3
Sorrow	10	no intro text section available	1	1	1	no intro text section available	1	1
Sport	127	3	1	3	4	0	0	0
Study	9	no intro text section available	0	0	0	no intro text section available	0	0
Summer	48	2	1	0	1	0	0	0
Sun	452	51	2	7	8	1	0	1
Teacher	136	7	4	3	5	0	1	1
Telephone	120	6	0	1	1	0	0	0
Television	162	14	0	10	10	0	0	0
Test_(assessment)	100	19	4	0	4	1	0	1
Time	492	28	8	13	18	2	2	4
Travel	26	no intro text section available	0	1	1	no intro text section available	0	0
Tree	367	20	3	2	4	1	2	3
War	448	19	4	4	7	0	0	0
Water	523	32	10	9	15	2	2	4
Work	24	no intro text section available	0	1	1	no intro text section available	1	1
World	53	12	2	0	2	2	0	2
<i>Sum of hyperlinks unique to each observed concept</i>	20512 (14907 unique to collection of all observed concepts)	1243 (1055 unique to collection of all observed concepts)	422 (85 unique to collection of all observed concepts)	422 (88 unique to collection of all observed concepts)	652 (93 unique to collection of all observed concepts)	100 (43 unique to collection of all observed concepts)	100 (60 unique to collection of all observed concepts)	182 (70 unique to collection of all observed concepts)
<i>Average</i>	201.1 ( $\approx 20512/102$ )	14.0 ( $\approx 1243/89$ )	4.1 ( $\approx 422/102$ )	4.1 ( $\approx 422/102$ )	6.4 ( $\approx 652/102$ )	1.1 ( $\approx 100/89$ )	1.0 ( $\approx 100/102$ )	1.8 ( $\approx 182/102$ )
<i>Median value</i>	151.5	11	3.5	3	5	1	0	1

(empty on purpose)

## Appendix H

Comparison of number of unique start concepts and unique end concepts as well as unique start/end concepts for hyperlinks in the Wikipedia and relationships in concept maps drawn by students, especially among 102 core concepts. Values concerning the Wikipedia (in columns 2-4) are based on Appendix G considering hyperlinks departing from full text section of articles. In column 2 that shows “number of unique start/end concepts” each concept is counted only once even if occurring as both start concept and end concept. Respectively in column 5 each concept is counted only once even if occurring as both start concept and end concept and even if it is possibly mentioned by several students. In column 6 showing “number of start/end concepts (duplicates allowed)” each concept becomes counted twice if occurring both as start concept and end concept and in addition becomes counted as many times as it is mentioned by students.

Observed concept	In Wikipedia			In concept maps	
	Number of unique start/end concepts of arriving/departing hyperlinks for observed concept in Wikipedia hyperlink network among 102 core concepts	Number of unique end concepts of departing hyperlinks for observed concept in Wikipedia hyperlink network among 102 core concepts	Number of unique start concepts of arriving hyperlinks for observed concept in Wikipedia hyperlink network among 102 core concepts	Number of unique start/end concepts in relationships for observed concept mentioned by at least two students in concept maps among 102 core concepts	Number of start/end concepts (duplicates allowed) in relationships for observed concept mentioned by at least two students in concept maps among 102 core concepts
Human	33	20	15	9	30
Plant	19	12	16	2	10
Time	18	8	13	0	0
Education	17	13	9	3	10
Philosophy	17	3	16	0	0
Love	16	11	11	12	46
Oxygen	16	9	11	1	2
Animal	15	10	10	8	27
Religion	15	5	13	1	3
Water	15	10	9	8	26
Death	14	9	7	9	42
Evolution	14	5	11	0	0
Food	14	12	5	5	17
Biology	13	9	11	1	3
Marriage	13	8	9	0	0
Family	12	6	12	24	107
Leisure	11	8	6	4	9
Nature	11	10	5	13	44
Organism	11	4	10	2	4
Adolescence	10	7	8	1	2
Child	10	9	7	4	13
Emotion	10	8	7	1	2
Television	10	0	10	3	8
Atmosphere of Earth	9	9	4	2	6
God	9	4	7	2	4
Mother	9	8	5	4	16
Music	9	3	6	1	2
Sibling	9	6	8	2 (brother)	4 (brother)
Happiness	8	2	8	3	11
Health	8	5	7	9	22
Hobby	8	8	0	5	16
Sun	8	2	7	3	7
Diet (nutrition)	7	4	5	1	2
Eating	7	5	3	0	0
Father	7	6	5	3	15
Future	7	7	2	0	0
Infant	7	6	5	0	0
Old_age	7	6	5	2	5
Pleasure	7	7	4	0	0
War	7	4	4	1	3

Childhood	6	4	6	0	0
Clothing	6	4	3	1	2
Hatred	6	5	5	0	0
House	6	4	3	5	12
Parent	6	6	4	1	2
Rain	6	3	4	0	0
Sadness	6	6	5	0	0
Birth	5	4	1	8	31
Disease	5	1	5	2	6
Experience	5	2	3	1	2
Learning	5	4	2	1	2
People	5	4	1	0	0
Pet	5	4	3	3	7
Purpose	5	4	2	1	2
Teacher	5	4	3	1	2
Bread	4	4	1	0	0
City	4	3	1	0	0
Computer	4	2	2	3	8
Forest	4	4	2	0	0
Friendship	4	4	1	15	68
Hospital	4	2	2	1	2
Light	4	3	2	1	2
Paper	4	2	4	0	0
Physical_fitness	4	2	3	1	2
Sport	4	1	3	0	0
Test (assessment)	4	4	0	0	0
Tree	4	3	2	3	9
Automobile	3	1	3	2	4
Bed	3	3	1	0	0
Book	3	2	2	1	2
Cat	3	3	2	1	4
Clock	3	3	2	2	4
Dog	3	3	2	4	14
Flower	3	2	2	0	0
Heart	3	0	3	1	2
Home	3	3	1	6	22
Money	3	2	1	2	8
Party	3	3	0	2	5
School	3	2	3	10	40
Dream	2	2	1	1	2
Goal	2	1	2	0	0
Joy	2	1	2	5	18
Peace	2	2	1	1	2
World	2	2	0	0	0
Ground	1	1	0	3	7
Pen	1	1	0	0	0
Sea	1	1	1	1	2
Shoe	1	1	0	1	2
Sorrow	1	1	1	3	12
Summer	1	1	0	1	2
Telephone	1	0	1	1	2
Travel	1	0	1	1	2
Work	1	0	1	12	45
Chair	0	0	0	1	2
Environment	0	0	0	3	6
Fun	0	0	0	0	0
Goodness	0	0	0	0	0
Growing	0	0	0	1	2
Holiday	0	0	0	2	4
Living	0	0	0	21	68
Management	0	0	0	0	0
Study	0	0	0	4	12
<i>Sum of start/end concepts in hyperlinks or relationships unique to each observed concept</i>	652 (93 unique to collection of all observed concepts)	422 (85 unique to collection of all observed concepts)	422 (88 unique to collection of all observed concepts)	288 (75 unique to collection of all observed concepts if word brother can represent word sister)	968 (75 unique to collection of all observed concepts if word brother can represent word sister)
<i>Average value</i>	6.392157	4.137255	4.137255	2.843137	9.584158
<i>Median value</i>	5	3.5	3	1	2

# Appendix I

Connectivity between 102 core concepts in the hyperlink network of the Wikipedia based on one fixed temporal version of the Wikipedia articles that have been available online in the Wikipedia in the beginning of March 2008 (last edited versions of articles and hyperlinks by date 3 March 2008).

<i>Observed hyperlink (all hyperlinks between 102 core concepts based on hyperlinks connecting corresponding Wikipedia articles)</i>		<i>Measurable properties concerning currently observed hyperlink</i>				
Start concept in hyperlink	End concept in hyperlink	Number of occurrences of hyperlink anchor in article text of start concept (several hyperlink anchors can exist in same article text)	Number of occurrences of hyperlink anchor for a hyperlink going into opposite direction (than original hyperlink) in article text of start concept of hyperlink going into opposite direction	Sum of occurrences of hyperlink anchor for hyperlinks going into original direction and hyperlink going into opposite direction	If between 102 core concepts there is a conceptual relationship mentioned by at least two students in concept maps drawn by students that corresponds to currently observed hyperlink then how many students have mentioned this relationship in concept maps (note that direction of relationship is not specified in concept maps)	If currently observed hyperlink departs from intro text section of article text of start concept a notation "from intro text section" is mentioned in this column
Biology	Evolution	9	1	10	less than 2	from intro text section
Human	Religion	9	1	10	less than 2	
Biology	Organism	8	2	10	less than 2	
Human	Philosophy	8	0	8	less than 2	
Dog	Pet	6	3	9	3	from intro text section
Book	Paper	5	1	6	less than 2	from intro text section
Father	Mother	5	2	7	6	from intro text section
Religion	Philosophy	5	2	7	less than 2	from intro text section
Time	Clock	5	4	9	less than 2	
Animal	Plant	4	2	6	less than 2	from intro text section
Biology	Animal	4	1	5	less than 2	
Clock	Time	4	5	9	less than 2	from intro text section
Death	Disease	4	1	5	4	from intro text section
Family	Marriage	4	3	7	less than 2	from intro text section
Hatred	Pleasure	4	1	5	less than 2	
Music	Time	4	0	4	less than 2	
Nature	Animal	4	1	5	8	
Sadness	Happiness	4	0	4	less than 2	from intro text section
Sadness	Pleasure	4	1	5	less than 2	
Sibling	Parent	4	1	5	less than 2	from intro text section
Water	Human	4	0	4	less than 2	from intro text section
Water	Oxygen	4	2	6	2	
Adolescence	Child	3	1	4	less than 2	
Adolescence	Childhood	3	1	4	less than 2	from intro text section

Atmosphere_of_Earth	Oxygen	3	0	3	less than 2	from intro text section
Biology	Plant	3	1	4	less than 2	
Cat	Dog	3	1	4	4	
Child	Childhood	3	2	5	less than 2	
Education	Philosophy	3	0	3	less than 2	from intro text section
Education	School	3	2	5	3	
Emotion	Sadness	3	3	6	less than 2	
Family	Mother	3	2	5	6	
Family	Sibling	3	2	5	2	
Future	Time	3	2	5	less than 2	
Health	Diet (nutrition)	3	1	4	less than 2	
Health	Physical_fitness	3	1	4	2	
Human	Animal	3	1	4	3	
Human	City	3	0	3	less than 2	
Human	Love	3	0	3	4	
Love	Pleasure	3	1	4	less than 2	
Marriage	Family	3	4	7	less than 2	from intro text section
Nature	Organism	3	0	3	less than 2	
Nature	Plant	3	1	4	5	
Parent	Mother	3	2	5	less than 2	from intro text section
Pet	Dog	3	6	9	3	from intro text section
Plant	Flower	3	1	4	less than 2	
Plant	Forest	3	1	4	less than 2	
Plant	Tree	3	0	3	5	from intro text section
Rain	Plant	3	0	3	less than 2	
Religion	God	3	1	4	less than 2	
Sadness	Emotion	3	3	6	less than 2	
Tree	Water	3	0	3	less than 2	
Water	Rain	3	1	4	less than 2	
Water	Sea	3	1	4	2	from intro text section
Animal	Organism	2	0	2	less than 2	from intro text section
Atmosphere_of_Earth	Organism	2	0	2	less than 2	from intro text section
Biology	Human	2	0	2	less than 2	
Bread	Food	2	1	3	less than 2	
Childhood	Child	2	3	5	less than 2	from intro text section
Childhood	Infant	2	1	3	less than 2	from intro text section
Death	Diet (nutrition)	2	1	3	less than 2	
Eating	Food	2	1	3	less than 2	from intro text section
Education	Adolescence	2	1	3	less than 2	
Education	Learning	2	2	4	less than 2	from intro text section
Emotion	Happiness	2	1	3	less than 2	
Emotion	Love	2	2	4	2	
Family	Father	2	1	3	7	
Father	Marriage	2	0	2	less than 2	from intro text section
Father	Parent	2	2	4	less than 2	from intro text section
Food	Animal	2	0	2	3	
Food	Plant	2	0	2	less than 2	
Food	Water	2	0	2	6	
Friendship	Love	2	2	4	8	
God	Nature	2	0	2	less than 2	
Hatred	Emotion	2	1	3	less than 2	
Hatred	Happiness	2	0	2	less than 2	
Hatred	Love	2	1	3	less than 2	
Hatred	Sadness	2	2	4	less than 2	
Health	Disease	2	0	2	2	from intro text section
Human	Adolescence	2	0	2	less than 2	
Human	Childhood	2	0	2	less than 2	
Human	Diet (nutrition)	2	0	2	less than 2	
Human	Emotion	2	0	2	less than 2	

Human	Evolution	2	0	2	less than 2	
Human	Music	2	0	2	less than 2	
Human	Old_age	2	0	2	less than 2	
Human	War	2	0	2	less than 2	
Infant	Child	2	1	3	less than 2	from intro text section
Learning	Education	2	2	4	less than 2	from intro text section
Light	Sun	2	0	2	less than 2	
Light	Time	2	1	3	less than 2	
Love	Biology	2	0	2	less than 2	
Love	Emotion	2	2	4	2	from intro text section
Love	Friendship	2	2	4	8	
Marriage	Love	2	1	3	less than 2	from intro text section
Mother	Family	2	3	5	6	
Mother	Father	2	5	7	6	from intro text section
Mother	Marriage	2	0	2	less than 2	
Mother	Parent	2	3	5	less than 2	from intro text section
Mother	Sibling	2	2	4	less than 2	
Nature	Biology	2	1	3	3	
Nature	Human	2	0	2	4	from intro text section
Nature	Oxygen	2	0	2	less than 2	
Nature	Sun	2	0	2	3	
Organism	Biology	2	8	10	less than 2	from intro text section
Oxygen	Plant	2	1	3	less than 2	from intro text section
Oxygen	Water	2	4	6	2	
Parent	Father	2	2	4	less than 2	from intro text section
Parent	Human	2	0	2	less than 2	from intro text section
Party	Television	2	0	2	less than 2	
People	Human	2	0	2	less than 2	from intro text section
People	Philosophy	2	0	2	less than 2	
Pet	Cat	2	1	3	less than 2	
Philosophy	Religion	2	5	7	less than 2	
Plant	Animal	2	4	6	less than 2	
Plant	Light	2	0	2	less than 2	
Plant	Organism	2	1	3	less than 2	from intro text section
Pleasure	Emotion	2	1	3	less than 2	
Pleasure	Happiness	2	0	2	less than 2	from intro text section
Sadness	Hatred	2	2	4	less than 2	
Sadness	Love	2	1	3	less than 2	
School	Education	2	3	5	3	from intro text section
Sibling	Family	2	3	5	2	from intro text section
Sibling	Father	2	1	3	less than 2	
Sibling	Love	2	0	2	less than 2	from intro text section
Sibling	Mother	2	2	4	less than 2	
Sun	Oxygen	2	1	3	less than 2	from intro text section
Teacher	School	2	1	3	2	
Time	Future	2	3	5	less than 2	
Tree	Forest	2	1	3	less than 2	
War	Peace	2	1	3	less than 2	
Adolescence	Education	1	2	3	less than 2	
Adolescence	Infant	1	1	2	less than 2	
Adolescence	Old_age	1	1	2	less than 2	
Adolescence	Sport	1	0	1	less than 2	
Adolescence	Television	1	0	1	less than 2	
Animal	Atmosphere_of_Earth	1	1	2	less than 2	
Animal	Biology	1	4	5	less than 2	
Animal	Evolution	1	0	1	less than 2	
Animal	Human	1	3	4	3	



Animal	Nature	1	4	5	8	
Animal	Oxygen	1	0	1	less than 2	
Animal	Time	1	0	1	less than 2	
Animal	Water	1	0	1	less than 2	
Atmosphere_of_Earth	Animal	1	1	2	less than 2	
Atmosphere_of_Earth	Automobile	1	0	1	less than 2	
Atmosphere_of_Earth	Biology	1	1	2	less than 2	
Atmosphere_of_Earth	Evolution	1	0	1	less than 2	
Atmosphere_of_Earth	Nature	1	1	2	less than 2	
Atmosphere_of_Earth	Plant	1	1	2	less than 2	
Atmosphere_of_Earth	Time	1	0	1	less than 2	
Automobile	Oxygen	1	1	2	less than 2	
Bed	Dream	1	1	2	less than 2	
Bed	Hospital	1	0	1	less than 2	
Bed	Infant	1	0	1	less than 2	
Biology	Atmosphere_of_Earth	1	1	2	less than 2	
Biology	Health	1	1	2	less than 2	
Biology	Nature	1	2	3	3	
Biology	Time	1	0	1	less than 2	
Birth	Animal	1	0	1	less than 2	from intro text section
Birth	Death	1	0	1	13	
Birth	Mother	1	0	1	less than 2	from intro text section
Birth	Sun	1	0	1	less than 2	
Book	Music	1	0	1	less than 2	
Bread	Money	1	0	1	less than 2	
Bread	Paper	1	0	1	less than 2	from intro text section
Bread	Water	1	0	1	less than 2	from intro text section
Cat	Human	1	0	1	less than 2	from intro text section
Cat	Pet	1	2	3	less than 2	
Child	Adolescence	1	3	4	less than 2	
Child	Family	1	1	2	7	
Child	Infant	1	2	3	less than 2	
Child	Leisure	1	0	1	less than 2	
Child	Marriage	1	0	1	less than 2	
Child	Old_age	1	1	2	less than 2	
Child	Parent	1	1	2	less than 2	from intro text section
Child	Sibling	1	0	1	less than 2	
Childhood	Adolescence	1	3	4	less than 2	
Childhood	Old_age	1	1	2	less than 2	
City	Automobile	1	0	1	less than 2	
City	Rain	1	0	1	less than 2	
City	Religion	1	0	1	less than 2	
Clock	Computer	1	0	1	2	
Clock	Future	1	1	2	less than 2	
Clothing	Marriage	1	0	1	less than 2	
Clothing	Paper	1	1	2	less than 2	
Clothing	Religion	1	0	1	less than 2	from intro text section
Clothing	Television	1	0	1	less than 2	
Computer	Telephone	1	0	1	less than 2	
Computer	Television	1	0	1	4	
Death	Evolution	1	0	1	less than 2	
Death	Heart	1	0	1	less than 2	
Death	Human	1	0	1	3	
Death	Organism	1	0	1	less than 2	from intro text section
Death	Oxygen	1	0	1	less than 2	
Death	Physical_fitness	1	0	1	less than 2	
Death	War	1	0	1	3	
Diet_(nutrition)	Death	1	2	3	less than 2	from intro text section

Diet_(nutrition)	Health	1	3	4	less than 2	from intro text section
Diet_(nutrition)	Organism	1	0	1	less than 2	from intro text section
Diet_(nutrition)	Religion	1	0	1	less than 2	from intro text section
Disease	Death	1	4	5	4	from intro text section
Dog	Adolescence	1	0	1	less than 2	
Dog	Cat	1	3	4	4	
Dream	Bed	1	1	2	less than 2	
Dream	God	1	0	1	less than 2	
Eating	Animal	1	0	1	less than 2	from intro text section
Eating	Human	1	0	1	less than 2	from intro text section
Eating	Organism	1	0	1	less than 2	from intro text section
Eating	Plant	1	0	1	less than 2	from intro text section
Education	Biology	1	0	1	less than 2	
Education	Child	1	0	1	less than 2	
Education	Childhood	1	0	1	less than 2	
Education	Family	1	0	1	less than 2	
Education	Human	1	0	1	less than 2	
Education	Leisure	1	1	2	less than 2	
Education	Marriage	1	0	1	less than 2	
Education	Sibling	1	0	1	less than 2	
Education	Teacher	1	1	2	less than 2	
Emotion	Evolution	1	0	1	less than 2	from intro text section
Emotion	Experience	1	0	1	less than 2	from intro text section
Emotion	Hatred	1	2	3	less than 2	
Emotion	Joy	1	0	1	less than 2	
Emotion	Pleasure	1	2	3	less than 2	
Evolution	Biology	1	9	10	less than 2	from intro text section
Evolution	Organism	1	1	2	less than 2	
Evolution	Oxygen	1	0	1	less than 2	
Evolution	Philosophy	1	0	1	less than 2	
Evolution	Plant	1	0	1	less than 2	
Experience	Philosophy	1	0	1	less than 2	
Experience	Time	1	0	1	less than 2	
Family	Child	1	1	2	7	
Family	Leisure	1	1	2	less than 2	
Father	Family	1	2	3	7	
Father	Love	1	0	1	less than 2	
Father	Sibling	1	2	3	less than 2	
Flower	Evolution	1	0	1	less than 2	
Flower	Plant	1	3	4	less than 2	
Food	Bread	1	2	3	less than 2	
Food	Computer	1	0	1	less than 2	
Food	Death	1	0	1	less than 2	
Food	Diet_(nutrition)	1	0	1	less than 2	
Food	Eating	1	2	3	less than 2	from intro text section
Food	Health	1	1	2	3	
Food	Human	1	0	1	less than 2	
Food	School	1	0	1	less than 2	
Food	War	1	0	1	less than 2	
Forest	Flower	1	0	1	less than 2	
Forest	Plant	1	3	4	less than 2	
Forest	Rain	1	0	1	less than 2	
Forest	Tree	1	2	3	less than 2	from intro text section
Friendship	Adolescence	1	0	1	2	
Friendship	Animal	1	0	1	less than 2	
Friendship	Philosophy	1	0	1	less than 2	from intro text section
Future	Clock	1	1	2	less than 2	
Future	Death	1	0	1	less than 2	
Future	Evolution	1	0	1	less than 2	
Future	Human	1	0	1	less than 2	
Future	Philosophy	1	0	1	less than 2	

Future	Religion	1	0	1	less than 2	
Goal	Purpose	1	1	2	less than 2	
God	Father	1	0	1	less than 2	
God	Philosophy	1	1	2	less than 2	
God	Religion	1	3	4	less than 2	from intro text section
Ground	Philosophy	1	0	1	less than 2	
Happiness	Emotion	1	2	3	less than 2	from intro text section
Happiness	Joy	1	1	2	less than 2	from intro text section
Health	Biology	1	1	2	less than 2	
Health	Food	1	1	2	3	
Hobby	Book	1	0	1	less than 2	
Hobby	Eating	1	0	1	less than 2	
Hobby	Education	1	0	1	less than 2	
Hobby	Food	1	0	1	less than 2	
Hobby	House	1	0	1	less than 2	
Hobby	Leisure	1	0	1	3	from intro text section
Hobby	Plant	1	0	1	less than 2	
Hobby	Sport	1	0	1	less than 2	
Home	Family	1	0	1	9	from intro text section
Home	House	1	1	2	3	
Home	Love	1	0	1	less than 2	
Hospital	Disease	1	0	1	less than 2	
Hospital	Health	1	0	1	less than 2	
House	Family	1	0	1	3	from intro text section
House	Home	1	1	2	3	from intro text section
House	Pet	1	0	1	less than 2	
House	Television	1	0	1	less than 2	
Human	Clothing	1	0	1	less than 2	
Human	Family	1	0	1	4	
Human	God	1	0	1	less than 2	
Human	Happiness	1	0	1	less than 2	
Human	Health	1	0	1	less than 2	
Human	House	1	0	1	less than 2	
Human	Oxygen	1	0	1	less than 2	
Infant	Adolescence	1	1	2	less than 2	
Infant	Childhood	1	2	3	less than 2	
Infant	Health	1	0	1	less than 2	
Infant	Hospital	1	0	1	less than 2	
Infant	Old_age	1	1	2	less than 2	
Joy	Happiness	1	1	2	less than 2	
Learning	Experience	1	0	1	less than 2	from intro text section
Learning	Physical_fitness	1	0	1	less than 2	
Learning	Time	1	0	1	less than 2	
Leisure	Eating	1	0	1	less than 2	from intro text section
Leisure	Education	1	1	2	less than 2	from intro text section
Leisure	Family	1	1	2	less than 2	
Leisure	Marriage	1	1	2	less than 2	
Leisure	Sibling	1	0	1	less than 2	
Leisure	Television	1	0	1	2	
Leisure	Time	1	0	1	less than 2	from intro text section
Leisure	Work	1	0	1	less than 2	from intro text section
Light	Television	1	0	1	less than 2	
Love	Family	1	0	1	13	from intro text section
Love	Happiness	1	0	1	3	
Love	Hatred	1	2	3	less than 2	
Love	Marriage	1	2	3	less than 2	
Love	Philosophy	1	0	1	less than 2	
Love	Religion	1	0	1	less than 2	
Love	Sadness	1	2	3	less than 2	
Marriage	Death	1	0	1	less than 2	
Marriage	Emotion	1	0	1	less than 2	
Marriage	God	1	0	1	less than 2	

Marriage	Leisure	1	1	2	less than 2	
Marriage	Religion	1	0	1	less than 2	from intro text section
Marriage	Sibling	1	1	2	less than 2	
Money	Food	1	0	1	less than 2	
Money	Water	1	0	1	less than 2	
Mother	Human	1	0	1	less than 2	from intro text section
Mother	Leisure	1	0	1	less than 2	
Mother	Love	1	0	1	2	
Music	Religion	1	0	1	less than 2	
Music	Television	1	0	1	less than 2	
Nature	Atmosphere_of_Earth	1	1	2	less than 2	
Nature	Evolution	1	0	1	less than 2	
Nature	Time	1	0	1	less than 2	
Old_age	Adolescence	1	1	2	less than 2	
Old_age	Biology	1	0	1	less than 2	from intro text section
Old_age	Child	1	1	2	less than 2	
Old_age	Childhood	1	1	2	less than 2	
Old_age	Death	1	0	1	3	
Old_age	Infant	1	1	2	less than 2	
Organism	Evolution	1	1	2	less than 2	
Organism	Heart	1	0	1	less than 2	
Organism	Plant	1	2	3	less than 2	
Oxygen	Automobile	1	1	2	less than 2	
Oxygen	Disease	1	0	1	less than 2	
Oxygen	Heart	1	0	1	less than 2	
Oxygen	Philosophy	1	0	1	less than 2	
Oxygen	Rain	1	0	1	less than 2	
Oxygen	Sport	1	0	1	less than 2	
Oxygen	Sun	1	2	3	less than 2	
Paper	Book	1	5	6	less than 2	
Paper	Clothing	1	1	2	less than 2	
Parent	Birth	1	0	1	less than 2	from intro text section
Parent	Child	1	1	2	less than 2	
Parent	Sibling	1	4	5	less than 2	
Party	Family	1	0	1	less than 2	
Party	Music	1	0	1	less than 2	
Peace	Education	1	0	1	less than 2	
Peace	War	1	2	3	less than 2	
Pen	Paper	1	0	1	less than 2	from intro text section
People	Purpose	1	0	1	less than 2	
People	Religion	1	0	1	less than 2	
Pet	Animal	1	0	1	less than 2	from intro text section
Pet	People	1	0	1	less than 2	
Philosophy	God	1	1	2	less than 2	
Philosophy	Music	1	0	1	less than 2	
Physical_fitness	Diet_(nutrition)	1	0	1	less than 2	
Physical_fitness	Health	1	3	4	2	from intro text section
Plant	Atmosphere_of_Earth	1	1	2	less than 2	
Plant	Biology	1	3	4	less than 2	
Plant	Nature	1	3	4	5	
Plant	Oxygen	1	2	3	less than 2	
Plant	Time	1	0	1	less than 2	
Plant	Water	1	1	2	less than 2	
Pleasure	Hatred	1	4	5	less than 2	
Pleasure	Love	1	3	4	less than 2	
Pleasure	Music	1	0	1	less than 2	
Pleasure	Philosophy	1	0	1	less than 2	
Pleasure	Sadness	1	4	5	less than 2	
Purpose	Goal	1	1	2	less than 2	from intro text section
Purpose	God	1	0	1	less than 2	
Purpose	Happiness	1	0	1	less than 2	
Purpose	Philosophy	1	0	1	less than 2	
Rain	Sun	1	0	1	less than 2	
Rain	Water	1	3	4	less than 2	from intro text section

Religion	Evolution	1	0	1	less than 2	
Religion	Human	1	9	10	less than 2	
Religion	Sun	1	0	1	less than 2	
Sadness	Sorrow	1	1	2	less than 2	from intro text section
School	Teacher	1	2	3	2	from intro text section
Sea	Water	1	3	4	2	
Shoe	Clothing	1	0	1	2	
Sibling	Marriage	1	1	2	less than 2	
Sorrow	Sadness	1	1	2	less than 2	
Sport	Television	1	0	1	less than 2	
Summer	Plant	1	0	1	less than 2	
Sun	Plant	1	0	1	less than 2	
Teacher	Education	1	1	2	less than 2	
Teacher	Goal	1	0	1	less than 2	
Teacher	Learning	1	0	1	less than 2	
Test_(assessment)	Education	1	0	1	less than 2	from intro text section
Test_(assessment)	Music	1	0	1	less than 2	
Test_(assessment)	Philosophy	1	0	1	less than 2	
Test_(assessment)	Teacher	1	0	1	less than 2	
Time	Education	1	0	1	less than 2	
Time	God	1	0	1	less than 2	
Time	Light	1	2	3	less than 2	
Time	Philosophy	1	0	1	less than 2	from intro text section
Time	Religion	1	0	1	less than 2	from intro text section
Time	Television	1	0	1	less than 2	
Tree	Oxygen	1	0	1	less than 2	from intro text section
War	Disease	1	0	1	less than 2	
War	Hatred	1	0	1	less than 2	
War	Religion	1	0	1	less than 2	
Water	Biology	1	0	1	less than 2	
Water	Organism	1	0	1	less than 2	
Water	Plant	1	1	2	less than 2	
Water	Sun	1	0	1	less than 2	
Water	Time	1	0	1	less than 2	
Water	Travel	1	0	1	less than 2	
World	Experience	1	0	1	less than 2	from intro text section
World	Human	1	0	1	less than 2	from intro text section

## Appendix J

Listing of all 212 hyperlinks belonging to “hyperlink network of 55 concepts” that was used in exploration experiment with students (n=49). All these 212 hyperlinks are connecting concepts that are reachable (by traversing one or more intermediate hyperlinks) from concept Human in exploration paths (containing 55 concepts including concept Human). All these 212 hyperlinks are shown here supplied with a relation statement for each hyperlink in English and its Finnish translation. In relation statement the start concept has been indicated with a notation starting with character string “A1” and ending with character string “A2” and the end concept has been indicated with a notation starting with character string “B1” and ending with character string “B2”. These notations helped to automatically highlight with different colors both start concept and end concept in relation statement when it was shown to the student during exploration experiment.

Relation statements have been extracted from the article of start concept, primarily taken around hyperlink pointing to end concept, but possibly with some modifications. Please note that due to lack of suitable sentence surrounding hyperlink anchor of start concept of hyperlink some of the relation statements are generated and synthesized based on other contextual text segments we identified relatively near the hyperlink anchor or possibly based on relation statement we managed to identify for another hyperlink going into opposite direction (i.e. for a hyperlink whose start concept is end concept of current hyperlink and end concept is start concept of current hyperlink). In column 3 relation statement is supplied with notation “(taken from other part of article)” if this relation statement has been generated and synthesized with this special method but this additional notation was not shown to the student.

Hyperlink		Relation statement (extracted from the article of start concept, primarily taken around hyperlink pointing to end concept, but possibly with some modifications)	
Start concept in hyperlink	End concept in hyperlink	Relation statement in English (original language version)	Relation statement translated to Finnish
Adolescence	Child	in A1adolescenceA2 B1childB2 develops sex characteristics	A1nuoruudessaA2 B1lapselleB2 kehittyty sukupuoliominaisuuksia
Adolescence	Education	in A1adolescenceA2 B1educationB2 of children changes from elementary school to secondary school (taken from other part of article)	A1nuoruudessaA2 lasten B1koulutusB2 siirtyy alakoulusta yläkouluun
Adolescence	Old_age	B1old ageB2 is a matured stage of personal development which contains also A1adolescenceA2 (taken from other part of article)	B1vanhuusB2 on kypsytynyt vaihe yksilönkehityksessä johon myös A1nuoruusA2 kuuluu
Adolescence	Television	B1televisionB2 programs are popular amongst A1adolescentsA2	B1televisioB2-ohjelmat ovat suosittuja A1nuortenA2 keskuudessa
Animal	Biology	in nature B1biologyB2 has a central role for life such as A1animalsA2 (taken from other part of article)	luonnossa B1biologiallaB2 on keskeinen merkitys elämälle, kuten A1eläimilleA2
Animal	Human	when talking about A1animalsA2 it is often referred to other animals than B1humansB2	A1eläimistäA2 puhuttaessa usein viitataan muihin eläimiin kuin B1ihmisiinB2
Animal	Nature	B1natureB2 has a central role for A1animalsA2 (taken from other part of article)	B1luonnollaB2 on keskeinen merkitys A1eläimilleA2
Animal	Organism	A1animalsA2 are multicellular B1organismsB2	A1eläimetA2 ovat monisoluisia B1eliöitäB2
Animal	Oxygen	A1animalsA2 benefit from process in which the energy of sunlight helps to release B1oxygenB2 (taken from other part of article)	A1eläimetA2 hyötyvät siitä että auringonvalon energian avulla vapautuu B1happeaB2
Animal	Plant	A1animalsA2 generally digest food internally which separates them from B1plantsB2 (taken from other part of article)	A1eläimetA2 yleensä sulattavat ravinnon sisäisesti mikä erottaa ne B1kasveistaB2
Animal	Water	A1animalsA2 benefit from plants which with carbon dioxide and B1waterB2 store the energy of sunlight (taken from other part of article)	A1eläimetA2 hyötyvät kasveista jotka hiilidioksidin ja B1vedenB2 avulla varastoivat auringonvalon energiaa
Automobile	Oxygen	Francois Rivaz designed the first A1automobileA2 that was fuelled by hydrogen and B1oxygenB2	Francois Rivaz suunnitteli ensimmäisen vetyä ja B1happeaB2 polttoaineena käyttäneen A1autonA2
Biology	Animal	zoology that belongs to A1biologyA2 involves	A1biologianA2 osana oleva eläintiede on

		the study of B1animalsB2 (taken from other part of article)	B1eläimiinB2 kohdistuvaa tutkimusta
Biology	Health	A1biologyA2 is considered as a general effective factor to B1healthB2 (taken from other part of article)	A1biologiaaA2 pidetään yleisenä vaikuttavana tekijänä B1terveyteenB2
Biology	Human	cell biology that belongs to A1biologyA2 researches multicellular organisms like B1humansB2	A1biologianA2 osana oleva solubiologia tutkii monisoluisia eliöitä, kuten B1ihmisiäB2
Biology	Nature	B1natureB2 has a central role for A1biologyA2 (taken from other part of article)	B1luonnollaB2 on keskeinen merkitys A1biologiassaA2
Biology	Organism	based on A1biologyA2 all B1organismsB2 descend from a common ancestor or gene pool (taken from other part of article)	A1biologianA2 perusteella kaikki B1eliötB2 periytyvät yhteisistä esivanhemmista tai geenijoukosta
Biology	Plant	botany that belongs to A1biologyA2 is the scientific study of B1plantsB2 (taken from other part of article)	A1biologianA2 osana oleva kasvitiede on B1kasvienB2 tieteellistä tutkimista
Birth	Animal	in A1birthA2 an offspring of an B1animalB2 is expelled from the body of its mother	A1syntymässäA2 B1eläimenB2 jälkeläinen poistuu äidin kehosta
Birth	Death	there are beliefs about a new A1birthA2 after B1deathB2 (taken from other part of article)	on uskomuksia uudelleen A1syntymisestäA2 B1kuolemanB2 jälkeen
Birth	Mother	in A1birthA2 an offspring of an animal is expelled from the body of its B1motherB2	A1syntymässäA2 eläimen jälkeläinen poistuu B1äidinB2 kehosta
Birth	Sun	there are beliefs that an individual's life is influenced by the positions of the B1SunB2 in the sky at the moment of A1birthA2	on uskomuksia että elämään vaikuttaa B1auringonB2 sijainti taivaalla A1syntymänA2 hetkellä
Cat	Dog	A1catsA2 do not hunt in groups as B1dogsB2 do	A1kissatA2 eivät saalista ryhmissä, kuten B1koiratB2
Cat	Human	A1catA2 is a crepuscular mammal that is often valued by B1humansB2	A1kissaA2 on hämärässä liikkuva nisäkäs, josta B1ihmisetB2 usein pitävät
Cat	Pet	some people keep A1catsA2 as B1petsB2	jotkut pitävät A1kissojaA2 B1lemmikkieläiminäB2
Child	Adolescence	B1adolescenceB2 is a legally important stage in personal development which contains also A1childhoodA2	B1nuoruusB2 on oikeudellisesti tärkeä vaihe yksilönkehityksessä, johon myös A1lapsuusA2 kuuluu
Child	Family	according to the declaration of human rights that covers also A1childrenA2 everyone has right for B1familyB2 life (taken from other part of article)	myös A1lapsiaA2 koskevan ihmisoikeuksien julistuksen mukaan kaikille kuuluu oikeus B1perheB2-elämään
Child	Leisure	according to the declaration of human rights that covers also A1childrenA2 everyone has right for B1leisureB2 (taken from other part of article)	myös A1lapsiaA2 koskevan ihmisoikeuksien julistuksen mukaan kaikille kuuluu oikeus B1vapaa-aikaanB2
Child	Old_age	B1old ageB2 is a matured stage of personal development which contains also A1childhoodA2 (taken from other part of article)	B1vanhuusB2 on kypsytynyt vaihe yksilönkehityksessä, johon myös A1lapsuusA2 kuuluu
Child	Parent	A1childA2 as a term may define a relationship with a B1parentB2 or authority (taken from other part of article)	A1lapsiA2 käsitteenä voi määritellä suhteen B1vanhempaanB2 tai auktoriteettiin
Child	Sibling	according to the declaration of human rights that covers also A1childrenA2 everyone has right for B1brotherhoodB2 (taken from other part of article)	myös A1lapsiaA2 koskevan ihmisoikeuksien julistuksen mukaan kaikille kuuluu oikeus B1sisarusB2suhteisiin
Clothing	Religion	A1clothingA2 is worn to reflect meaning of B1religionB2 (taken from other part of article)	A1vaatetustaA2 käytetään heijastamaan B1uskonnonB2 merkityksiä
Clothing	Television	in A1clothingA2 costume history serves as a topic of professional interest to costumers constructing for B1televisionB2 (taken from other part of article)	A1vaatetuksessaA2 pukujen historia on ammatillisesti kiinnostava puvustajille B1televisiossaB2
Computer	Telephone	personal A1computersA2 are becoming as common as the B1telephoneB2	henkilökohtaiset A1tietokoneetA2 ovat tulossa yhtä yleiseksi kuin B1puhelinB2
Computer	Television	personal A1computersA2 are becoming as common as the B1televisionB2	henkilökohtaiset A1tietokoneetA2 ovat tulossa yhtä yleiseksi kuin B1televisioB2
Death	Diet_(nutrition)	causes of A1deathA2 can be postponed by B1dietB2	syitä A1kuolemaanA2 voidaan lykätä B1ravinnollaB2
Death	Disease	many factors can contribute to an organism's A1deathA2, including B1diseaseB2	eliön A1kuolemaanA2 voivat vaikuttaa useat tekijät mukaan lukien B1sairaudetB2
Death	Heart	A1deathA2 was once defined as the cessation of beating of B1heartB2	aikoinaan A1kuolemaA2 määriteltiin B1sydämenB2 lyönnin pysähtymisenä
Death	Human	an autopsy is examination of a B1humanB2 corpse to determine the cause of a person's A1deathA2	ruumiinavaus on B1ihmisenB2 ruumiin tutkiminen A1kuolemanA2 syyn selvittämiseksi
Death	Organism	A1deathA2 is the end of the life of a biological B1organismB2	A1kuolemaA2 on biologisen B1eliönB2 elämän päättymisen
Death	Oxygen	a loss of homeostasis of body related to A1deathA2 causes loss of B1oxygenB2	A1kuolemaanA2 liittyvä elimistön tasapainon menetys aiheuttaa B1hapenB2 puutetta

Death	War	B1warB2 can be considered as a situation whereby A1deathA2 assumes absolute value (taken from article War)	B1sotaaB2 voidaan pitää tilanteena, jossa A1kuolemaA2 saa ehdottoman aseman
Diet_(nutrition)	Death	A1dietaryA2 habits and choices play a significant role in prevalenceTARKISTA of B1deathB2	A1ravintoonA2 liittyvillä tavoilla ja valinnoilla on suuri merkitys B1kuolemanB2 esiintyvyyteen
Diet_(nutrition)	Health	A1dietaryA2 habits and choices play a significant role in B1healthB2	A1ravintoonA2 liittyvillä tavoilla ja valinnoilla on suuri merkitys B1terveyteenB2
Diet_(nutrition)	Organism	the A1dietA2 is the sum of food consumed by an B1organismB2	A1ravintoA2 on kokonaisuus ruoasta, jonka B1eliöB2 nauttii
Diet_(nutrition)	Religion	A1dietaryA2 habits and choices play a significant role in B1religionB2	A1ravintoonA2 liittyvillä tavoilla ja valinnoilla on suuri merkitys B1uskonnolleB2
Disease	Death	A1diseaseA2 is often used to refer to a uncomfortable condition possibly leading to B1deathB2	A1sairaudellaA2 viitataan usein epämiellyttävään mahdollisesti B1kuolemaanB2 johtavaan olotilaan
Dog	Adolescence	B1adolescenceB2 for most domestic A1dogsA2 is around age of 12 to 15 months	B1nuoruusB2vaihe useimmille kesyA1koirilleA2 on 12-15 kuukauden iässä
Dog	Cat	unlike the B1catB2 the A1dogA2 is not dependent on meat based protein in diet	toisin kuin B1kissaB2 A1koiraA2 ei ole riippuvainen lihaperäisestä proteiinista ravinnossa
Dog	Pet	the domestic A1dogA2 has been one of the most widely-kept working animals and B1petsB2 in human history	kesyA1koiraA2 on ollut eräs yleisimpiä työ- ja B1lemmikkielämiäB2 ihmisen historiassa
Education	Adolescence	A1educationA2 in secondary school occurs during B1adolescenceB2	yläluokilla tarjottava A1koulutusA2 tapahtuu B1nuoruudenB2 aikana
Education	Biology	educational psychology related to A1educationA2 is based on psychology like medicine is based on B1biologyB2 (taken from other part of article)	A1koulutustaA2 koskeva kasvatuspsykologia pohjautuu psykologiaan, kuten lääketiede pohjautuu B1biologiaanB2
Education	Child	A1educationA2 is a challenging task requiring an understanding of who B1childrenB2 are	A1koulutusA2 on vaativa tehtävä edellyttäen sen ymmärtämistä, millaisia B1lapsetB2 ovat
Education	Family	according to the declaration of human rights that covers also A1educationA2 everyone has right for B1familyB2 life	myös A1koulutustaA2 koskevan ihmisoikeuksien julistuksen mukaan kaikille kuuluu oikeus B1perheB2-elämään
Education	Human	A1educationA2 is a means to foster future development of B1humansB2	A1koulutusA2 on keino edistää B1ihmistenB2 tulevaisuuden kehittymistä
Education	Learning	A1educationA2 encompasses teaching and B1learningB2 specific skills	A1koulutusA2 sisältää erityisten taitojen opettamista ja B1oppimistaB2
Education	Leisure	according to the declaration of human rights that covers also A1educationA2 everyone has right for B1leisureB2	myös A1koulutustaA2 koskevan ihmisoikeuksien julistuksen mukaan kaikille kuuluu oikeus B1vapaa-aikaanB2
Education	School	progress based on A1educationA2 depends on having capacities that B1schoolingB2 can educate (taken from other part of article)	A1koulutukseenA2 perustuva kehitys riippuu kyvyistä joita B1koulunB2käynti voi opettaa
Education	Sibling	according to the declaration of human rights that covers also A1educationA2 everyone has right for B1brotherhoodB2 (taken from other part of article)	myös A1koulutustaA2 koskevan ihmisoikeuksien julistuksen mukaan kaikille kuuluu oikeus B1sisarusB2suhteisiin
Education	Teacher	in A1educationA2 informal relationships can be established between B1teachersB2 and students (taken from other part of article)	A1koulutuksessaA2 voi esiintyä epämuodollisia suhteita B1opettajienB2 ja opiskelijoiden välillä
Emotion	Experience	different A1emotionsA2 are associated with relatively distinct subjective B1experienceB2	erilaisia A1tunteitaA2 liittyy suhteellisen erillisiin omakohtaisiin B1kokemuksiinB2
Emotion	Happiness	list of basic A1emotionsA2 devised by Paul Ekman contains B1happinessB2 (taken from other part of article)	Paul Ekmanin ehdottama luettelo perusA1tunteistaA2 sisältää B1onnellisuudenB2
Emotion	Joy	according to Rober Plutchik B1joyB2 belongs to eight primary A1emotionsA2 (taken from other part of article)	Robert Plutchikin mukaan kahdeksaan ensisijaiseen A1tunteeseenA2 kuuluu B1iloB2
Emotion	Love	human A1emotionA2 of B1loveB2 is proposed to have evolved from the care of offspring	ihmisen B1rakkautenB2 A1tunteenA2 on ehdotettu kehittyneen jälkeläisistä huolehtimisesta
Family	Child	A1familyA2 serves to give social orientation for B1childrenB2 (taken from other part of article)	A1perheA2 auttaa B1lastaB2 suuntautumaan sosiaalisesti
Family	Father	concerning A1familyA2 a B1fatherB2 is a male parent (taken from other part of article)	A1perheeseenA2 liittyen B1isäB2 on miespuolinen vanhempi
Family	Leisure	according to the declaration of human rights that covers also A1familyA2 everyone has right for B1leisureB2 (taken from other part of article)	myös A1perhettäA2 koskevan ihmisoikeuksien julistuksen mukaan kaikilla on oikeus B1vapaa-aikaanB2
Family	Mother	concerning A1familyA2 a B1motherB2 is a female parent (taken from other part of	A1perheeseenA2 liittyen B1äitiB2 on naispuolinen vanhempi



		article)	
Family	Sibling	in A1familyA2 a B1siblingB2 is a child of the same parents (taken from other part of article)	A1perheessäA2 henkilön B1sisarusB2 on lapsi, jolla on samat vanhemmat
Father	Family	like B1familyB2 also role of A1fatherA2 can be considered to implement ruling (taken from other part of article)	kuten B1perhettäB2, myös A1isänA2 roolia voidaan pitää hallinnan ilmentäjinä
Father	Love	B1loveB2 belongs to relationships concerning A1fatherA2 (taken from other part of article)	A1isääA2 koskeviin ihmissuhteisiin kuuluu B1rakkausB2
Father	Mother	previously social rules determined who would be regarded as a A1fatherA2 i.e. the husband of the B1motherB2	ennen sosiaaliset säännöt määräisivät kenet katsottiin A1isäksiA2 eli B1äidinB2 mieheksi
Father	Parent	A1fatherA2 is a male B1parentB2 of an offspring	A1isääA2 on jälkeläisen miespuolinen B1vanhempiB2
Father	Sibling	concerning A1fatherA2 the B1siblingsB2 belong to the closest members of family (taken from other part of article)	A1isäänA2 liittyviin lähimpiin perheenjäseniin kuuluvat B1sisaruksetB2
Food	Animal	meat is an example of A1foodA2 directly coming from an B1animalB2 (taken from other part of article)	liha on esimerkki A1ruoastaA2 joka saadaan suoraan B1eläimestäB2
Food	Computer	control systems based on B1computersB2 can improve safety of A1foodA2	B1tietokoneisiinB2 perustuvat valvontajärjestelmät voivat parantaa A1ruoanA2 turvallisuutta
Food	Death	habits of consuming A1foodA2 play a significant role in the prevalence of B1deathB2	A1ruoanA2 käyttötottumuksilla on huomattava merkitys B1kuolemanB2 esiintymiseen
Food	Diet_(nutrition)	in A1foodA2 inorganic substances, like water, are important part of human B1dietB2 (taken from other part of article)	A1ruoassaA2 epäorgaaniset aineet, kuten vesi, ovat tärkeä osa ihmisen B1ravintoaB2
Food	Health	habits of consuming A1foodA2 play a significant role in the B1healthB2	A1ruoanA2 käyttötottumuksilla on huomattava merkitys B1terveyteenB2
Food	Human	the listing of A1foodA2stuffs include any substance ingested by B1humansB2	luettelo A1ruokaA2-aineista sisältää kaikenlaisia aineita, joita B1ihmisetB2 nauttivat ravinnoksi
Food	Plant	Many B1plantsB2 or their parts are eaten as A1foodA2.	useita B1kasvejaB2 tai niiden osia syödään A1ruokanaA2
Food	School	concerning A1foodA2 in out-of-home dining 6.6% of expenditures were based on B1schoolsB2 (taken from other part of article)	kodin ulkopuolisessa A1ruoanA2 nauttimisessa 6,6 prosenttia kuluista tapahtuu B1kouluissaB2
Food	War	production of A1foodA2 is influenced by international organizations and B1warB2	A1ruoanA2 tuotantoon vaikuttavat kansainväliset järjestöt ja B1sodanB2käynti
Food	Water	in A1foodA2 inorganic substances, like B1waterB2, are important part of human diet (taken from other part of article)	A1ruoassaA2 epäorgaaniset aineet, kuten B1vesiB2, ovat tärkeä osa ihmisen ravintoa
Friendship	Adolescence	A1friendshipsA2 are often the most important human relationships of the emotional life in B1adolescenceB2 (taken from other part of article)	A1ystävyyttäA2suhteet ovat usein tärkeimpiä tunne-elämän ihmissuhteita B1nuoruudessaB2
Friendship	Animal	in interpersonal relationships A1friendshipsA2 are found also among B1animalsB2 with high intelligence (taken from other part of article)	yksilöiden välisissä suhteissa A1ystävyyttäA2 esiintyy myös älykkäillä B1eläimilläB2
Friendship	Love	concerning A1friendshipA2 B1loveB2 is above all other motives as an inspiration (taken from other part of article)	A1ystävyyteenA2 liittyen B1rakkausB2 on kaikkien muiden motiivien yläpuolella innoittaja
God	Father	interpretation of A1godA2 as a B1fatherB2 is common in monotheistic Western culture (taken from other part of article)	yksijumalaisessa länsimaisessa kulttuurissa tulkinta A1jumalastaA2 B1isäB2hahmona on yleinen
God	Nature	concerning B1natureB2 questions about the characteristics of A1godA2 are non-empirical and are domain of theology (taken from other part of article)	B1luontoaB2 koskien kysymykset A1jumalanA2 olemuksesta ovat ei-empiirisiä ja kuuluvat teologiaan
God	Religion	a A1godA2 most commonly refers to the deity worshiped by B1religionsB2	A1jumalaA2 useimmin viittaa yliluonnolliseen hahmoon, jota palvotaan B1uskonnoissaB2
Happiness	Emotion	A1happinessA2 is B1emotionB2 covering experiences ranging from satisfaction to joy (taken from other part of article)	A1onnellisuusA2 on B1tunneB2tila kattaen kokemuksia tyytyväisyydestä iloon
Happiness	Joy	A1happinessA2 is emotion covering experiences ranging from satisfaction to B1joyB2	A1onnellisuusA2 on tunnetila kattaen kokemuksia tyytyväisyydestä B1iloonB2
Health	Biology	A1healthA2 research builds primarily on the basic sciences like B1biologyB2 (taken from other part of article)	A1terveyttäA2 koskeva tutkimus rakentuu pääasiallisesti perustieteisiin, kuten B1biologiaanB2
Health	Diet_(nutrition)	bodily A1healthA2 is the result of e.g. regular	elimistön A1terveysA2 on seurausta mm.

		proper B1dietB2	kunnollisesta B1ravinnostaB2
Health	Disease	A1healthA2 is a state of complete well-being and not merely the absence of B1diseaseB2	A1terveysA2 on kokonaisvaltaista hyvinvointia, eikä pelkästään B1sairaudestaB2 puuttamista
Health	Food	concerning A1healthA2 food pyramid is a general nutrition guide for B1foodB2 consumption (taken from other part of article)	A1terveyttäA2 koskeva ruokapyramidi on yleinen ravitsemusopas B1ruoanB2 kulutukselle
Home	Family	A1homeA2 is a place where a B1familyB2 lives together	A1kotiA2 on paikka, missä B1perheB2 asuu yhdessä
Home	House	B1houseB2 or residential dwelling is often referred to as a A1homeA2	B1taloonB2 tai asuntoon viitataan usein A1kotinaA2
Home	Love	A1homeA2 is a place where people that one B1lovesB2 becomes the focus (taken from other part of article)	A1kotiA2 on paikka, missä B1rakkaudenB2 kohteena olevat ihmiset saavat huomiota
House	Family	concerning A1houseA2 a household is most commonly a B1familyB2 unit of some kind	A1taloonA2 liittyen kotitalous on useimmin jonkinlainen B1perheB2yksikkö
House	Home	concerning A1houseA2 people generally call any building they routinely occupy B1homeB2	A1taloonA2 liittyen ihmiset kutsuvat usein pysyvää asuinpaikkaansa B1kodiksiB2
House	Pet	human interest in building A1housesA2 for animals does not stop at the domestic B1petB2	ihmisten kiinnostus rakentaa A1talojaA2 eläimille ei rajoitu vain B1lemmikkieläimiinB2
House	Television	parts of A1houseA2 often include B1televisionB2 room (taken from other part of article)	A1talonA2 osiin tyypillisesti kuuluu B1televisiollaB2 varustettu huone
Human	Adolescence	A1humanA2 life span can be split into a number of stages like B1adolescenceB2	A1ihmisenA2 elämänsaari voidaan jakaa useisiin vaiheisiin, kuten B1nuoruuteenB2
Human	Animal	advent of agriculture by A1humansA2 led to domestication of B1animalsB2 (taken from other part of article)	A1ihmistenA2 harjoittaman maanviljelyksen aloittaminen johti B1eläintenB2 kesyttämiseen
Human	Clothing	A1humansA2 are the only species known to B1clotheB2 themselves	A1ihmisetA2 ovat ainoa eläinlaji, jonka tiedetään käyttävän B1vaatetustaB2
Human	Diet_(nutrition)	concerning A1humansA2 body size is significantly influenced by environmental factors such as B1dietB2	A1ihmistenA2 kehoon vaikuttavat merkittävästi ympäristötekijät, kuten B1ravintoB2
Human	Emotion	concerning A1humansA2 motivation is connected to B1emotionsB2 (taken from other part of article)	A1ihmisenA2 motivaatio kytkeytyy B1tunteisiinB2
Human	Family	A1humansA2 create complex social structures such as B1familiesB2	A1ihmisetA2 muodostavat monimutkaisia sosiaalisia rakenteita, kuten B1perheitäB2
Human	God	concerning A1humanA2 religions a common source for answers to questions are beliefs in B1godB2 (taken from other part of article)	A1ihmistenA2 harjoittamissa uskonnoissa vastauksia kysymyksiin saadaan uskomuksista B1jumalaanB2
Human	Happiness	B1happinessB2 is a A1humanA2 emotional condition	B1onnellisuusB2 on A1ihmisenA2 tunnetila
Human	Health	the best condition for A1humanA2 can be considered mental and physical B1healthB2 (taken from other part of article)	A1ihmisenA2 parhaana olotilana pidetään henkistä ja fyysistä B1terveyttäB2
Human	House	concerning A1humansA2 habitat and population influence characteristics of B1housesB2 (taken from other part of article)	A1ihmiseenA2 liittyvä elinympäristö ja väestö vaikuttavat B1talojenB2 olemukseen
Human	Love	concerning A1humansA2 emotional experiences perceived as pleasant include B1loveB2 (taken from other part of article)	A1ihmisenA2 myönteisiin tunnekokemuksiin kuuluu B1rakkausB2
Human	Music	concerning A1humansA2 art is connected to B1musicB2 (taken from other part of article)	A1ihmisenA2 harjoittamaan taiteeseen liittyy B1musiikkiB2
Human	Old_age	A1humanA2 life span can be split into a number of stages like B1old ageB2	A1ihmisenA2 elämänsaari voidaan jakaa useisiin vaiheisiin, kuten B1vanhuuteenB2
Human	Oxygen	A1humanA2 body contains 25.5 percent B1oxygenB2 (taken from other part of article)	A1ihmisenA2 kehossa on B1happeaB2 25,5 prosenttia
Human	Religion	A1humansA2 are noted for their desire seeking explanations through B1religionB2	A1ihmisilläA2 on huomattavaa halua etsiä selityksiä B1uskonnonB2 kautta
Human	War	B1warB2 is a conflict between states of A1humansA2 involving a dispute over resources (taken from other part of article)	A1ihmistenA2 asuttamat valtiot kilpailevat voimavaroista joskus käyden B1sotiaB2
Joy	Happiness	A1joyA2 is an emotion of great B1happinessB2	A1iloA2 on tunne suuresta B1onnellisuudestaB2
Learning	Education	A1learningA2 is the goal of B1educationB2 (taken from other part of article)	A1oppiminenA2 on B1koulutuksenB2 tavoite
Learning	Experience	A1learningA2 is the product of B1experienceB2 (taken from other part of article)	A1oppiminenA2 on seurausta B1kokemuksestaB2
Leisure	Education	A1leisureA2 is the period of discretionary time outside compulsory activities such as B1educationB2 (taken from other part of article)	A1vapaa-aikaA2 on omaehtoinen ajanjakso pakollisten tehtävien, kuten B1koulutuksenB2, ulkopuolella

Leisure	Family	according to the declaration of human rights that covers also A1leisureA2 everyone has right for B1familyB2 life	myös A1vapaa-aikaaA2 koskevan ihmisoikeuksien julistuksen mukaan kaikille kuuluu oikeus oikeus B1perheB2-elämään
Leisure	Sibling	according to the declaration of human rights that covers also A1leisureA2 everyone has right for B1brotherhoodB2 (taken from other part of article)	myös A1vapaa-aikaaA2 koskevan ihmisoikeuksien julistuksen mukaan kaikille kuuluu oikeus B1sisarusB2suhteisiin
Leisure	Television	passive A1leisureA2 activities are those in which a person does not exert any significant physical or mental energy, such as watching B1televisionB2	passiivisissa A1vapaa-ajanA2 tehtävissä, kuten B1televisionB2 katselussa, ei käytetä merkittävästi voimia
Leisure	Work	A1leisureA2 is a period of time spent out of B1workB2	A1vapaa-aikaA2 on ajanjakso, joka käytetään ilman B1työtäB2
Light	Sun	examples of A1lightA2 source include the radiation emitted by the chromosphere of the B1SunB2 (taken from other part of article)	esimerkki A1valonA2lähteestä on B1auringonB2 koromorfia lähtevä säteily
Light	Television	phenomena of phosphorescence is used in cathode ray tube B1televisionB2 for producing A1lightA2 (taken from other part of article)	katodisädeputkeen perustuvissa B1televisionB2 käytetään fosforenssi-ilmiötä A1valonA2 synnyttämisessä
Love	Biology	according to B1biologyB2 there are two major drives in A1loveA2: sexual attraction and attachment	B1biologianB2 perusteella A1rakkaudelleA2 on kaksi vaikutinta: seksuaalinen vetovoima ja kiintymys
Love	Emotion	A1loveA2 can describe an intense feeling of affection, an B1emotionB2 or an emotional state (taken from other part of article)	A1rakkausA2 voi tarkoittaa kiihkeää kiintymystä, B1tunnettaB2 tai tunnetilaa
Love	Family	A1loveA2 has many different meanings ranging to something one would die for, like B1familyB2 (taken from other part of article)	A1rakkaudellaA2 on eri merkityksiä ulottuen johonkin, jonka puolesta kuolla, kuten B1perheB2
Love	Friendship	concerning A1loveA2 B1friendshipB2 means the spirit between friends (taken from other part of article)	A1rakkauteenA2 liittyen B1ystävyyttäB2 merkitsee ystävien välillä vallitsevaa yhteishenkeä
Love	Happiness	A1loveA2 is connected to emotions about B1happinessB2 (taken from other part of article)	A1rakkauteenA2 liittyy tunteita B1onnellisuudestaB2
Love	Religion	throughout history, philosophy and B1religionB2 have done the most speculation on the phenomenon of A1loveA2	läpi historian filosofia ja B1uskontoB2 ovat eniten spekuloineet A1rakkaudenA2 ilmiöllä
Mother	Family	according to the declaration of human rights that covers also A1mothersA2 everyone has right for B1familyB2 life (taken from other part of article)	myös A1äitejäA2 koskevan ihmisoikeuksien julistuksen mukaan kaikille kuuluu oikeus B1perheB2-elämään
Mother	Father	an adoptive A1motherA2 is the biologically unrelated wife of a child's B1fatherB2 (taken from other part of article)	adoptioA1äitiA2 on ei-biologinen vaimo lapsen B1isälleB2
Mother	Human	in the case of a mammal such as a B1humanB2, the biological A1motherA2 gestates a fertilized ovum	nisäkkäillä, kuten B1ihmiselläB2, biologinen A1äitiA2 kasvattaa hedelmöitetyn munasolun
Mother	Leisure	according to the declaration of human rights that covers also A1mothersA2 everyone has right for B1leisureB2 (taken from other part of article)	myös A1äitejäA2 koskevan ihmisoikeuksien julistuksen mukaan kaikille kuuluu oikeus B1vapaa-aikaanB2
Mother	Love	concerning A1motherA2 B1loveB2 belongs to relationships of family (taken from other part of article)	A1äitiinA2 liittyen B1rakkausB2 kuuluu perheen ihmissuhteisiin
Mother	Parent	A1motherA2 is a biological or social female B1parentB2 of an offspring	A1äitiA2 on biologinen tai sosiaalinen naispuolinen B1vanhempiB2 lapselle
Mother	Sibling	concerning A1motherA2 B1siblingsB2 belong to members of immediate family (taken from other part of article)	A1äitiinA2 liittyen lähimpiin perheenjäseniin kuuluvat B1sisaruksetB2
Music	Religion	A1musicA2 is performed in rituals such as B1religious processionsB2	A1musiikkiaA2 esitetään rituaaleissa, kuten B1uskontoonB2 liittyvissä seremonioissa
Music	Television	live A1musicA2 can be broadcast over the B1televisionB2	elävää A1musiikkiaA2 voidaan lähettää B1televisionB2 kautta
Nature	Animal	in A1natureA2 properties common to organisms, such as B1animalsB2, are that they are cellular (taken from other part of article)	A1luontoonA2 liittyen eliöille, kuten B1eläimilleB2, yleisiä ominaisuuksia on koostuminen soluista
Nature	Biology	in A1natureA2 B1biologyB2 has a central role for life	A1luonnossaA2 B1biologiallaB2 on keskeinen merkitys elämälle
Nature	Human	in A1natureA2 wilderness is generally defined as an environment that has not been directly modified by B1humanB2 (taken from other part of article)	A1luonnossaA2 erämaana pidetään ympäristöä, jota B1ihminenB2 ei ole suoraan muokannut
Nature	Organism	in A1natureA2 biological manifestation of life concerning B1organismsB2 is characterized by organization (taken from other part of	A1luonnossaA2 B1eliötB2 koskeva elämä ilmenee biologisesti mm. järjestäytymisenä

		article)	
Nature	Oxygen	in A1natureA2 dry air consists of 21 percent B1oxygenB2 (taken from other part of article)	A1luonnossaA2 kuiva ilma sisältää 21 prosenttia B1happeaB2
Nature	Plant	in A1natureA2 properties common to organisms, such as B1plantsB2, are that they are cellular (taken from other part of article)	A1luonnossaA2 eliöille, kuten B1kasveilleB2, yleisiä ominaisuuksia on koostuminen soluista
Nature	Sun	concerning A1natureA2 one part of the Earth is more exposed to the rays of the B1SunB2 (taken from other part of article)	A1luontoonA2 liittyen osa maapallosta on enemmän altistettuna B1auringonB2 säteille
Old_age	Adolescence	B1adolescenceB2 is a legally important stage in personal development like A1old ageA2 (taken from other part of article)	B1nuoruusB2 on oikeudellisesti tärkeä vaihe yksilönkehityksessä, kuten A1vanhuusA2
Old_age	Biology	part of B1biologyB2 related to A1ageingA2 is called senescence (taken from other part of article)	A1vanhuuteenA2 liittyvää B1biologianB2 osa-alueita kutsutaan seneskenssiksi
Old_age	Child	B1childB2 is a legally important stage in personal development like also A1old ageA2 (taken from other part of article)	B1lapsiB2 on oikeudellisesti tärkeässä yksilönkehityksen vaiheessa, jollainen on myös A1vanhuusA2
Old_age	Death	A1old ageA2 is a stage of life preceding B1deathB2 (taken from other part of article)	A1vanhuusA2 on B1kuolemaaB2 edeltävä elämänvaihe
Organism	Biology	in B1biologyB2 an A1organismA2 is an individual living system	B1biologiassaA2 A1eliöA2 on itsenäinen elävä järjestelmä
Organism	Heart	A1organismsA2 have organs to produce a particular function such as the pumping of the blood by the B1heartB2 (taken from other part of article)	A1eliöilläA2 on elimiä tiettyjen toimintojen tuottamiseksi, kuten veren pumppaaminen B1sydämälläB2
Organism	Plant	concerning A1organismsA2 about 500 million years ago, B1plantsB2 and fungi colonized the land (taken from other part of article)	A1eliöihinA2 liittyen noin 500 miljoona vuotta sitten B1kasvitB2 ja sienet valloittivat maa-alueet
Oxygen	Automobile	near the earth's surface ozone consisting of A1oxygenA2 is a pollutant formed from B1automobileB2 exhaust (taken from other part of article)	A1hapestA2 koostuva otsoni on maan pinnalla saaste, joka syntyy B1autojenB2 pakokaasuista
Oxygen	Disease	A1oxygen therapy is used to treat B1diseasesB2 that impair the ability to use gaseous oxygen (taken from other part of article)	A1happiA2terapiaa käytetään B1sairauksienB2 hoitoon, jotka vaikeuttavat hapen käyttöä
Oxygen	Heart	A1oxygen therapy is used to treat B1heartB2 disorders (taken from other part of article)	A1happiA2terapiaa käytetään B1sydämenB2 häiriöiden hoitoon
Oxygen	Plant	A1oxygenA2 in the form of O2 is produced from water e.g. by B1plantsB2 during photosynthesis	A1happiA2 muodossa O2 syntyy vedestä mm. B1kasvienB2 yhteyttämisen kautta
Oxygen	Sun	about 0.87 percent of the B1Sun'sB2 mass is from A1oxygenA2	noin 0,87 prosenttia B1auringonB2 massasta on A1happeaA2
Oxygen	Water	B1waterB2 (H2O) is the oxide of hydrogen and the most familiar A1oxygenA2 compound	B1vesiB2 (H2O) on vedyn oksidi ja yleisin A1happiA2yhdiste
Parent	Birth	mother is a A1parentA2 who gives B1birthB2 to an offspring (taken from other part of article)	äiti on A1vanhempiA2, joka synnyttämällä toteuttaa jälkeläisen B1syntymisenB2
Parent	Child	mother is the biological or social female A1parentA2 of a B1childB2	äiti on biologinen tai sosiaalinen naispuolinen A1vanhempiA2 B1lapselleB2
Parent	Father	B1fatherB2 is a A1parentA2 who sires an offspring (taken from other part of article)	B1isäB2 on A1vanhempiA2, joka hoitaa jälkeläistä
Parent	Human	concerning A1parentsA2 in the case of B1humansB2 the mother gestates her child in the uterus (taken from other part of article)	A1vanhempiinA2 liittyen B1ihmisenB2 tapauksessa biologinen äiti kasvattaa lasta kohdussaan
Parent	Mother	B1motherB2 is a A1parentA2 who nurtures an offspring (taken from other part of article)	B1äitiB2 on A1vanhempiA2, joka hoitaa jälkeläistä
Parent	Sibling	B1siblingsB2 compete about A1parentalA2 investments (taken from other part of article)	B1sisaruksetB2 kilpailevat A1vanhempiensaA2 investoinnista hyvinvointinsa lisäämiseksi
Peace	Education	A1peacefulA2 development can be a set of many different elements such as B1educationB2	A1rauhaaA2 tukeva kehitys voi koostua useasta tekijästä, kuten B1koulutuksestaB2
Peace	War	concerning A1peaceA2 democracies rarely make B1warB2 against each other (taken from other part of article)	A1rauhaanA2 liittyen demokratiat käyvät harvoin B1sotiaB2 toisiaan vastaan
Pet	Animal	A1petA2 is an B1animalB2 kept for companionship	A1lemmikkieläinA2 on B1eläinB2, jota pidetään seuraksi
Pet	Cat	only a small number of species of mammals like B1catB2 is practical as a A1petA2 (taken from other part of article)	vain pieni osa nisäkäslajeista, kuten B1kissaB2, on käytännöllisiä A1lemmikkieläimiksiA2
Pet	Dog	only a small number of species of mammals like B1dogB2 is practical as a A1petA2 (taken from other part of article)	vain pieni osa nisäkäslajeista, kuten B1koiraB2, on käytännöllisiä A1lemmikkieläimiksiA2

Plant	Animal	fungi are not related to photosynthetic groups of A1plantsA2 but are close relatives of B1animalsB2 (taken from other part of article)	sienet eivät liity A1kasvienA2 yhteyttävään ryhmään, vaan ovat lähisukulaisia B1eläimilleB2
Plant	Biology	concerning A1plantsA2 in nature B1biologyB2 has a central role for life (taken from other part of article)	A1kasveihinA2 liittyen luonnossa B1biologiollaB2 on keskeinen merkitys elämälle
Plant	Light	most A1plantsA2 obtain their energy through photosynthesis, using B1lightB2 and carbon dioxide (taken from other part of article)	useat A1kasvitA2 hankkivat energiansa yhteyttämällä käyttäen B1valoaB2 ja hiilidioksisia
Plant	Nature	in B1natureB2 human has contributed to the extinction of many A1plantsA2 (taken from other part of article)	B1luonnossaB2 ihminen on vaikuttanut useiden A1kasvienA2 sukupuuttoon
Plant	Organism	A1plantsA2 are a major group of life forms and include familiar B1organismsB2 such as trees	A1kasvitA2 ovat keskeinen ryhmä elämänmuotoja ja sisältävät tuttuja B1eliöitäB2, kuten puita
Plant	Oxygen	concerning A1plantsA2 photosynthesis changed the composition of the early Earth's atmosphere which is now 21 percent B1oxygenB2 (taken from other part of article)	A1kasveihinA2 liittyvä yhteyttäminen muutti varhaisen maapallon ilmakehää, jossa on nykyisin 21 prosenttia B1happeaB2
Plant	Tree	among A1plantsA2 conifers are dominant B1treesB2 (taken from other part of article)	A1kasvienA2 joukossa paljassiemeniset ovat hallitsevia B1puitaB2 useissa eloyhteisöissä
Plant	Water	growth of A1plantsA2 is also determined by environmental factors, such as available B1waterB2 (taken from other part of article)	A1kasvienA2 kasvu määräytyy myös ympäristötekijöistä, kuten saatavilla olevasta B1vedestäB2
Religion	God	A1religionA2 is related to awareness of B1GodB2 through direct personal experience (taken from other part of article)	A1uskontoonA2 liittyy tietoisuus B1jumalastaB2 suoran henkilökohtaisen kokemuksen kautta
Religion	Human	concerning A1religionA2 B1humansB2 have methods which attempt to answer fundamental questions (taken from other part of article)	A1uskontoaA2 koskien B1ihmisilläB2 on menetelmiä vastauksen saamiseksi perimmäisiin kysymyksiin
Religion	Sun	concerning A1religionA2 Isaac Newton believed that the planets revolve about the B1SunB2 and credited God with the design (taken from other part of article)	A1uskontoonA2 liittyen Isaac Newton uskoi, että planeetat pyörivät B1aurionB2 ympäri jumalan suunnittelutyön seurauksena
School	Education	concerning A1schoolA2 most countries have a system of B1educationB2 which is compulsory (taken from other part of article)	A1kouluunA2 liittyen useimmilla valtioilla on B1koulutusB2järjestelmä, joka on pakollinen
School	Teacher	A1schoolA2 is an institution designed to allow students to learn under the supervision of B1teacherB2 (taken from other part of article)	A1kouluA2 on laitos, joka on suunniteltu, jotta opiskelijat voivat oppia B1opettajanB2 ohjauksessa
Sea	Water	A1seaA2 is a large expanse of saline B1waterB2 (taken from other part of article)	A1meriA2 on suuri alue suolaista B1vettäB2
Sibling	Family	A1siblingA2 bond is influenced by factors such as experiences outside the B1familyB2	suhde A1sisarustenA2 välillä riippuu esim. kokemuksista B1perheenB2 ulkopuolella
Sibling	Father	half sibling that shares the same B1fatherB2 is known as an agnate A1siblingA2	sisarpuolta, joka jakaa saman isän, voidaan kutsua B1isänB2 puolelta tulevaksi A1sisarukseksiA2
Sibling	Love	concerning A1siblingsA2 closeness may be marked with strong emotions such as B1loveB2 (taken from other part of article)	A1sisaruksiinA2 liittyen läheisyyteen voi kuulua voimakkaita tunteita, kuten B1rakkauttaB2
Sibling	Mother	half sibling that shares the same B1motherB2 is known as a uterine A1siblingA2	sisarpuolta, joka jakaa saman äidin, voidaan kutsua B1äidinB2 puolelta tulevaksi A1sisarukseksiA2
Sibling	Parent	A1siblingA2 is brother or sister with whom a person shares at least one B1parentB2 (taken from other part of article)	henkilön A1sisarusA2 on veli tai sisko, jonka kanssa hän jakaa ainakin yhden B1vanhemmanB2
Sun	Oxygen	surface composition of the A1SunA2 consists of hydrogen, helium and trace quantities of other elements like B1oxygenB2 (taken from other part of article)	A1aurionA2 pinta koostuu vedystä, heliumista ja pienistä määristä muita aineita, kuten B1happeaB2
Sun	Plant	photosynthesis by B1plantsB2 captures A1sunA2light and converts it to chemical form (taken from other part of article)	B1kasvienB2 yhteyttäminen kerää A1aurionA2valoa ja muuntaa sen kemialliseen muotoon
Teacher	Education	in B1educationB2 A1teachersA2 facilitate learning of students (taken from other part of article)	B1koulutuksessaB2 A1opettajatA2 helpottavat opiskelijoiden oppimista
Teacher	Learning	the objective for a A1teacherA2 is typically to teach a course of study and B1learningB2 skills (taken from other part of article)	A1opettajanA2 tavoitteena on usein opettaa kurssi sekä B1oppimisenB2 taitoja
Teacher	School	in education A1teachersA2 facilitate learning of students in B1schoolB2 (taken from other part of article)	koulutuksessa A1opettajatA2 helpottavat opiskelijoiden oppimista B1koulussaB2
Tree	Oxygen	A1treesA2 have been found to play an	A1puillaA2 on havaittu olevan tärkeää

		important role in producing B1oxygenB2 (taken from other part of article)	tehtävä B1hapenB2 tuottamisessa
Tree	Water	roots of a A1treeA2 are generally embedded in earth absorbing B1waterB2 from the soil (taken from other part of article)	A1puidenA2 juuret sijaitsevat yleensä maan sisässä imien B1vettäB2 maaperästä
War	Disease	growth of population is limited by A1warA2 as well as B1diseasesB2 (taken from other part of article)	A1sotaA2 rajoittaa väestönkasvua, kuten myös B1sairaudetB2
War	Peace	theories of A1warA2 must explain also B1peaceB2 (taken from other part of article)	A1sotaaA2 koskevien teorioiden tulee selittää myös B1rauhaaB2
War	Religion	acceptance of A1warA2 is inculcated into humans by e.g. B1religiousB2 surroundings in which they live (taken from other part of article)	ihmiset omaksuvat A1sodanA2 hyväksynnän mm. elinympäristön B1uskonnostaB2
Water	Biology	from a B1biologicalB2 standpoint, A1waterA2 has many distinct properties that are critical for the proliferation of life (taken from other part of article)	B1biologianB2 mukaan A1vedelläA2 on useita erityisominaisuuksia elämän edistämiseksi
Water	Human	storage of A1waterA2 is important, since it is essential to B1humanB2 life (taken from other part of article)	A1vedenA2 varastointi on tärkeää, sillä se on olennaista B1ihmisenB2 elämälle
Water	Organism	existence of A1waterA2 is vital to the existence of life on Earth like B1organismsB2 (taken from other part of article)	A1vedenA2 esiintyminen on välttämätöntä elämän olemassaololle maan päällä, kuten B1eliöilleB2
Water	Oxygen	components of A1waterA2, hydrogen and B1oxygenB2, are among the most abundant elements in the universe (taken from other part of article)	A1vedenA2 ainesosat vety ja B1happiB2 ovat yleisimpien aineiden joukossa maailmankaikkeudessa
Water	Plant	there is a continuous exchange of A1waterA2 between ground and atmosphere through e.g. B1plantsB2 (taken from other part of article)	A1vesiA2 kulkee maanperän ja ilmakehän välillä mm. B1kasvienB2 kautta
Water	Sea	liquid A1waterA2 is found in bodies of water such as B1seaB2 (taken from other part of article)	nestemäistä A1vettäA2 esiintyy vesistöissä, kuten B1meressäB2
Water	Sun	the Earth is located at such distance from the B1SunB2 allowing the three forms of A1waterA2 (taken from other part of article)	maapallo sijaitsee B1auringostaB2 etäisyydellä, joka mahdollistaa A1vedelleA2 kolme olomuotoa
Water	Travel	concerning A1waterA2 rivers and seas offer opportunity for B1travelB2 (taken from other part of article)	A1veteenA2 liittyen joet ja meret tarjoavat tilaisuuden B1matkustamiselleB2

### Additional hyperlinks for rolling back

14 hyperlinks in addition to 212 above mentioned hyperlinks that were traversed to roll back to previously visited concept when the student's exploration had lead to a next concept that did not offer any outgoing hyperlinks for further exploration or if all outgoing hyperlinks had been already traversed once earlier during this same exploration:

<i>Hyperlink</i>	<i>Number of traversals</i>
Disease->Oxygen	1
Experience->Emotion	18
Experience->Learning	8
Happiness->Love	4
Heart->Organism	6
Heart->Death	5
Joy->Emotion	7
Learning->Teacher	3
Television->Adolescence	3
Television->Clothing	1
Television->Light	1
Television->Leisure	1
Travel->Water	3
Work->Leisure	5

(empty on purpose)

## Appendix K

Listing of the highest-ranking traversed hyperlinks of the Wikipedia in exploration paths of students (n=49), shown for all students and also separately for male students (n=18) and female students (n=31). Exploration experiment with students was carried out in “hyperlink network of 55 concepts” containing 212 hyperlinks connecting 55 concepts. All 212 hyperlinks of “hyperlink network of 55 concepts” are connecting concepts that are reachable (by traversing one or more intermediate hyperlinks) from concept Human in exploration paths (containing 55 concepts including concept Human). This listing shows the number of traversals for those hyperlinks of 212 hyperlinks that became traversed by students and as well as for additional roll back hyperlinks (shown in Appendix J). Please note that in exploration experiment each student was allowed to traverse each hyperlink belonging to “hyperlink network of 55 concepts” at most once (except in case of roll back hyperlinks).

This listing also shows for all students the number of selectable alternative hyperlinks (average) shown to the student when she selected to traverse a hyperlink that was just before traversing current hyperlink. The number of traversals for hyperlinks departing from Human includes all those traversals that originate from the fact that in the experiment all exploration paths of students had to start always from concept Human, however in parenthesis is shown the number of traversals when excluding hyperlinks departing from concept Human that were the student’s first traversed hyperlink in exploration path. Indicated with an asterisk (\*), for hyperlinks departing from concept Human the number of selectable alternative hyperlinks (average) is calculated only based on those traversals of hyperlinks departing from concept Human that were not the student’s first traversed hyperlink in her exploration path. Among 16 alternative hyperlinks departing from concept Human there did not occur any traversals for hyperlinks Human->God and Human->Old\_age.

<i>All students participating in exploration task (n = 49)</i>			<i>All male students participating in exploration task (n = 18)</i>		<i>All female students participating in exploration task (n = 31)</i>	
<i>Traversed hyperlink (current hyperlink)</i>	<i>Number of traversals</i>	<i>Number of selectable alternative hyperlinks (average) shown to student when she selected to traverse a hyperlink that was just before traversing current hyperlink</i>	<i>Traversed hyperlink</i>	<i>Number of traversals</i>	<i>Traversed hyperlink</i>	<i>Number of traversals</i>
Happiness -> Emotion	29	3.758621	Animal -> Nature	4	Happiness -> Emotion	25
Emotion -> Love	26	1.846154	Joy -> Happiness	4	Emotion -> Love	23
Joy -> Happiness	24	2.125	Happiness -> Joy	4	Disease -> Death	22
Disease -> Death	24	4.625	Happiness -> Emotion	4	Joy -> Happiness	20
Happiness -> Joy	21	4.285714	Sun -> Oxygen	3	Adolescence -> Education	17
Human -> Diet_(nutrition)	19 (2*)	5.5*	Sun -> Plant	3	Happiness -> Joy	17
Emotion -> Experience	19	7.263158	Biology -> Animal	3	Human -> Diet_(nutrition)	16
Experience -> Emotion (only to roll back)	18	3.833333	Organism -> Biology	3	Emotion -> Experience	16
Organism -> Biology	17	5.176471	Organism -> Plant	3	Experience -> Emotion (only to roll back)	15
Adolescence ->	17	6.764706	Organism -> Heart	3	Organism ->	14



Education						Biology	
Love -> Friendship	16	2.75		Oxygen -> Sun	3	Education -> Learning	14
Education -> Learning	14	3.428571		Oxygen -> Plant	3	Learning -> Education	14
Learning -> Education	14	5.642857		Oxygen -> Water	3	Love -> Friendship	14
Emotion -> Happiness	14	3.571429		Human -> Diet (nutrition)	3	Family -> Mother	12
Family -> Mother	13	8.384615		Plant -> Nature	3	Health -> Disease	12
Diet_(nutrition) -> Health	13	14.92308		Plant -> Tree	3	Diet_(nutrition) -> Health	11
Health -> Disease	13	10.38462		Experience -> Emotion (only to roll back)	3	Emotion -> Happiness	11
Love -> Happiness	11	6.363636		Happiness -> Love (only to roll back)	3	Emotion -> Joy	10
Emotion -> Joy	11	2.090909		Love -> Happiness	3	Friendship -> Adolescence	10
Love -> Emotion	10	5.4		Emotion -> Experience	3	Biology -> Nature	9
Friendship -> Adolescence	10	5.3		Emotion -> Happiness	3	Human -> Adolescence	9
Biology -> Nature	9	3.444444		Emotion -> Love	3	Adolescence -> Child	9
Organism -> Plant	9	4.888889		Automobile -> Oxygen	2	Love -> Emotion	9
Oxygen -> Water	9	6.333333		Animal -> Organism	2	Human -> Family	8
Human -> Adolescence	9 (2*)	7*		Oxygen -> Automobile	2	Human -> Emotion	8
Human -> Family	9 (6*)	7.333333*		Death -> Organism	2	Experience -> Learning (only to roll back)	8
Human -> Emotion	9 (3*)	6		Nature -> Animal	2	Death -> Disease	8
Adolescence -> Child	9	9.555556		Nature -> Human	2	Death -> War	8
Sun -> Plant	8	5.375		Travel -> Water	2	Learning -> Experience	8
Organism -> Heart	8	5.875		Family -> Father	2	Love -> Happiness	8
Human -> Health	8 (3*)	6.666667*		Tree -> Oxygen	2	War -> Peace	8
Experience -> Learning (only to roll back)	8	1.75		Love -> Biology	2	Biology -> Organism	7
Death -> Disease	8	1.75		Love -> Friendship	2	Human -> Health	7
Death -> War	8	1.75		Diet_(nutrition) -> Organism	2	Family -> Sibling	7
Learning -> Experience	8	7.375		Diet_(nutrition) -> Health	2	Love -> Family	7
Love -> Family	8	3.5		Disease -> Death	2	Organism -> Plant	6
War -> Peace	8	8.5		Sibling -> Love	2	Animal -> Human	6
Mother -> Parent	8	4.5		Heart -> Organism	2	Oxygen -> Water	6
Biology -> Organism	7	5.857143		Health -> Diet (nutrition)	2	Joy -> Emotion (only to roll back)	6
Biology -> Animal	7	4.142857		Parent -> Sibling	2	School -> Education	6
Oxygen -> Plant	7	6		Water -> Oxygen	2	Education -> School	6
Joy -> Emotion (only to roll back)	7	1.142857		Water -> Travel	2	Education -> Adolescence	6
Plant -> Tree	7	2.571429		Friendship -> Animal	2	Education -> Leisure	6
Sea -> Water	7	7.857143		Mother -> Parent	2	Death -> Human	6
Family -> Sibling	7	9.428571		Biology -> Human	1	Child -> Family	6
Sibling -> Love	7	5.571429		Biology -> Plant	1	Sea -> Water	6
Water -> Sea	7	6.428571		Animal -> Oxygen	1	Teacher -> Learning	6
Sun -> Oxygen	6	3.5		Animal -> Water	1	Family -> Child	6
Animal -> Human	6	5.666667		Oxygen -> Disease	1	Peace -> Education	6
Animal -> Nature	6	7.333333		Human -> Oxygen	1	Water -> Sea	6
Human -> Happiness	6 (5*)	6.6*		Human -> Happiness	1	Mother -> Parent	6
Plant -> Nature	6	4.333333		Human -> Family	1	Sun -> Plant	5
Plant -> Light	6	3.5		Human -> War	1	Organism -> Heart	5
School ->	6	3.5		Human -> Health	1	Human ->	5

Education						Happiness	
Education -> School	6	2.833333		Human -> Emotion	1	Plant -> Light	5
Education -> Adolescence	6	2		Human -> Religion	1	Education -> Human	5
Education -> Leisure	6	1.833333		Joy -> Emotion (only to roll back)	1	Education -> Teacher	5
Death -> Organism	6	1		Father -> Family	1	Child -> Adolescence	5
Death -> Human	6	1.333333		Father -> Sibling	1	Teacher -> School	5
Child -> Family	6	3.333333		Father -> Mother	1	Sibling -> Love	5
Teacher -> Learning	6	5.5		God -> Father	1	Health -> Biology	5
Family -> Child	6	6.5		Plant -> Biology	1	Work -> Leisure (only to roll back)	5
Peace -> Education	6	3		Plant -> Animal	1	Parent -> Human	5
Diet_(nutrition) -> Organism	6	13.83333		Plant -> Light	1	Parent -> Birth	5
Heart -> Organism (only to roll back)	6	2.333333		Plant -> Water	1	Leisure -> Work	5
Mother -> Love	6	4.833333		Death -> Heart	1	Mother -> Love	5
Biology -> Human	5	4.8		Nature -> Sun	1	Biology -> Animal	4
Human -> War	5 (3*)	5.666667*		Nature -> Organism	1	Biology -> Human	4
God -> Father	5	3		Nature -> Oxygen	1	Oxygen -> Plant	4
Education -> Human	5	2.2		Sea -> Water	1	Human -> War	4
Education -> Teacher	5	2.4		Family -> Mother	1	Father -> Love	4
Death -> Heart	5	1.6		Tree -> Water	1	God -> Father	4
Child -> Adolescence	5	5.2		Love -> Family	1	Plant -> Tree	4
Teacher -> School	5	4.2		Love -> Emotion	1	School -> Teacher	4
Tree -> Oxygen	5	7.4		Diet_(nutrition) -> Religion	1	Death -> Organism	4
Love -> Biology	5	1.6		Disease -> Oxygen (only to roll back)	1	Death -> Heart	4
Heart -> Death (only to roll back)	5	6.6		Sibling -> Parent	1	Child -> Parent	4
Health -> Biology	5	4		War -> Disease	1	Adolescence -> Old_age	4
Work -> Leisure (only to roll back)	5	4.8		Heart -> Death (only to roll back)	1	Family -> Leisure	4
Religion -> God	5	2.4		Health -> Disease	1	Diet_(nutrition) -> Organism	4
Light -> Sun	5	6.2		Emotion -> Joy	1	War -> Religion	4
Parent -> Human	5	6		Religion -> Sun	1	Heart -> Organism	4
Parent -> Birth	5	6.4		Religion -> God	1	Heart -> Death (only to roll back)	4
Leisure -> Work	5	5.2		Light -> Sun	1	Religion -> God	4
Animal -> Organism	4	4.25		Parent -> Mother	1	Light -> Sun	4
Father -> Love	4	4.75		Water -> Sun	1	Leisure -> Family	4
School -> Teacher	4	9.5		Water -> Human	1	Sun -> Oxygen	3
Child -> Parent	4	4.25		Water -> Plant	1	Human -> Love	3
Nature -> Animal	4	6.5		Water -> Sea	1	Human -> Clothing	3
Nature -> Human	4	6.25		Mother -> Love	1	Plant -> Organism	3
Adolescence -> Old_age	4	9.25				Plant -> Nature	3
Happiness -> Love	4	3				Nature -> Plant	3
Family -> Father	4	5.75				Adolescence -> Television	3
Family -> Leisure	4	7.75				Learning -> Teacher (only to roll back)	3
War -> Religion	4	6.75				Tree -> Oxygen	3
Health -> Diet_(nutrition)	4	7.5				Love -> Biology	3
Leisure -> Family	4	5.25				Diet_(nutrition) -> Death	3
Water -> Sun	4	2.75				Birth -> Animal	3
Oxygen -> Sun	3	5				Television -> Adolescence (only to roll back)	3

Oxygen -> Disease	3	1.333333			Religion -> Human	3
Human -> Love	3 (2*)	7.5*			Old_age -> Death	3
Human -> Religion	3 (0*)	not available since no other hyperlinks were traversed before traversing Human -> Religion*			Water -> Sun	3
Human -> Clothing	3 (2*)	6*			Biology -> Health	2
Father -> Family	3	3.666667			Animal -> Organism	2
Plant -> Organism	3	3			Animal -> Nature	2
Plant -> Water	3	3.333333			Oxygen -> Disease	2
Nature -> Sun	3	6			Oxygen -> Heart	2
Nature -> Organism	3	6.333333			Human -> House	2
Nature -> Oxygen	3	6.666667			Human -> Religion	2
Nature -> Plant	3	6.333333			Father -> Family	2
Travel -> Water	3	7			Father -> Parent	2
Adolescence -> Television	3	7.333333			Plant -> Oxygen	2
Learning -> Teacher (only to roll back)	3	1.666667			Plant -> Water	2
Diet (nutrition) -> Death	3	12			Home -> Family	2
Sibling -> Parent	3	3.666667			Education -> Biology	2
War -> Disease	3	12.33333			Death -> Oxygen	2
Birth -> Animal	3	6			Nature -> Sun	2
Television -> Adolescence (only to roll back)	3	3.333333			Nature -> Organism	2
Religion -> Human	3	11.33333			Nature -> Animal	2
Old_age -> Death	3	4.333333			Nature -> Oxygen	2
Water -> Oxygen	3	3.333333			Nature -> Human	2
Water -> Plant	3	1			Family -> Father	2
Water -> Travel	3	2			Peace -> War	2
Automobile -> Oxygen	2	6			Sibling -> Family	2
Biology -> Plant	2	2.5			Sibling -> Parent	2
Biology -> Health	2	3			War -> Disease	2
Oxygen -> Automobile	2	2			House -> Home	2
Oxygen -> Heart	2	3.5			Health -> Diet (nutrition)	2
Human -> Oxygen	2 (1*)	7*			Clothing -> Religion	2
Human -> House	2 (1*)	3*			Light -> Television	2
Father -> Parent	2	5			Parent -> Father	2
Father -> Mother	2	4.5			Parent -> Child	2
Plant -> Biology	2	6			Leisure -> Education	2
Plant -> Animal	2	5			Leisure -> Sibling	2
Plant -> Oxygen	2	7			Water -> Biology	2
Home -> Family	2	4			Water -> Plant	2
Education -> Biology	2	3			Friendship -> Love	2
Death -> Oxygen	2	2.5			Mother -> Father	2
Tree -> Water	2	6			Biology -> Plant	1
Peace -> War	2	3			Human -> Animal	1
Sibling -> Family	2	4.5			Human -> Oxygen	1
House -> Home	2	15.5			Human -> Music	1
Religion -> Sun	2	9			Father -> Mother	1
Clothing -> Religion	2	8.5			Plant -> Biology	1
Light -> Television	2	8			Plant -> Animal	1
Parent -> Father	2	7			Education -> Sibling	1
Parent -> Child	2	5			Child -> Old_age	1
Parent -> Sibling	2	6			Child -> Leisure	1
Leisure ->	2	1			Travel -> Water	1

Education							
Leisure -> Sibling	2	6				Happiness -> Love (only to roll back)	1
Water -> Biology	2	3.5				Teacher -> Education	1
Friendship -> Animal	2	5.5				Tree -> Water	1
Friendship -> Love	2	5.5				Food -> Human	1
Mother -> Father	2	5				Birth -> Death	1
Animal -> Oxygen	1	7				Birth -> Mother	1
Animal -> Water	1	7				Television -> Clothing (only to roll back)	1
Human -> Animal	1 (0*)	not available since no other hyperlinks were traversed before traversing Human -> Animal*				Television -> Light (only to roll back)	1
Human -> Music	1 (1*)	9*				Television -> Leisure (only to roll back)	1
Father -> Sibling	1	5				Health -> Food	1
Education -> Sibling	1	2				Religion -> Sun	1
Child -> Old_age	1	4				Clothing -> Television	1
Child -> Leisure	1	5				Old_age -> Adolescence	1
Teacher -> Education	1	2				Leisure -> Television	1
Diet_(nutrition) -> Religion	1	4				Water -> Oxygen	1
Food -> Human	1	3				Water -> Travel	1
Disease -> Oxygen (only to roll back)	1	5				Mother -> Family	1
Birth -> Death	1	6					
Birth -> Mother	1	6					
Television -> Clothing (only to roll back)	1	2					
Television -> Light (only to roll back)	1	2					
Television -> Leisure (only to roll back)	1	5					
Health -> Food	1	4					
Clothing -> Television	1	15					
Parent -> Mother	1	7					
Old_age -> Adolescence	1	4					
Leisure -> Television	1	10					
Water -> Human	1	6					
Mother -> Family	1	3					

(empty on purpose)

## Appendix L

Based on Appendix K we have identified the most actively traversed departing and arriving hyperlinks for each of 55 concepts in “hyperlink network of 55 concepts” during exploration experiment with students (n=49). For arriving hyperlinks we express the number of unique end concepts that have got traversed arrivals during surfing per unique end concepts that could have got traversed arrivals in “hyperlink network of 55 concepts” for observed concept, and we also express the end concept for most actively traversed hyperlink departing from observed concept. For departing hyperlinks we express the number of unique start concepts that have got traversed departures during surfing per unique start concepts that could have got traversed departures in “hyperlink network of 55 concepts” for observed concept, and we also express the start concept for most actively traversed hyperlink arriving to observed concept.

If several hyperlinks of observed concept share the position as the most actively traversed departing hyperlink or the most actively traversed arriving hyperlink all corresponding end concepts or start concepts are listed in the table (for example both hyperlinks Animal->Human and Animal->Nature depart from concept Animal and both links Animal->Human and Death->Human arrive at concept Human). For some observed concepts some of traversed departing or arriving hyperlinks are traversals of rolling back and in these cases the values and concepts (if there are any) are listed also without traversals of rolling back, and also hyperlinks traversed for rolling back are listed.

Observed concept	Arriving hyperlinks of “hyperlink network of 55 concepts”		Departing links of “hyperlink network of 55 concepts”	
<i>Concept among 55 concepts of “hyperlink network of 55 concepts”</i>	<i>The number of unique end concepts that have got traversed arrivals during surfing per number of unique end concepts that could have got traversed arrivals in “hyperlink network of 55 concepts” for observed concept</i>	<i>End concept for most actively traversed hyperlink departing from observed concept (N/A = not available)</i>	<i>The number of unique start concepts that have got traversed departures during surfing per number of unique start concepts that could have got traversed departures in “hyperlink network of 55 concepts” for observed concept</i>	<i>Start concept for most actively traversed hyperlink arriving to observed concept (N/A = not available)</i>
Adolescence	4per4	Education	6per6 (without traversals of rolling back 5per6 (rolling back television->adolescence))	Friendship
Animal	5per7	Human; Nature	6per8	Biology
Automobile	1per1	Oxygen	1per1	Oxygen
Biology	6per6	Nature	6per9	Organism
Birth	3per4	Animal	1per1	Parent
Cat	0per3	N/A	0per2	N/A
Child	5per6	Family	3per5	Adolescence
Clothing	2per2	Religion	2per1 (without traversals of rolling back 1per1 (rolling back television->clothing))	Human
Computer	0per2	N/A	0per1	N/A
Death	6per7	Disease; War	5per5 (without traversals of rolling back 4per5 (rolling back heart->death))	Disease
Diet_(nutrition)	4per4	Health	2per4	Human
Disease	2per1 (without traversals of rolling back 1per1 (rolling back disease->oxygen))	Death	4per4	Health
Dog	0per3	N/A	0per2	N/A
Education	8per10	Learning	6per6	Adolescence
Emotion	4per4	Love	5per3 (without traversals of rolling back 3per3 (rolling back experience->emotion; joy->emotion))	Happiness
Experience	2per0 (without traversals of rolling back 0per0 (rolling	Emotion (without traversals of rolling	2per2	Emotion

	back experience->learning; experience->emotion))	back N/A)		
Family	5per5	Mother	8per10	Human
Father	5per5	Love	4per5	God
Food	1per10	Human	1per1	Health
Friendship	3per3	Adolescence	1per1	Love
God	1per3	Father	1per2	Religion
Happiness	3per2 (without traversals of rolling back 2per2 (rolling back happiness->love))	Emotion	4per4	Joy
Health	4per4	Disease	3per4	Diet_(nutrition)
Heart	2per0 (without traversals of rolling back 0per0 (rolling back heart->organism; heart->death))	Organism (without traversals of rolling back N/A)	3per3	Organism
Home	1per3	Family	1per1	House
House	1per4	Home	1per2	Human
Human	14per16	Diet_(nutrition)	9per11	Animal; Death
Joy	2per1 (without traversals of rolling back 1per1 (rolling back joy->emotion))	Happiness	2per2	Happiness
Learning	3per2 (without traversals of rolling back 2per2 (rolling back learning->teacher))	Education	3per2 (without traversals of rolling back 2per2 (rolling back experience->learning))	Education
Leisure	5per5	Work	5per4 (without traversals of rolling back 3per4 (rolling back television->leisure; work->leisure))	Education
Light	2per2	Sun	2per1 (without traversals of rolling back 1per1 (rolling back television->light))	Plant
Love	5per6	Friendship	7per7 (without traversals of rolling back 6per7 (rolling back happiness->love))	Emotion
Mother	4per7	Parent	4per5	Family
Music	0per2	N/A	1per1	Human
Nature	6per7	Animal; Human	3per4	Biology
Old_age	2per4	Death	2per3	Adolescence
Organism	3per3	Biology	7per7 (without traversals of rolling back 6per7 (rolling back heart->organism))	Biology
Oxygen	6per6	Water	10per9 (without traversals of rolling back 9per9 (rolling back disease->oxygen))	Sun
Parent	6per6	Human; Birth	4per4	Mother
Peace	2per2	Education	1per1	War
Pet	0per3	N/A	0per3	N/A
Plant	8per8	Tree	6per8	Organism
Religion	3per3	God	4per7	War
School	2per2	Education	2per3	Education
Sea	1per1	Water	1per1	Water
Sibling	3per5	Love	5per7	Family
Sun	2per2	Plant	5per6	Light
Teacher	3per3	Learning	3per2 (without traversals of rolling back 2per2 (rolling back learning->teacher))	Education
Telephone	0per0	N/A	0per1	N/A
Television	4per0 (without traversals of rolling back 0per0 (rolling back television->adolescence; television->clothing; television->light; television->leisure))	Adolescence (without traversals of rolling back N/A)	4per7	Adolescence
Travel	1per0 (without traversals of rolling back 0per0 (rolling back travel->water))	Water (without traversals of rolling back N/A)	1per1	Water
Tree	2per2	Oxygen	1per1	Plant
War	3per3	Peace	3per4	Death
Water	7per8	Sea	6per6 (without traversals of rolling back 5per6 (rolling back travel-	Oxygen

			>water))	
Work	1per0 (without traversals of rolling back 0per0 (rolling back work->leisure))	Leisure (without traversals of rolling back N/A)	1per1	Leisure



(empty on purpose)

## Appendix M

User interface of a prototype tool used by 147 university students of introductory Java programming course who we asked to draw with our method concept maps representing their knowledge about learning topic “programming” (texts provided only in Finnish), as discussed in Subchapter 8.2.

English translation of texts of the user interface:

Draw a concept map that describes topic "programming". Presentation style is free and available time 15 minutes.

CONCEPTS: Add concepts by drawing an expression to text field and pressing "New concept".

ARROWS: Add between concepts arrows supplied with descriptions. Select start concept (blue) with left mouse button and end concept (red) with right mouse button. Write expression that describes relation to text field and press "New arrow". (You can replace right mouse button with combination Control/Ctrl button and left mouse button.)

Build a concept map that presents 10-20 most important concepts concerning programming and the most important relationships between them. If needed you can rename or remove concepts and arrows and move

them by dragging. Below is an example of possible structure of a concept map. Have a confidence with your own opinion, draw fast and a lot, approximateness is not a problem.

Text for concept/arrow.

New concept, rename concept, remove concept, new arrow, rename arrow, remove arrow.

Background information about the student.

Student number. Age (select), gender (select).

How much you have experience about programming before participating programming course? (select).

Is it easy for you at the moment to learn programming? (select).

Please give an estimate about how complex things your concept map is dealing with? (select).

Saving (press when you have finished your work). Time left 15 min.

(An example of concept map structure.)

Responses of 147 university students of introductory Java programming course who we asked to draw with our method concept maps representing their knowledge about learning topic “programming”. After eliminating unclear responses and transforming all concepts to non-conjugated base forms, there were 167 unique concepts and 167 unique conceptual relationships between them mentioned by at least two students. Both a listing of these unique concepts and a listing of these unique conceptual relationships are shown in table below showing number of occurrences in all 147 concept maps.

<i>Concept</i>	<i>Occurrences (at most one occurrence counted for each student)</i>		<i>Conceptual relationship</i>	<i>Occurrences (at most one occurrence counted for each student)</i>
programming	90		object -> method	29
object	62		class -> object	27
method	60		programming -> programming language	27
java	57		programming language -> java	18
class	49		programming -> language	17
program	47		class -> method	14
programming language	44		java -> object	14
variable	41		programming -> program	14
python	31		object -> variable	12
c	29		language -> java	11
programmer	25		language -> c	10
language	24		program -> class	10
object-oriented programming	22		object -> class	9
computer	21		variable -> object	9
user	21		java -> object-oriented programming	8
compiler	20		language -> python	8
c++	19		programming language -> c	8
code	17		programming -> object	8
user interface	16		programming -> object-oriented programming	8
loop	13		programming language -> python	7
debugger	12		class -> variable	6
eclipse	12		method -> object	6
problem	11		object-oriented programming -> java	6
algorithm	9		programming -> computer	6
conditional sentence	9		programming -> java	6
int	9		programming -> tool	6
parameter	9		c -> c++	5
program code	9		code -> program	5
ready program	9		java -> class	5
starting method	9		method -> class	5
tool	9		method -> variable	5
library	8		package -> class	5
machine language	8		programmer -> program	5
testing	8		programmer -> programming	5
constructor	7		programmer -> programming language	5
list	7		programming -> programmer	5
string	7		programming -> user interface	5

double	6		programming -> variable	5
function	6		variable -> method	5
gui	6		class -> constructor	4
operating system	6		code -> compiler	4
planning	6		java -> variable	4
assembly	5		object-oriented programming -> object	4
bug	5		program -> user	4
debugging	5		programming language -> c++	4
grafical user interface	5		programming -> code	4
hardware	5		programming -> python	4
instance variable	5		user -> program	4
package	5		c -> language	3
php	5		java -> language	3
prosessor	5		java -> method	3
application generator	4		language -> assembly	3
boolean	4		language -> paradigm	3
command	4		loop -> for	3
editor	4		loop -> while	3
information structure	4		method -> value	3
internet	4		object -> list	3
javascript	4		object-oriented programming -> class	3
lecture	4		object-oriented programming -> python	3
mathematics	4		problem -> programming	3
memory	4		program code -> object	3
paradigm	4		program -> code	3
primitive type	4		program -> library	3
primitive variable	4		program -> object	3
programming environment	4		program -> operating system	3
source code	4		program -> user interface	3
syntax	4		programmer -> code	3
value	4		programming language -> code	3
abstraction level	3		programming language -> machine language	3
aim	3		programming language -> object-oriented programming	3
application	3		programming -> assistive tool	3
application program	3		programming -> user	3
assistive tool	3		python -> language	3
basic	3		python -> object	3
char	3		tool -> compiler	3
client	3		tool -> debugger	3
coding	3		user -> code	3
concept	3		variable -> instance	3
for	3		variable -> local	3
functional programming	3		abstraction level -> high	2
functioning of program	3		abstraction level -> low	2
functioning program	3		assistive tool -> debugger	2
human	3		assistive tool -> eclipse	2
if	3		c++ -> language	2
instance	3		c++ -> object-oriented programming	2
keeper of the most recent	3		c++ -> program	2
local	3		class -> program code	2
logic	3		code -> programming language	2
parsing	3		compiler -> machine language	2
plan	3		computer -> code	2
structure	3		computer -> program	2
task	3		computer -> programming	2
while	3		eclipse -> debugger	2
virtual machine	3		editor -> code	2
visual basic	3		information -> variable	2
agile	2		input -> method	2
artificial intelligence	2		java -> concept	2
asm	2		java -> eclipse	2
basic data type	2		java -> loop	2
book	2		java -> program	2
c language	2		language -> c++	2
c#	2		library -> class	2
c/c++	2		loop -> do	2
clarity	2		loop -> programming	2

coder	2		memory -> processor	2
computation	2		method -> output	2
computer program	2		method -> parameter	2
constructor parameter	2		object -> algorithm	2
database	2		object -> object	2
development	2		object -> parameter	2
do	2		object -> programming	2
documentation	2		object-oriented programming -> variable	2
else	2		parameter -> method	2
environment	2		plan -> program code	2
example	2		primitive type -> boolean	2
for example java	2		problem -> program	2
function programming	2		problem -> programming language	2
function-based	2		program code -> class	2
google	2		program code -> variable	2
grafical	2		program -> application	2
hardware level	2		program -> bug	2
high	2		program -> compiler	2
history	2		program -> function	2
i	2		program -> hardware	2
ide	2		program -> method	2
information	2		program -> other programmer	2
information processing	2		program -> tool	2
input	2		program -> variable	2
integer	2		programmer -> user	2
java programming	2		programming environment -> eclipse	2
keeper of the most suitable	2		programming language -> php	2
local variable	2		programming language -> programming	2
logic operator	2		programming -> abstraction level	2
logic thinking	2		programming -> algorithm	2
loosing attention	2		programming -> c	2
low	2		programming -> c++	2
machine	2		programming -> class	2
not working	2		programming -> compiler	2
object-based	2		programming -> computer program	2
other	2		programming -> function	2
other language	2		programming -> information structure	2
other object	2		programming -> logic	2
other programmer	2		programming -> machine language	2
output	2		programming -> mathematics	2
pascal	2		programming -> method	2
private	2		programming -> other language	2
problem/task	2		programming -> program code	2
procedural programming	2		programming -> programming environment	2
public	2		programming -> style	2
result	2		programming -> theory	2
returning of value	2		processor -> program	2
role	2		starting method -> class	2
scheme	2		structure -> conditional sentence	2
software	2		testing -> programming	2
solution	2		tool -> application generator	2
studying	2		user interface -> grafical	2
style	2		user interface -> program	2
syntax error	2		user interface -> text-based	2
table	2		user interface -> user	2
text-based	2		user -> programmer	2
theory	2		variable -> class	2
type	2		variable -> double	2
utility program	2		variable -> instance variable	2
waterfall	2		variable -> int	2
web	2		variable -> keeper of the most recent	2
void	2		variable -> keeper of the most suitable	2
working life	2		variable -> parameter	2

This is a listing of response alternatives for self-evaluation of 147 university students of introductory Java programming course who we asked to draw with our method concept maps representing their knowledge about learning topic “programming” (analysis of responses given by students is discussed in Subchapter 8.2)

For three questions the student replied by selecting a most suitable answer from a scale of five given alternatives that are listed here next.

*Response alternatives for question “How much you have experience about programming before participating introductory programming course?” (it can be expected to be clear for the students from the context that this question refers specifically to their current introductory programming course):*

Very much; Much; Moderately; Little; or Very little.

(In Finnish: Paljonko sinulla on kokemusta ohjelmoinnista ennen ohjelmointikurssi?

Erittäin paljon; Paljon; Kohtalaisesti; Vähän; tai Erittäin vähän.)

*Response alternatives for question “Is it easy for you at the moment to learn programming?”:*

Very easy; Easy; Moderate; Difficult; or Very difficult.

(In Finnish: Onko sinulle tällä hetkellä helppoa oppia ohjelmointia?

Erittäin helppoa; Helppoa; Kohtalaista; Vaikeaa; tai Erittäin vaikeaa.)

*Response alternatives for question “Please give an estimate about how complex things your concept map is dealing with?”:*

Very complex; Complex; Moderate; Simple; or Very simple.

(In Finnish: Anna arvio, kuinka monimutkaisia asioita käsittekarttasi käsittelee.

Erittäin monimutkaisia; Monimutkaisia; Kohtalaisia; Yksinkertaisia; tai Erittäin yksinkertaisia.)

(empty on purpose)

## Appendix N

This listing is based on listings of Table 3.9 and Appendix K to enable comparing the highest-ranking core relationships in concept maps drawn by students (n=103) and traversed hyperlinks of the Wikipedia in exploration paths of students (n=49), and to identify those relationships that exist in both listings, indicated with an asterisk (\*).

In columns 1-3 is a list of 145 core relationships that are in fact all those relationships between 102 core concepts extended with concept “brother” that are mentioned by at least two students in concept maps drawn by students (n=103), shown in descending order of occurrences in concept maps (based on Table 3.9). However to enable comparison with knowledge structures of the Wikipedia, each concept was transformed to the closest matching entry of Wikipedia articles according to listing of Appendix F which also explains why Sibling is used to represent concept “brother”. Since relationships of concept maps do not have any specified linking direction, each pair of concepts are shown in alphabetical order.

In columns 4-6 is a list of highest-ranking traversed hyperlinks of the Wikipedia in exploration paths of students (n=49), shown for all students (based on Appendix K). Exploration experiment with students was carried out in “hyperlink network of 55 concepts” containing 212 hyperlinks connecting 55 concepts. The number of traversals for hyperlinks departing from Human (for example for Human -> Diet\_(nutrition) value 19) includes all those traversals that originate from the fact that in the experiment all exploration paths of students had to start always from concept Human, however in parenthesis (for example for Human -> Diet\_(nutrition) value 2) is shown the number of traversals when excluding hyperlinks departing from concept Human that were the student’s first traversed hyperlink in exploration path.

Hyperlinks supplied with notation “only to roll back” belong to 14 hyperlinks (shown in Appendix J) that supplement 212 hyperlinks of “hyperlink network of 55 concepts” and were traversed to roll back to previously visited concept when the student’s exploration had lead to a next concept that did not offer any outgoing hyperlinks for further exploration or if all outgoing hyperlinks had been already traversed once earlier during this same exploration.

In contrast with practice used often elsewhere in this publication, in Appendix N as well as in Table 9.1 and Table 9.2 if ranking is based on shared ranking positions we have decided to give to all representatives of this shared position the same ranking value which is a ranking value that would have been used next if there were not need for sharing the position (i.e. we now avoid using an average of all ranking values that would have been used if there were not need for sharing the position and skipping corresponding number of ranking values). We decided to use all ranking values even in case of shared ranking so that our analysis about overlap of listing of corresponding highest-ranking core relationships and highest-ranking traversed hyperlinks discussed in Chapter 9 could become more intuitive.



Conceptual network of concept maps drawn by students			Hyperlink network of the Wikipedia		
<i>Core relationships (i.e. relationships between 102 core concepts extended with concept "brother" that are mentioned by at least two students in concept maps drawn by students) shown so that each concept is transformed to the closest matching entry of Wikipedia article (relationships of concept maps do not have any specified linking direction, each pair of concepts are shown in alphabetical order) (n=103)</i>	<i>Number of occurrences so that at most one occurrence counted for each student</i>	<i>Ranking</i>	<i>Traversed hyperlinks of the Wikipedia in exploration paths of students (n=49)</i>	<i>Number of occurrences so that at most one occurrence counted for each student</i>	<i>Ranking</i>
Family≠Friendship	15	1	Happiness -> Emotion	29	1
* Birth≠Death	13	2s	* Emotion -> Love	26	2
* Family≠Love	13	2s	Joy -> Happiness	24	3s
Friendship≠School	10	3	* Disease -> Death	24	3s
* Family≠Home	9	4s	Happiness -> Joy	21	4
School≠Work	9	4s	Human -> Diet (nutrition)	19 (2)	5s
* Animal≠Nature	8	5s	Emotion -> Experience	19	5s
* Friendship≠Love	8	5s	Experience -> Emotion (only to roll back)	18	6
* Child≠Family	7	6s	Organism -> Biology	17	7s
Death≠Living	7	6s	Adolescence -> Education	17	7s
* Family≠Father	7	6s	* Love -> Friendship	16	8
Family≠Living	7	6s	Education -> Learning	14	9s
Joy≠Sorrow	7	6s	Learning -> Education	14	9s
* Family≠Mother	6	7s	Emotion -> Happiness	14	9s
* Father≠Mother	6	7s	* Family -> Mother	13	10s
Food≠Water	6	7s	Diet_(nutrition) -> Health	13	10s
Friendship≠Hobby	6	7s	* Health -> Disease	13	10s
Money≠Work	6	7s	* Love -> Happiness	11	11s
Birth≠Living	5	8s	Emotion -> Joy	11	11s
Education≠Work	5	8s	* Love -> Emotion	10	12s
Living≠Nature	5	8s	* Friendship -> Adolescence	10	12s
* Nature≠Plant	5	8s	* Biology -> Nature	9	13s
* Plant≠Tree	5	8s	Organism -> Plant	9	13s
Study≠Work	5	8s	* Oxygen -> Water	9	13s
Animal≠Dog	4	9s	Human -> Adolescence	9 (2)	13s
Atmosphere_of_Earth≠Water	4	9s	* Human -> Family	9 (6)	13s
Cat≠Dog	4	9s	Human -> Emotion	9 (3)	13s
Computer≠Television	4	9s	Adolescence -> Child	9	13s
* Death≠Disease	4	9s	Sun -> Plant	8	14s
Death≠Health	4	9s	Organism -> Heart	8	14s
Family≠Happiness	4	9s	Human -> Health	8 (3)	14s
* Family≠Human	4	9s	Experience -> Learning (only to roll back)	8	14s
Friendship≠Happiness	4	9s	* Death -> Disease	8	14s
Friendship≠Human	4	9s	* Death -> War	8	14s
Friendship≠Joy	4	9s	Learning -> Experience	8	14s
Home≠Living	4	9s	* Love -> Family	8	14s
Human≠Living	4	9s	War -> Peace	8	14s
* Human≠Love	4	9s	Mother -> Parent	8	14s
* Human≠Nature	4	9s	Biology -> Organism	7	15s
Living≠Work	4	9s	Biology -> Animal	7	15s
Nature≠Water	4	9s	Oxygen -> Plant	7	15s
Animal≠Family	3	10s	Joy -> Emotion (only to roll back)	7	15s
Animal≠Food	3	10s	* Plant -> Tree	7	15s
* Animal≠Human	3	10s	* Sea -> Water	7	15s
* Biology≠Nature	3	10s	* Family -> Sibling	7	15s
Birth≠Health	3	10s	Sibling -> Love	7	15s
* Death≠Human	3	10s	* Water -> Sea	7	15s
* Death≠Old_age	3	10s	Sun -> Oxygen	6	16s
Death≠Sorrow	3	10s	* Animal -> Human	6	16s
* Death≠War	3	10s	* Animal -> Nature	6	16s
Dog≠Family	3	10s	Human -> Happiness	6 (5)	16s
Dog≠Pet	3	10s	* Plant -> Nature	6	16s
* Education≠School	3	10s	Plant -> Light	6	16s
Family≠House	3	10s	* School -> Education	6	16s

Family=Joy	3	10s	* Education -> School	6	16s
Family=Work	3	10s	Education -> Adolescence	6	16s
* Food=Health	3	10s	Education -> Leisure	6	16s
Food=Living	3	10s	Death -> Organism	6	16s
Friendship=Party	3	10s	* Death -> Human	6	16s
Ground=Water	3	10s	* Child -> Family	6	16s
* Happiness=Love	3	10s	Teacher -> Learning	6	16s
Hobby=Leisure	3	10s	* Family -> Child	6	16s
Hobby=School	3	10s	Peace -> Education	6	16s
* Home=House	3	10s	Diet_(nutrition) -> Organism	6	16s
Home=School	3	10s	Heart -> Organism (only to roll back)	6	16s
Home=Work	3	10s	* Mother -> Love	6	16s
Living=Religion	3	10s	Biology -> Human	5	17s
Living=School	3	10s	Human -> War	5 (3)	17s
Living=Water	3	10s	God -> Father	5	17s
* Nature=Sun	3	10s	Education -> Human	5	17s
School=Study	3	10s	Education -> Teacher	5	17s
* Adolescence=Friendship	2	11s	Death -> Heart	5	17s
Animal=Environment	2	11s	Child -> Adolescence	5	17s
Animal=God	2	11s	* Teacher -> School	5	17s
Animal=Tree	2	11s	Tree -> Oxygen	5	17s
Atmosphere_of_Earth=Ground	2	11s	Love -> Biology	5	17s
Automobile=Family	2	11s	Heart -> Death (only to roll back)	5	17s
Automobile=House	2	11s	Health -> Biology	5	17s
Birth=Child	2	11s	Work -> Leisure (only to roll back)	5	17s
Birth=Family	2	11s	Religion -> God	5	17s
Birth=Growing	2	11s	Light -> Sun	5	17s
Birth=Human	2	11s	Parent -> Human	5	17s
Birth=Nature	2	11s	Parent -> Birth	5	17s
Book=School	2	11s	Leisure -> Work	5	17s
Chair=House	2	11s	Animal -> Organism	4	18s
Child=Hospital	2	11s	Father -> Love	4	18s
Child=Human	2	11s	* School -> Teacher	4	18s
Clock=Computer	2	11s	Child -> Parent	4	18s
Clock=School	2	11s	* Nature -> Animal	4	18s
Clothing=Shoe	2	11s	* Nature -> Human	4	18s
Computer=Leisure	2	11s	Adolescence -> Old_age	4	18s
Death=Nature	2	11s	* Happiness -> Love	4	18s
Diet_(nutrition)=Water	2	11s	* Family -> Father	4	18s
* Disease=Health	2	11s	Family -> Leisure	4	18s
Dream=Health	2	11s	War -> Religion	4	18s
Education=Living	2	11s	Health -> Diet_(nutrition)	4	18s
* Emotion=Love	2	11s	Leisure -> Family	4	18s
Environment=Family	2	11s	Water -> Sun	4	18s
Environment=Nature	2	11s	Oxygen -> Sun	3	19s
Experience=Work	2	11s	Oxygen -> Disease	3	19s
Family=Health	2	11s	* Human -> Love	3 (2)	19s
Family=Hobby	2	11s	Human -> Religion	3 (0)	19s
Family=Money	2	11s	Human -> Clothing	3 (2)	19s
Family=Pet	2	11s	* Father -> Family	3	19s
* Family=Sibling	2	11s	Plant -> Organism	3	19s
Family=Study	2	11s	Plant -> Water	3	19s
Family=Telephone	2	11s	* Nature -> Sun	3	19s
Father=Home	2	11s	Nature -> Organism	3	19s
Food=Television	2	11s	Nature -> Oxygen	3	19s
Friendship=Leisure	2	11s	* Nature -> Plant	3	19s
Friendship=Living	2	11s	Travel -> Water	3	19s
Friendship=Pet	2	11s	Adolescence -> Television	3	19s
Friendship=Sibling	2	11s	Learning -> Teacher (only to roll back)	3	19s
Friendship=Study	2	11s	Diet_(nutrition) -> Death	3	19s
Friendship=Work	2	11s	Sibling -> Parent	3	19s
God=Organism	2	11s	War -> Disease	3	19s
Ground=Nature	2	11s	Birth -> Animal	3	19s
Health=Light	2	11s	Television -> Adolescence (only to roll back)	3	19s

Health=Old_age	2	11s	Religion -> Human	3	19s
Health=Physical_fitness	2	11s	* Old_age -> Death	3	19s
Heart=Love	2	11s	* Water -> Oxygen	3	19s
Hobby=Work	2	11s	Water -> Plant	3	19s
Holiday=Party	2	11s	Water -> Travel	3	19s
Holiday=Work	2	11s	Automobile -> Oxygen	2	20s
Home=Mother	2	11s	Biology -> Plant	2	20s
House=Work	2	11s	Biology -> Health	2	20s
Joy=Living	2	11s	Oxygen -> Automobile	2	20s
Joy=Love	2	11s	Oxygen -> Heart	2	20s
Learning=Love	2	11s	Human -> Oxygen	2 (1)	20s
* Leisure=Television	2	11s	Human -> House	2 (1)	20s
Living=Music	2	11s	Father -> Parent	2	20s
Living=Organism	2	11s	* Father -> Mother	2	20s
Living=Peace	2	11s	Plant -> Biology	2	20s
Living=Purpose	2	11s	Plant -> Animal	2	20s
Living=Sorrow	2	11s	Plant -> Oxygen	2	20s
Living=Sun	2	11s	* Home -> Family	2	20s
Living=Travel	2	11s	Education -> Biology	2	20s
* Love=Mother	2	11s	Death -> Oxygen	2	20s
Love=Nature	2	11s	Tree -> Water	2	20s
Love=Parent	2	11s	Peace -> War	2	20s
Nature=Tree	2	11s	* Sibling -> Family	2	20s
* Oxygen=Water	2	11s	* House -> Home	2	20s
* School=Teacher	2	11s	Religion -> Sun	2	20s
* Sea=Water	2	11s	Clothing -> Religion	2	20s
Summer=Sun	2	11s	Light -> Television	2	20s
			Parent -> Father	2	20s
			Parent -> Child	2	20s
			Parent -> Sibling	2	20s
			Leisure -> Education	2	20s
			Leisure -> Sibling	2	20s
			Water -> Biology	2	20s
			Friendship -> Animal	2	20s
			* Friendship -> Love	2	20s
			* Mother -> Father	2	20s
			Animal -> Oxygen	1	21s
			Animal -> Water	1	21s
			* Human -> Animal	1 (0)	21s
			Human -> Music	1 (1)	21s
			Father -> Sibling	1	21s
			Education -> Sibling	1	21s
			Child -> Old_age	1	21s
			Child -> Leisure	1	21s
			Teacher -> Education	1	21s
			Diet_(nutrition) -> Religion	1	21s
			Food -> Human	1	21s
			Disease -> Oxygen (only to roll back)	1	21s
			* Birth -> Death	1	21s
			Birth -> Mother	1	21s
			Television -> Clothing (only to roll back)	1	21s
			Television -> Light (only to roll back)	1	21s
			* Television -> Leisure (only to roll back)	1	21s
			* Health -> Food	1	21s
			Clothing -> Television	1	21s
			Parent -> Mother	1	21s
			Old_age -> Adolescence	1	21s
			* Leisure -> Television	1	21s
			Water -> Human	1	21s
			* Mother -> Family	1	21s

## Appendix O

These listings shows three key vocabularies, containing only nouns, generated for preliminary testing of proposed method of publication [P6] performed based on simple learning scenarios about children aiming to adopt basic vocabulary used in everyday life. In all key vocabularies the ranking values for each noun indicates its position among all highest-ranking nouns and thus words other than nouns are not considered.

The key vocabularies of learner's knowledge and learning objective consisted of the highest-ranking 10 percent of the nouns in text samples provided by the learner and the Wikipedia article respectively about selected topics. In listings shown here key vocabulary of learner's knowledge is based on the highest-ranking nouns occurring in a text sample generated by a test user in May 2010 about topic "child" and key vocabulary of learning objective is based on high-frequency words of Wikipedia article "Child" (relying on Wikipedia article version on 20 May 2010).

The key vocabulary of learning context consisted of 100 highest-ranking nouns used by English speaking children queried from Oxford Wordlist ((Lo Bianco et al. 2008); (Bayetto 2010)) for combination of early educational levels denoted by "Rec/Prep/K" that we will refer to as school level Preparatory (<http://www.oxfordwordlist.com/pages/search.asp>). Thus when querying the key vocabulary of learning context the following settings were used: school year was "Rec/Prep/K" and language was "English speaking" and for other settings concerning gender, indigeneous, school setting, location and text type an option "any" was used.

In the Wikipedia both entry Sister and entry Brother are redirected to shared article Sibling and thus in the Wikipedia word "sibling" can be considered to represent both words "brother" and "sister". Thus in key vocabularies of learner's knowledge and learning context words "brother" and "sister" have a shared corresponding Wikipedia article Sibling, indicated with an asterisk (\*) in listings below. It was considered that in key vocabulary of learning objective words "criminal" and "imprisonment" cover related themes and thus "imprisonment" was combined with "criminal" and thus they have a shared corresponding Wikipedia article Crime, indicated with an double asterisk (\*\*\*) in listings below.

When generating key vocabulary of learning context based on highest-ranking nouns of Oxford Wordlist numerals were excluded (in contrast with key vocabulary of learning objective) and word "fun", that would have been positioned in ranking listing between "day" and "play", was excluded (in contrast with the emergence of concept Fun in other analysis, for example among core concepts, see Appendix F) and word "can" was included as a noun form although we assume that "can" has gained its high-ranking position in Oxford Wordlist due to its verb form. Sequences of words in alphabetical and non-alphabetical order in Oxford Wordlist ((Lo Bianco et al. 2008); (Bayetto 2010)) (<http://www.oxfordwordlist.com/pages/search.asp>) made us to suggest that perhaps some of the ranking values should be considered as shared ranking values. It remained as an open question if some of ranking values of Oxford Wordlist (in column indicated with a triple asterisk (\*\*\*) in listing below) should be shared and finally we decided to give individual ranking value that increase one by one to all words in our listing of key vocabulary of learning context (i.e. no shared ranking values were used).

Key vocabulary of learner's knowledge			Key vocabulary of learning objective			Key vocabulary of learning context		
Concept	The closest matching entry of Wikipedia article	Ranking	Concept	The closest matching entry of Wikipedia article	Ranking	Concept	The closest matching entry of Wikipedia article	Ranking***
girl	Girl	1	child	Child	1	weekend	Weekend	1
boy	Boy	2	age	Age	2	dad	Father	2
school	School	3	country	Country	3	home	Home	3
kindergarten	Kindergarten	4	attitude	Attitude	4shared	house	House	4
protection	Protection	5	time	Time	4shared	mum	Mother	5
laugh	Laughter	6	group	Group	5shared	time	Time	6
cry	Cry	7	marriage	Marriage	5shared	day	Day	7
worry	Worry (emotion)	8	year	Year	5shared	play	Play_(disambiguation)	8
joy	Joy	9	action	Action	6shared	park	Park	9
color	Color	10	adhd	Attention_deficit_hyperactivity_disorder	6shared	birthday	Birthday	10
ball	Ball	11	criminal**	Crime**	6shared	Saturday	Saturday	11
sandbox	Sandbox	12	education	Education	6shared	party	Party	12
game	Game	13	human	Human	6shared	Sunday	Sunday	13
square	Square	14	imprisonment**	Imprisonment**	(imprisonment combined with criminal, thus shared corresponding Wikipedia article Crime)	dog	Dog	14
backpack	Backpack	15	law	Law	6shared	brother*	Sibling*	15
		16	learning	Learning	6shared	football	Football	16
baby	Infant	17	majority	Majority	6shared	friends	Friendship	17
home	Home	18	play	Play (disambiguation)	6shared	can	Can	18
father	Father	19	seven	7_(number)	6shared	love	Love	19
mother	Mother	20	skill	Skill	6shared	zoo	Zoo	20
sister*	Sibling*	21	stage	Stage	6shared	school	School	21
brother*	Sibling*	(already above)	way	Way	6shared	playing	Play_(activity)	22
			world	World	6shared	night	Night	23
						bed	Bed	24
						shop	Shop	25
						bike	Bike	26
						dinner	Dinner	27
						car	Automobile	28
						fish	Fish	29
						beach	Beach	30
						sister*	Sibling*	(already above)
						name	Name	31
						people	People	32
						movies	Film	33
						water	Water	34
						book	Book	35
						Friday	Friday	36
						toy	Toy	37
						shark	Shark	38
						family	Family	39
						playground	Playground	40
						tv	Television	41
						buddy	Buddy	42
						cat	Cat	43

						lunch	Luncheon	44
						yesterday	Yesterday	45
						girl	Girl	46
						icecream	Ice_cream	47
						swimming	Swimming	48
						baby	Infant	49
						holidays	Holiday	50
						ride	Ride	51
						dinosaur	Dinosaur	52
						game	Game	53
						present	Present	54
						slide	Slide	55
						ball	Ball	56
						shopping	Shopping	57
						chips	Chip_(disambiguation)	58
						food	Food	59
						work	Work	60
						footy	Footy	61
						magic	Magic	62
						mermaid	Mermaid	63
						rabbit	Rabbit	64
						soccer	Association_football	65
						dragon	Dragon	66
						fairy	Fairy	67
						hair	Hair	68
						boat	Boat	69
						cousin	Cousin	70
						jungle	Jungle	71
						riding	Riding	72
						zebra	Zebra	73
						animals	Animal	74
						cake	Cake	75
						castle	Castle	76
						chocolate	Chocolate	77
						horse	Horse	78
						Monday	Monday	79
						morning	Morning	80
						pool	Pool	81
						room	Room	82
						sea	Sea	83
						sleepover	Sleepover	84
						today	Today	85
						breakfast	Breakfast	86
						garden	Garden	87
						monkey	Monkey	88
						monster	Monster	89
						outside	Outside	90
						show	Show	91
						week	Week	92
						computer	Computer	93
						inside	Inside	94
						lion	Lion	95
						parade	Parade	96
						pirate	Piracy	97
						snake	Snake	98
						tiger	Tiger	99

(empty on purpose)

## Appendix P

Listing that shows the highest-ranking words (only common nouns) gathered in our experiment from teenaged students (n=103) when they were asked to list and rank most significant vocabulary concerning topic “life”. This listing shows high-frequency words with ranking based on occurrences in word lists of 20 words generated by students (each student could mention each concept at most once in her word list).

Following rule was used when generating this listing: for each concept at most one occurrence is counted per student, and if concepts share same frequency value and thus same ranking position these concepts get an average of consecutive ranking values that they would have gotten if not sharing the same ranking position (notation suffix -s indicates shared ranking position).

Notation containing slash symbol (/) separating two concepts is used when a word gathered from students was considered to have more than one possible dominating form of interpretation or translation. Although excluded from the list below since not qualified as suitable common nouns, students mentioned in their word lists two specific languages, including 7 occurrences for Finnish and 1 occurrence for German.

Ranking	Concept in English	Concept in Finnish	Occurrences
1	family	perhe	53
2	friend	ystävä	49
3	work	työ	41
4	death	kuolema	40
5.5s	love; school	rakkaus; koulu	33
7.5s	food; water	ruoka; vesi	31
9	animal	eläin	29
10	human	ihminen	24
11	birth	syntymä	23
12	nature	luonto	21
13	home	koti	18
15s	child; joy; sun	lapsi; ilo; aurinko	16
18s	dog; hobby; house	koira; harrastus; talo	15
22s	education; health; money; sorrow; study	koulutus; terveys; raha; suru; opiskelu	14
25	computer	tietokone	13
26	plant	kasvi	12
28s	car; happiness; tree	auto; onnellisuus; puu	11
30.5s	book; cat	kirja; kissa	10
34.5s	air; clock; learning; mother; summer; television	ilma; kello; oppiminen; äiti; kesä; televisio	9
39.5s	living; music; party; religion	eläminen; musiikki; juhla; uskonto	8
46.5s	city; cloth; elderness; environment; father; free_time; holiday; light; pet; world	kaupunki; vaate; vanhuus; ympäristö; isä; vapaa-aika; loma; valo; lemmikki; maailma	7
58s	childhood; disease; emotion; experience; fun; ground/Earth; growing; hate; heart; paper; sea; shoe; sport	lapsuus; sairaus; tunne; kokemus; hupi; maa; kasvaminen; viha; sydän; paperi; meri; kenkä; urheilu	6
71.5s	baby; biology; eating; flower; forest; god; goodness; peace; pen/pencil; philosophy; purpose; succeeding; war; young (person)	vauva; biologia; syöminen; kukka; metsä; jumala; hyvyys; rauha; kynä; filosofia; tarkoitus; onnistuminen; sota; nuori	5
90.5s	bed; bread; chair; dream_(sleeping); pleasure; evolution; exam; future; goal_(to_achieve); hospital; marriage; nutriment; organism; oxygen; parent; people; phone; physical_training; rain; sadness; sister; teacher; time; travel	sänky; leipä; tuoli; uni; nautinto; evoluutio; koe; tulevaisuus; tavoite; sairaala; avioliitto; ravinto; eliö; happi; vanhempi; ihminen_(ryhmä); puhelin; liikunta; sade; surullisuus; sisko; opettaja; aika; matka	4
128s	adulthood; art; bird; blood; breath; breathing; brother; career; cell; culture; dance; dating; difference; dissatisfaction; dna; dream_(wishing); drink; earth; economy; fire; freedom; gift; greenness; hardness; ice_cream; laugh; leaf/newspaper; learning_content; life_cycle; lifestyle; luck; moral; notebook; pain; problem; relationship; relative; reproduction; science; sky/heaven; smallness; sociality; spirit; suffering; travelling; weather; wheel/bicycle; wife; working_place; year; youth	aikuisuus; taide; lintu; veri; hengitys; hengitys; veli; ura; solu; kulttuuri; tanssi; seurustelu; erilaisuus; pettymys; dna; unelma; juoma; maapallo; talous; tuli; vapaus; lahja; vihreys; kovuus; jäätelö; nauru; lehti; oppi; elämäntapa; onni; moraali; vihko; tuska; ongelma; suhde; sukulainen; lisääntyminen; tiede; taivas; pienuus; sosiaalisuus; henki; kärsimys; matkustaminen; sää; pyörä; vaimo; työpaikka; vuosi; nuoruus	3
198s	accessory; achievement; adult; age; apartment; autumn; ball; beach; bear; beer; being; being_alive;	varuste; saavutus; aikuinen; ikä; asunto; syksy; pallo; ranta; karhu; olut; oleminen;	2





	<p>property_(belongings); question; reading; realisticness; reason; record_(new_achievement); rectangle; regeneration; relaxing; residing; respect; responsibility; rna; road; robot; rock_'n_roll; rock_(ground_material); room_(in_apartment); satisfaction; school_institution; sealife; senate; sharpener_(for_pencils); shelf; shelter; shine; shortness; shower; sign; silence; singing; single-home_house; ice skate; skateboard; skill; sky; sleeping; slowness; snow; snowboard; social_life; sock; sofa; soul; space; spirituality; spoon; spouse; square; star; start; stock_(economics); strangeness; string_(of_clothing); string_of_life; study book; style; suicide; sunshine; surfboard; survival; surviving; survivor; suspense; swimming; talent; target_of_attention; teaching; teaching_children; technology; teen; tennis; thing; thinking; thought; tiger; tradition; trip; ugliness; undersea; understanding; uneven; unfairness; uniqueness; value; variation; videogame_device; view_(opinion); vitamin; vocation; volleyball; volcano; walking; wall_(of_room); warmth; weekday; weirdness; well-being; window; winter; woman; wonderfulness; worry; writing; zebra</p>	<p>lonkka; penaali; eläke; valhe; persoona; feeniks; fotosynteesi; fyysisyys; fysiikka; lentokone; leikki-ikä; pelaaminen; politiikka; lampi; valmius; peto; raskaus; presidentti; saalis; yksityisyys; tuottaja; omaisuus; omaisuus; kysymys; lukeminen; todenmukaisuus; syy; ennätys; ruutu; uusiutuminen_(regeneraatio); rentoutuminen; asuminen; kunnioittaminen; vastuuntunto; rna; tie; robotti; rock_'n_roll; kallio; huone; tyydytys; koululaitos; merielämä; hallitus; teroitin; hylly; suoja; paiste; lyhyys; suihku; merkki; hiljaisuus; laulaminen; omakotitalo; luistin; skeittilauta; taito; taivas; nukkuminen; hitaus; lumi; lumilauta; sosiaalinen_elämä; sukka; sohva; sielu; avaruus/tila; hengellisyys; lusikka; puoliso; neliö; tähti; alku; osake; outous; lanka; elämänlanka; oppikirja; tyyli; itsemurha; auringonpaiste; surffilauta; selviytyminen; selviytyminen; selviytyjä; jännitys; uiminen; kyky; mielenkiinnon_kohde; opetus; lastenkasvatus; teknologia; teini; tennis; asia/esine; ajattelu; ajatus; tiikeri; perinne; retki; rumuus; merenalainen; ymmärtäminen; epätasaisuus; vääryys; ainutlaatuisuus; arvo; vaihtelevuus; videopelilaitte; näkemys; vitamiini; kutsumus; lentopallo; tulivuori; käveleminen; seinä; lämpö; arki; omituisuus; hyvinvointi; ikkuna; talvi; nainen; suurenmoisuus; huoli; kirjoittaminen; seepra</p>	
--	---	--	--

(empty on purpose)

## Appendix Q

This list shows the high-frequency words (only common nouns) gathered in our experiment from teenaged students (n=103) when they were asked to list and rank most significant vocabulary concerning topic “life”. This list shows high-frequency words with ranking based on sum of “measures of importance” originating from ranking given by each student for the words she generated to form her word list of 20 words (ranking values of “measure of importance” originally given by students in ascending range from 1 to 20 were translated to an inverse descending range of measures of importance from 21 to 1, thus greater value now indicating more important).

Following rule was used when generating the list: for each concept we counted together all “measure of importance” values, and if concepts share same frequency value and thus same ranking position these concepts get an average of consecutive ranking values that they would have gotten if not sharing the same ranking position (notation suffix -s indicates shared ranking position).

Notation containing slash symbol (/) separating two concepts is used when a word gathered from students was considered to have more than one possible dominating form of interpretation or translation. Although excluded from the list below since not qualified as suitable common nouns, for two specific languages students mentioned in their word lists sum of measures of importance for Finnish was 76 (corresponding to about ranking 50.5s) and for German 3 (corresponding about ranking 541s).

<i>Ranking</i>	<i>Concept in English</i>	<i>Concept in Finnish</i>	<i>Sum of measures of importance</i>
1	family	perhe	903
2	friend	ystävä	821
3	love	rakkaus	525
4	work	työ	445
5	water	vesi	408
6	food	ruoka	396
7	death	kuolema	363
8	school	koulu	362
9	human	ihminen	335
10	birth	syntymä	321
11	nature	luonto	303
12	animal	eläin	285
13	home	koti	237
14	health	terveys	225
15	sun	aurinko	224
16	child	lapsi	202
17	joy	ilo	195
18	hobby	harrastus	188
19	study	opiskelu	186
20	happiness	onnellisuus	179
21	education	koulutus	172
22	house	talo	147
23	plant	kasvi	136
24	mother	äiti	133
25	money	raha	130
26	air	ilma	121
27	dog	koira	118
28	world	maailma	106
29.5s	father; living	isä; eläminen	105
31	sorrow	suru	104
32	learning	oppiminen	103
33.5s	book; computer	kirja; tietokone	99
35	clock	kello	98
36	cloth	vaate	95
38s	free time; holiday; music	vapaa-aika; loma; musiikki	91
40	party	juhla	87
41	emotion	tunne	86

43s	fun; summer; tree	hupi; kesä; puu	85
45.5s	purpose; television	tarkoitus; televisio	84
47.5s	car; heart	auto; sydän	80
49	oxygen	happi	79
50.5s	childhood; parent	lapsuus; vanhempi	76
52	environment	ympäristö	75
53	ground/Earth	maa	74
54	baby	vauva	73
55	growing	kasvaminen	72
56	peace	rauha	71
57	goodness	hyvyys	70
58	eating	syöminen	69
59.5s	light; travel	valo; matka	67
61	experience	kokemus	66
63s	goal (to achieve); pet; succeeding	tavoite; lemmikki; onnistuminen	64
65.5s	religion; sport	uskonto; urheilu	62
67	nutriment	ravinto	61
68	elderness	vanhuus	60
70s	cat; forest; god	kissa; metsä; jumala	59
72	future	tulevaisuus	58
73	brother	veli	56
74	time	aika	55
75.5s	luck; physical training	onni; liikunta	54
77	dream (sleeping)	uni	53
79.5s	city; pleasure; philosophy; shoe	kaupunki; nautinto; filosofia; kenkä	52
82.5s	learning content; marriage	oppi; avioliitto	51
84	bread	leipä	49
85	sea	meri	48
87.5s	difference; dream (wishing); flower; phone	erilaisuus; unelma; kukka; puhelin	47
90	dance	tanssi	46
91.5s	moral; working place	moraali; työpaikka	45
94.5s	bed; biology; blood; reproduction	sänky; biologia; veri; lisääntyminen	44
97	breathing	hengitys	42
98.5s	organism; people	eliö; ihminen (ryhmä)	41
100	person	henkilö	40
102s	boyfriend; cell; gift	poikaystävä; solu; lahja	39
104.5s	hospital; sociality	sairaala; sosiaalisuus	38
107s	evolution; possibility; travelling	evoluutio; mahdollisuus; matkustaminen	37
109.5s	greenness; victory	vihreys; voitto	36
115s	career; closeness; drink; horse; laugh; relationship; science; spirit; universe	ura; läheisyys; juoma; hevonen; nauru; suhde; tiede; henki; maailmankaikkeus	35
121.5s	art; pain; rain; teacher	taide; tuska; sade; opettaja	34
126.5s	adulthood; butter; identity; pen/pencil; versatility; wedding	aikuisuus; voi; identiteetti; kynä; monipuolisuus; häät	33
133.5s	adult; justice; paper; sadness; sense; sibling; sister; suffering	aikuinen; oikeus; paperi; surullisuus; aisti; sisarus; sisko; kärsimys	32
139.5s	brain; freedom; relative; senior_house	aivot; vapaus; sukulainen; vanhainkoti	31
144.5s	exam; hate; importance; wheel/bicycle; year; young (person)	koe; viha; tärkeys; pyörä; vuosi; nuori	30
148	dna	dna	29
150s	disease; disappointment; trousers	sairaus; pettymys; housut	28
153s	moving; war; wife	liikkuminen; sota; vaimo	27
158s	autumn; history; internet; law; shirt; sky/heaven; success	syksy; historia; internet; laki; paita; taivas; menestys	26
164s	culture; economy; ice cream; leaf/newspaper; planet	kulttuuri; talous; jäätelö; lehti; planeetta	25
168s	meaning; outer space; song	merkitys; ulkoavaruus; laulu	24
172s	achievement; bird; boy; confirmation_school_(religion); end	saavutus; lintu; poika; rippikoulu; loppu	23
177s	apartment; being alive; earth; sex; wish	asunto; elossaoleminen; maapallo; seksi; toive	22
185.5s	arc; bigness; dating; fulfillment; funniness; long_time; man; niceness; rock_'n_rol; surfboard; technology; wonderfulness	kaari; suuruus; seurustelu; täytyminen; huvittavuus; pitkä aika; mies/ihminen; somuus; rock_'n_rol; surffilauta; teknologia; suurenmoisuus	21
200s	age; beauty; being; belief; care; dad; difficulty; girlfriend; golf; reason; roof; silence; smallness; snowboard; survivor; tiger; youth	ikä; kauneus; oleminen; uskomus; hoito; isä; vaikeus; tyttöystävä; golf; syy; katto; hiljaisuus; pienuus; lumilauta; selviytyjä; tiikeri; nuoruus	20
218s	being_together; coal; development; doctor_(phycian); freedom_of_speech; gene; getting_wiser; head; hecticness; ideology; injustice; life_cycle; machine; organ; period; physicality; ice skate; ugliness; woman	yhdessäolo; hiili; kehitys; lääkäri; sananvapaus; geeni; viisastuminen; pää; hektisyys; ideologia; epäoikeudenmukaisuus; elämänkaari; kone; elin; valhe; fyysisuus; luistin; rumuus; nainen	19
242s	adventure; biologist; confidence; couple; cross_(symbol); cruelty; dead; dirtiness; ecosystem; electricity; eternity; family_(relatives); feeling; friendship; getting_things_done; loneliness; medicine_(discipline);	seikkailu; biologi; tyytyväisyys; pari/pariskunta; risti; julmuus; kuollut; likaisuus; ekosysteemi; sähkö; ikuisuus; suku; tuntemus; ystävyys; aikaansaavuus; yksinäisyys; lääketiede; henkinen kehitys; maito;	18

	mental_development; milk; old; past; school_institution; sealife; social_life; spirituality; star; tradition; transition; zebra	vanha; menneisyys; koululaitos; merielämä; sosiaalinen_elämä; hengellisyys; tähti; perinne; siirtymä; seepra	
269s	accessory; balance; being_(person/animal); depressiveness; duty; easy; elder; expedition; fastness; game; getting_along; giraffe; girl; home_country; mammal; neighbor; rna; satisfaction; shelter; single-home_house; sleeping; survival; teaching; videogame_device; volleyball	varuste; tasapaino; olento; masentavuus; velvollisuus; helppo; vanhus; tutkimusmatka; nopeus; peli; viihtyvyys; kirahvi; tyttö; kotimaa; nisäkäs; naapuri; rna; tyydytys; suoja; omakotitalo; nukkuminen; selviytyminen; opetus; videopelilaite; lentopallo	17
290s	activity; belonging; camp; colonization; conscience; diversity; scariness; flame; futility; getting_dumber; having_fun; interactivens; lifestyle; moment; problem; target_of_attention; weirdness	toiminta; kuuluvuus; leiri; löytöretkeily; omatunto; monimuotoisuus; pelottavuus; liekki; turhuus; tyhmistyminen; hauskanpito; vuorovaikutteisuus; elämäntapa; hetki; ongelma; mielenkiinnon_kohde; omituisuus	16
309.5s	accident; adolescence; animal_kingdom; beginning; candle; circulation_(rotation); color; drinking; enjoying; foreign_country; hardness; human_relationship; laptop; loss; minute; mobile_phone; rose; smile; spouse; stress; undersea; vocation	onnettomuus; nuoruus; eläinkunta; alku; kynttilä; kiertokulku; väri; juominen; nauttiminen; ulkoma; kovuus; ihmissuhde; kannettava; menetys; minuutti; kännykkä; ruusu; hymy; puoliso; stressi; merenalainen; kutsumus	15
332.5s	atom; breath; bug; exploration; eyeglasses; guitar; information; knowledge; lifetime; loveliness; marine_life; memory; mind; movie; mp3_player; passing_time; privacy; shower; spoon; strangeness; string_of_life; tobacco; view_(opinion); yard_(garden)	atomi; hengitys; ötokä; tutkiminen; silmälasit; kitara; tieto; tietämys; elinaika; ihanoisuus; merellinen_elämä; muisto; mieli; elokuva; mp3-soitin; ajan_viettäminen; yksityisyys; suihku; lusikka; outous; elämänlanka; tupakka; näkemys; piha	14
355s	adrenaline; attitude; bag; birthday; body-training; defeat; engagement_(prior_wedding); fashion; fishery; gender; ham; lawn; ocean; organs_(entity); photosynthesis; question; reading; residing; study_book; table; variation	adrenaliini; asenne; laukku; syntymäpäivä; kehonrakennus; häviö; kihlat; muoti; kalastusyhtiö; sukupuoli; kinkku; nurmikko; valtameri; elimistö; fotosynteesi; kysymys; lukeminen; asuminen; oppikirja; pöytä; vaihtelevuus	13
376.5s	bear; cell_phone; combat; community; farm_(farmhouse); fruit; funeral; habit; hairspray; helping; item; massacre; match_(for_firing); moving_(changing_location_of_home); outlook; park; passion; producer; property_(belongings); responsibility; sky; tennis	karhu; matkapuhelin; kamppailu; yhteisö; maatala; hedelmä; hautajaiset; tapa; hiuslakka; auttaminen; kappale; joukkotuho; tulitikki; muutto; katsomus; puisto; intohimo; tuottaja; omaisuus; vastuuntunto; taivas; tennis	12
398.5s	adversity; chicken; class; coffee_cup; competition; globalization; heredity; hope; market_(economics); molecule; motorcycle; personality; property; realismness; separation/divorce; sign; skateboard; string_(of_clothing); suicide; suspense; thinking; worry	vastoinkäyminen; kana; luokka; kahvikuppi; kilpailu; globalisoituminen; perinnöllisyys; toivo; markkinat; molekyyli; moottoripyörä; persoona; omaisuus; todenmukaisuus; ero; merkki; skeittilauta; lanka; itsemurha; jännitys; ajattelu; huoli	11
418s	admiration; bacteria; beach; candy; chair; criminal; decomposer; grandmother; hotness; ink; meat; pelvis; potential; prison; shine; surviving; thought	ihailu; bakteeri; ranta; makeinen; tuoli; rikollinen; hajottaja; isoäiti; kuumuus; muste; liha; lonkka; valmuis; vankila; paiste; selviytyminen; ajatus	10
434s	basket_ball; bush; change; consumer; effort; greatness; household_work; material; misery; need; pension; shop; space; value; weekday	koripallo; pensas; muutos; kuluttaja; ponnistelu; suurenmoisuus; kotitalous; aine; kurjuus; tarve; eläke; kauppa; avaruus/tila; arvo; arki	9
449s	beer; behavior; building; cloud; day; duck; handsomeness; heritage; lake; lungs; nightclub; room_(in_apartment); sock; start; uniqueness	olut; käytös; rakennus; pilvi; päivä; ankk; komeus; perintö; järvi; keuhkot; yökerho; huone; sukka; alku; ainutlaatuisuus	8
465s	agreement; assignment; awesomeness; birch; entertainment; event; fire; glacier; homework; hurting; living_room; longing; night; robot; rock_(ground_material); soul; trap	sopimus; tehtävä; hurjuus; koivu; viihde; tapahtuma; tuli; jäätikkö; läksyt; sattuminen_(kipu); olohuone; kaipa; yö; robotti; kallio; sielu; ansa	7
483.5s	angriness; baptism_ceremony; biodiversity; church; fence; film; heaven; living_region; noise; play_age; politics; record_(new_achievement); road; sunshine; teen; understanding; unfairness; volcano; warmth; weather	vihaisuus; kastejuhla; luonnon_monimuotoisuus; kirkko; aita; filmi; taivas; asuinpaikka; melu; leikki-ikä; politiikka; ennätys; tie; auringonpaiste; teini; ymmärtäminen; väärä; tulivuori; lämpö; sää	6
506s	angel; catastrophe; coffin; complicatedness; cottage; darkness; diagnose; electronics; evilness; fur; longness; mad; medicine_(healing_chemical); miracle; nailpolish; performance; phoenix; physics; playing_(sports/game); singing; skill; sofa; spring; sunlight; swimming	enkeli; katastrofi; arkku; mutkikkuus; mökki; pimeys; diagnoosi; elektroniikka; pahuus; turkki; pituus; mielipuolinen; lääke; ihme; kynsilakka; suoritus; feeniks; fysiikka; pelaaminen; laulaminen; taito; sohva; kevät; auringonvalo; uiminen	5
526s	badness; ball; bank_(money); bill_(payment); countryside; fail; ghost; joke; kindergarten; leaf_of_lettuce; misfortune; pool_(small_lake); relaxing; trip; wall_(of_room)	huonous; pallo; pankki; lasku; maaseutu; epäonnistuminen; haamu; vitsi; tarha; salaatinlehti; epäonni; lampi; rentoutuminen; retki; seinä	4
541s	body; cheese; cider; coffee; course; driving_licence; scare; lighter_(for_firing); mandatoriness; naturalness; notebook; regeneration; shortness; snow; tax	ruumis; juusto; siideri; kahvi; kurssi; ajokortti; pelko; syytyn; pakollisuus; luonnollisuus; vihko; uusiutuminen_(regeneraatio); lyhyys; lumi; vero	3
555s	bar_(restaurant); bow_tie; carrot; challenge; death_penalty; forty-two; grass_(lawn); honey; lamp; limitedness; magic; mouse; wolf	baari; rusetti; porkkana; haaste; kuolemanrangaistus; neljäkymmentäkaksi; ruoho; hunaja; lamppu; rajallisuus; taika; hiiri; susi	2
591.5s	bond_(economics); calmness; cave; christmas; climax; climbing; closet; costume; convenience; degree_(diploma); disc; easiness; energy; eraser; flute; flying; fog; football; godship; government; guess; hair; hatred; hedgehog; honesty; kindness; knowing; life-givingness; loudspeaker; middle-ageness; minister_(politics); moon; mountain; normality; patriotism; pencil_case; plane; predator; pregnancy; president; prey;	joukkovelkakirja; rauhallisuus; luola; joulu; huippukohta; kiipeäminen; kaappi; asu; mukavuus; tutkinto; kiekko; helppous; energia; kumi; huilu; lentäminen; sumu; jalkapallo; palvonta; eduskunta; veikkaus; hiukset; vihaisuus; siili; rehellisyys; ystävällisyys; tietäminen; elämän_mahdollistaminen; kaitutin; keski-ikäisyys; ministeri; kuu; vuori; tavallisuus; isänmaanrakkaus; penaali; lentokone; peto; raskaus;	1

	rectangle; respect; senate; sharpener_(for_pencils); shelf; slowness; square; stock_(economics); style; talent; teaching_children; thing; uneven; vitamin; walking; well-being; window; winter; writing	presidentti; saalis; ruutu; kunnioittaminen; hallitus; teroitin; hylly; hitaus; neliö; osake; tyyli; kyky; lastenkasvatus; asia/esine; epätasaisuus; vitamiini; käveleminen; hyvinvointi; ikkuna; talvi; kirjoittaminen	
--	---	---	--

## Appendix R

This table shows heuristically approximated activity frequencies for four collaborator roles of Competing Values Framework in respect to 12 activities that we published in Table 2 of publication [P1] titled “Some approximated relative activity frequencies for each collaborator role”. Please note that in later additional experiments we empirically gained activity frequencies for these activities as show in Table 4.3 in Chapter 4 of current publication and we suggest giving specific attention to those empirically gained values.

<i>Activity</i>	<i>Create role</i>	<i>Compete role</i>	<i>Control role</i>	<i>Collaborate role</i>
Submits ideas	0.40	0.10	0.20	0.30
Adds nodes to concept map	0.40	0.30	0.10	0.20
Adds arcs to concept map	0.20	0.10	0.30	0.40
Makes references to ideas	0.30	0.10	0.40	0.20
Makes references to concept map	0.10	0.30	0.20	0.40
Comments ideas	0.10	0.20	0.40	0.30
Comments concept map	0.30	0.40	0.10	0.20
Sends coordination messages	0.10	0.40	0.20	0.30
Synthesizes ideas to concept map	0.20	0.10	0.40	0.30
Distributes topics from concept map to reconsideration	0.10	0.20	0.30	0.40
Explores accordance of ideas and concept map	0.40	0.30	0.20	0.10
Requests stimulation for creative thinking	0.10	0.40	0.30	0.20



(empty on purpose)

## Appendix S

We generated the shortest paths between 10 highest-ranking start concepts (including (occureces in parenthesis): human (121), food (93), water (85), nature (79), entertainment (74), transport (72), nutrition (68), mind (66), infrastructure (65), globalization (63)) and 12 highest-ranking end concepts (including (occureces in parenthesis): animal (108), human (106), water (106), earth (101), mammal (98), psychology (92), philosophy (90), law (86), religion (85), protein (85), science (80), carbon dioxide (80)) in Wikipedia hyperlinks connecting nouns of vocabulary A1&A2&B1&B2&C1&C2 of English Vocabulary Profile as shown in Table 12.9.

This first listing below shows all 628 shortest routes between 118 pairs of concepts that contained together 1393 hyperlinks of which 736 were unique. Among routes between 118 pairs of concepts 3 pairs of concepts had shortest paths containing three hyperlinks (on average 58.3 parallel paths between each pair of concepts), 78 pairs of concepts had shortest path containing two hyperlinks (on average 5.3 parallel paths between each pair of concepts) and 37 pairs of concepts had shortest paths containing one hyperlink (on average 1.0 parallel paths between each pair of concepts). The shortest paths are listed in alphabetical order so that possible parallel routes of the shortest paths between each pair of concepts are mentioned consecutively.

628 shortest routes between 118 pairs of concepts
<p><i>Shortest paths containing three hyperlinks:</i>  entertainment-&gt;animation-&gt;light-&gt;earth; entertainment-&gt;ball-&gt;sphere-&gt;earth; entertainment-&gt;camping-&gt;cold-&gt;earth;  entertainment-&gt;camping-&gt;electricity-&gt;earth; entertainment-&gt;camping-&gt;water-&gt;earth; entertainment-&gt;ceremony-&gt;battle-&gt;earth;  entertainment-&gt;cooking-&gt;carbon-&gt;earth; entertainment-&gt;dance-&gt;rainforest-&gt;earth; entertainment-&gt;education-&gt;biology-&gt;earth;  entertainment-&gt;employment-&gt;globalization-&gt;earth; entertainment-&gt;festival-&gt;season-&gt;earth; entertainment-&gt;film-&gt;sound-&gt;earth;  entertainment-&gt;film-&gt;technology-&gt;earth; entertainment-&gt;leisure-&gt;time-&gt;earth; entertainment-&gt;literature-&gt;nature-&gt;earth;  entertainment-&gt;monkey-&gt;human-&gt;earth; entertainment-&gt;music-&gt;biology-&gt;earth; entertainment-&gt;music-&gt;globalization-&gt;earth;  entertainment-&gt;music-&gt;physics-&gt;earth; entertainment-&gt;music-&gt;sound-&gt;earth; entertainment-&gt;music-&gt;time-&gt;earth;  entertainment-&gt;novel-&gt;globalization-&gt;earth; entertainment-&gt;poetry-&gt;globalization-&gt;earth; entertainment-&gt;radio-&gt;atom-&gt;earth;  entertainment-&gt;radio-&gt;horizon-&gt;earth; entertainment-&gt;radio-&gt;light-&gt;earth; entertainment-&gt;radio-&gt;technology-&gt;earth;  entertainment-&gt;rhythm-&gt;time-&gt;earth; entertainment-&gt;running-&gt;oxygen-&gt;earth; entertainment-&gt;running-&gt;speed-&gt;earth;  entertainment-&gt;singing-&gt;human-&gt;earth; entertainment-&gt;stadium-&gt;steel-&gt;earth; entertainment-&gt;television-&gt;angle-&gt;earth;  entertainment-&gt;writer-&gt;astronomy-&gt;earth; entertainment-&gt;writer-&gt;biology-&gt;earth; entertainment-&gt;writer-&gt;physics-&gt;earth;  entertainment-&gt;zoo-&gt;extinction-&gt;earth; infrastructure-&gt;bridge-&gt;river-&gt;mammal; infrastructure-&gt;bus-&gt;camel-&gt;mammal;  infrastructure-&gt;climate change-&gt;fish-&gt;mammal; infrastructure-&gt;coal-&gt;iron-&gt;mammal; infrastructure-&gt;communication-&gt;human-&gt;mammal;  infrastructure-&gt;communication-&gt;sound-&gt;mammal; infrastructure-&gt;earthquake-&gt;earth-&gt;mammal; infrastructure-&gt;economy-&gt;iron-&gt;mammal;  infrastructure-&gt;electricity-&gt;earth-&gt;mammal; infrastructure-&gt;electricity-&gt;muscle-&gt;mammal; infrastructure-&gt;electricity-&gt;shark-&gt;mammal;  infrastructure-&gt;government-&gt;fear-&gt;mammal; infrastructure-&gt;museum-&gt;animal-&gt;mammal; infrastructure-&gt;museum-&gt;zoo-&gt;mammal;  infrastructure-&gt;noise-&gt;sound-&gt;mammal; infrastructure-&gt;organization-&gt;human-&gt;mammal; infrastructure-&gt;road-&gt;river-&gt;mammal;  infrastructure-&gt;storm-&gt;desert-&gt;mammal; infrastructure-&gt;storm-&gt;earth-&gt;mammal; infrastructure-&gt;storm-&gt;rainforest-&gt;mammal;  infrastructure-&gt;sustainability-&gt;climate-&gt;mammal; infrastructure-&gt;sustainability-&gt;earth-&gt;mammal; infrastructure-&gt;sustainability-&gt;meat-&gt;mammal;  infrastructure-&gt;sustainability-&gt;river-&gt;mammal; infrastructure-&gt;telephone-&gt;sound-&gt;mammal; infrastructure-&gt;trail-&gt;horse-&gt;mammal;  infrastructure-&gt;transport-&gt;cattle-&gt;mammal; infrastructure-&gt;transport-&gt;horse-&gt;mammal; infrastructure-&gt;transport-&gt;human-&gt;mammal;  infrastructure-&gt;transport-&gt;river-&gt;mammal; infrastructure-&gt;water-&gt;acid-&gt;mammal; infrastructure-&gt;water-&gt;climate-&gt;mammal;  infrastructure-&gt;water-&gt;desert-&gt;mammal; infrastructure-&gt;water-&gt;earth-&gt;mammal; infrastructure-&gt;water-&gt;fish-&gt;mammal;  infrastructure-&gt;water-&gt;human-&gt;mammal; infrastructure-&gt;water-&gt;life-&gt;mammal; infrastructure-&gt;water-&gt;river-&gt;mammal;  infrastructure-&gt;water-&gt;whale-&gt;mammal; infrastructure-&gt;weapon-&gt;horse-&gt;mammal; infrastructure-&gt;weapon-&gt;hunting-&gt;mammal;  infrastructure-&gt;vehicle-&gt;camel-&gt;mammal; infrastructure-&gt;wheel-&gt;cattle-&gt;mammal; infrastructure-&gt;wheel-&gt;horse-&gt;mammal;  infrastructure-&gt;wheel-&gt;iron-&gt;mammal; mind-&gt;adaptation-&gt;climate-&gt;carbon dioxide; mind-&gt;art-&gt;globalization-&gt;carbon dioxide;  mind-&gt;art-&gt;pollution-&gt;carbon dioxide; mind-&gt;awareness-&gt;animal-&gt;carbon dioxide; mind-&gt;biology-&gt;agriculture-&gt;carbon dioxide;  mind-&gt;biology-&gt;animal-&gt;carbon dioxide; mind-&gt;biology-&gt;bacteria-&gt;carbon dioxide; mind-&gt;biology-&gt;climate-&gt;carbon dioxide;  mind-&gt;biology-&gt;earth-&gt;carbon dioxide; mind-&gt;biology-&gt;ecology-&gt;carbon dioxide; mind-&gt;biology-&gt;energy-&gt;carbon dioxide;  mind-&gt;biology-&gt;plant-&gt;carbon dioxide; mind-&gt;body-&gt;insect-&gt;carbon dioxide; mind-&gt;body-&gt;meat-&gt;carbon dioxide;  mind-&gt;brain-&gt;alcohol-&gt;carbon dioxide; mind-&gt;brain-&gt;insect-&gt;carbon dioxide; mind-&gt;communication-&gt;bacteria-&gt;carbon dioxide;  mind-&gt;communication-&gt;plant-&gt;carbon dioxide; mind-&gt;computer-&gt;washing machine-&gt;carbon dioxide;  mind-&gt;conscience-&gt;animal-&gt;carbon dioxide; mind-&gt;conscience-&gt;carbon footprint-&gt;carbon dioxide; mind-&gt;conscience-&gt;earth-&gt;carbon dioxide;  mind-&gt;conscience-&gt;ecology-&gt;carbon dioxide; mind-&gt;economics-&gt;globalization-&gt;carbon dioxide; mind-&gt;economics-&gt;pollution-&gt;carbon dioxide;  mind-&gt;engineering-&gt;chemistry-&gt;carbon dioxide; mind-&gt;engineering-&gt;energy-&gt;carbon dioxide; mind-&gt;evolution-&gt;ant-&gt;carbon dioxide;  mind-&gt;evolution-&gt;atmosphere-&gt;carbon dioxide; mind-&gt;evolution-&gt;bacteria-&gt;carbon dioxide; mind-&gt;evolution-&gt;crocodile-&gt;carbon dioxide;  mind-&gt;evolution-&gt;earth-&gt;carbon dioxide; mind-&gt;evolution-&gt;ecology-&gt;carbon dioxide; mind-&gt;evolution-&gt;global warming-&gt;carbon dioxide;  mind-&gt;evolution-&gt;insect-&gt;carbon dioxide; mind-&gt;evolution-&gt;oxygen-&gt;carbon dioxide; mind-&gt;evolution-&gt;plant-&gt;carbon dioxide;  mind-&gt;evolution-&gt;virus-&gt;carbon dioxide; mind-&gt;family-&gt;animal-&gt;carbon dioxide; mind-&gt;fear-&gt;water-&gt;carbon dioxide;  mind-&gt;gene-&gt;bacteria-&gt;evolution-&gt;carbon dioxide; mind-&gt;gene-&gt;virus-&gt;carbon dioxide; mind-&gt;human-&gt;agriculture-&gt;carbon dioxide;  mind-&gt;human-&gt;earth-&gt;carbon dioxide; mind-&gt;human-&gt;global warming-&gt;carbon dioxide; mind-&gt;human-&gt;globalization-&gt;carbon dioxide;  mind-&gt;human-&gt;pollution-&gt;carbon dioxide; mind-&gt;human-&gt;transport-&gt;carbon dioxide; mind-&gt;idea-&gt;fish-&gt;carbon</p>

dioxide; mind->language->globalization->carbon dioxide; mind->learning->energy->carbon dioxide; mind->life->animal->carbon dioxide; mind->life->bacteria->carbon dioxide; mind->life->carbon->carbon dioxide; mind->life->coal->carbon dioxide; mind->life->earth->carbon dioxide; mind->life->ecology->carbon dioxide; mind->life->fish->carbon dioxide; mind->life->insect->carbon dioxide; mind->life->oxygen->carbon dioxide; mind->life->plant->carbon dioxide; mind->life->virus->carbon dioxide; mind->machine->energy->carbon dioxide; mind->machine->engine->carbon dioxide; mind->machine->fuel->carbon dioxide; mind->materialism->energy->carbon dioxide; mind->matter->atom->carbon dioxide; mind->matter->chemistry->carbon dioxide; mind->matter->earth->carbon dioxide; mind->matter->energy->carbon dioxide; mind->matter->gas->carbon dioxide; mind->matter->liquid->carbon dioxide; mind->matter->water->carbon dioxide; mind->perception->ecology->carbon dioxide; mind->pie->bread->carbon dioxide; mind->pie->flour->carbon dioxide; mind->pie->sea->carbon dioxide; mind->psychology->chemistry->carbon dioxide; mind->reality->energy->carbon dioxide; mind->science->chemistry->carbon dioxide; mind->science->energy->carbon dioxide; mind->skull->animal->carbon dioxide; mind->spirit->blood->carbon dioxide; mind->taste->acid->carbon dioxide; mind->taste->alcohol->carbon dioxide; mind->taste->beer->carbon dioxide; mind->taste->blood->carbon dioxide; mind->taste->meat->carbon dioxide; mind->taste->soft drink->carbon dioxide; mind->taste->wine->carbon dioxide; mind->tool->agriculture->carbon dioxide; mind->tool->animal->carbon dioxide; mind->tool->truck->carbon dioxide

*Shortest paths containing two hyperlinks:*

entertainment->dance->animal; entertainment->public transport->carbon dioxide; entertainment->monkey->human; entertainment->singing->human; entertainment->gambling->law; entertainment->literature->law; entertainment->zoo->mammal; entertainment->education->philosophy; entertainment->literature->philosophy; entertainment->writer->philosophy; entertainment->cooking->protein; entertainment->artificial intelligence->psychology; entertainment->clown->psychology; entertainment->education->psychology; entertainment->game->psychology; entertainment->imagination->psychology; entertainment->insight->psychology; entertainment->music->psychology; entertainment->novel->psychology; entertainment->festival->religion; entertainment->literature->religion; entertainment->writer->religion; entertainment->education->science; entertainment->joke->science; entertainment->camping->water; food->acid->carbon dioxide; food->agriculture->carbon dioxide; food->animal->carbon dioxide; food->bacteria->carbon dioxide; food->blood->carbon dioxide; food->bread->carbon dioxide; food->ecology->carbon dioxide; food->energy->carbon dioxide; food->fish->carbon dioxide; food->fuel->carbon dioxide; food->kidney->carbon dioxide; food->meat->carbon dioxide; food->plant->carbon dioxide; food->potato->carbon dioxide; food->rice->carbon dioxide; food->virus->carbon dioxide; food->bacteria->earth; food->evolution->earth; food->fuel->earth; food->human->earth; food->sustainability->earth; food->famine->law; food->human->law; food->sustainability->law; food->acid->mammal; food->animal->mammal; food->butter->mammal; food->evolution->mammal; food->fish->mammal; food->human->mammal; food->immune system->mammal; food->kidney->mammal; food->meat->mammal; food->milk->mammal; food->muscle->mammal; food->seed->mammal; food->human->philosophy; food->human->psychology; food->evolution->religion; food->human->religion; food->ecology->science; food->human->science; food->sustainability->science; food->blood->water; food->bread->water; food->energy->water; food->fruit->water; food->honey->water; food->kidney->water; food->milk->water; food->plant->water; food->salt->water; food->soup->water; food->steam->water; food->sugar->water; food->sustainability->water; food->vinegar->water; food->vitamin->water; globalization->habitat->animal; globalization->life->animal; globalization->nature->animal; globalization->tiger->animal; globalization->communication->human; globalization->community->human; globalization->culture->human; globalization->earth->human; globalization->health->human; globalization->nature->human; globalization->transport->human; globalization->wealth->human; globalization->crime->law; globalization->democracy->law; globalization->economist->law; globalization->famine->law; globalization->liberty->law; globalization->philosophy->law; globalization->religion->law; globalization->sustainability->law; globalization->tax->law; globalization->earth->mammal; globalization->life->mammal; globalization->nature->mammal; globalization->river->mammal; globalization->tiger->mammal; globalization->carbon dioxide->protein; globalization->life->protein; globalization->crime->psychology; globalization->culture->psychology; globalization->health->psychology; globalization->philosophy->psychology; globalization->economics->science; globalization->knowledge->science; globalization->life->science; globalization->nature->science; globalization->religion->science; globalization->sustainability->science; globalization->technology->science; globalization->carbon dioxide->water; globalization->global warming->water; globalization->health->water; globalization->river->water; globalization->sustainability->water; globalization->tiger->water; globalization->transport->water; human->digestion->animal; human->family->animal; human->female->animal; human->genetics->animal; human->reproduction->animal; human->species->animal; human->tool->animal; human->agriculture->carbon dioxide; human->earth->carbon dioxide; human->global warming->carbon dioxide; human->globalization->carbon dioxide; human->pollution->carbon dioxide; human->transport->carbon dioxide; human->cooking->protein; human->digestion->protein; human->evolution->protein; human->gene->protein; human->genetics->protein; human->hunting->protein; human->mammal->protein; human->competition->water; human->fire->water; human->global warming->water; human->health->water; human->motivation->water; human->space->water; human->transport->water; infrastructure->museum->animal; infrastructure->coal->carbon dioxide; infrastructure->energy->carbon dioxide; infrastructure->public transport->carbon dioxide; infrastructure->storm->carbon dioxide; infrastructure->transport->carbon dioxide; infrastructure->water->carbon dioxide; infrastructure->earthquake->earth; infrastructure->electricity->earth; infrastructure->storm->earth; infrastructure->sustainability->earth; infrastructure->water->earth; infrastructure->communication->human; infrastructure->organization->human; infrastructure->transport->human; infrastructure->water->human; infrastructure->college->law; infrastructure->institution->law; infrastructure->ownership->law; infrastructure->police->law; infrastructure->road->law; infrastructure->sustainability->law; infrastructure->government->philosophy; infrastructure->museum->philosophy; infrastructure->energy->protein; infrastructure->water->protein; infrastructure->organization->psychology; infrastructure->city->religion; infrastructure->institution->religion; infrastructure->society->religion; infrastructure->university->religion; infrastructure->government->science; infrastructure->museum->science; infrastructure->primary school->science; infrastructure->secondary school->science; infrastructure->sustainability->science; infrastructure->university->science; mind->awareness->animal; mind->biology->animal; mind->conscience->animal; mind->family->animal; mind->life->animal; mind->skull->animal; mind->tool->animal; mind->biology->earth; mind->conscience->earth; mind->evolution->earth; mind->human->earth; mind->life->earth; mind->matter->earth; mind->emotion->law; mind->human->law; mind->philosophy->law; mind->reason->law; mind->religion->law; mind->spirit->law; mind->emotion->mammal; mind->evolution->mammal; mind->fear->mammal; mind->human->mammal; mind->intelligence->mammal; mind->learning->mammal; mind->life->mammal; mind->love->mammal; mind->skull->mammal; mind->biology->protein; mind->evolution->protein; mind->gene->protein; mind->life->protein; mind->fear->water; mind->matter->water; nature->animal->carbon dioxide; nature->atmosphere->carbon dioxide; nature->bacteria->carbon dioxide; nature->earth->carbon dioxide; nature->energy->carbon dioxide; nature->fish->carbon dioxide; nature->gas->carbon dioxide; nature->ice->carbon dioxide; nature->liquid->carbon dioxide; nature->oxygen->carbon dioxide; nature->planet->carbon dioxide; nature->plant->carbon dioxide; nature->pollution->carbon dioxide; nature->sea->carbon dioxide; nature->sun->carbon dioxide; nature->volcano->carbon dioxide; nature->civilization->law; nature->human->law; nature->wilderness->law; nature->art->philosophy; nature->consciousness->philosophy; nature->extinction->philosophy; nature->human->philosophy; nature->life->philosophy; nature->materialism->philosophy; nature->mind->philosophy; nature-

<p>&gt;phenomenon-&gt;philosophy; nature-&gt;physics-&gt;philosophy; nature-&gt;science-&gt;philosophy; nature-&gt;animal-&gt;protein; nature-&gt;bacteria-&gt;protein; nature-&gt;biology-&gt;protein; nature-&gt;bone-&gt;protein; nature-&gt;digestion-&gt;protein; nature-&gt;dinosaur-&gt;protein; nature-&gt;dna-&gt;protein; nature-&gt;energy-&gt;protein; nature-&gt;evolution-&gt;protein; nature-&gt;fishing-&gt;protein; nature-&gt;genetics-&gt;protein; nature-&gt;hunting-&gt;protein; nature-&gt;life-&gt;protein; nature-&gt;mammal-&gt;protein; nature-&gt;muscle-&gt;protein; nature-&gt;oxygen-&gt;protein; nature-&gt;temperature-&gt;protein; nature-&gt;biology-&gt;psychology; nature-&gt;consciousness-&gt;psychology; nature-&gt;human-&gt;psychology; nature-&gt;laboratory-&gt;psychology; nature-&gt;mind-&gt;psychology; nature-&gt;science-&gt;psychology; nature-&gt;civilization-&gt;religion; nature-&gt;evolution-&gt;religion; nature-&gt;human-&gt;religion; nature-&gt;life-&gt;religion; nature-&gt;mind-&gt;religion; nature-&gt;planet-&gt;religion; nature-&gt;science-&gt;religion; nature-&gt;cloud-&gt;water; nature-&gt;energy-&gt;water; nature-&gt;extinction-&gt;water; nature-&gt;fishing-&gt;water; nature-&gt;ice-&gt;water; nature-&gt;liquid-&gt;water; nature-&gt;matter-&gt;water; nature-&gt;ocean-&gt;water; nature-&gt;oxygen-&gt;water; nature-&gt;physics-&gt;water; nature-&gt;planet-&gt;water; nature-&gt;plant-&gt;water; nature-&gt;river-&gt;water; nature-&gt;steam-&gt;water; nutrition-&gt;blood-&gt;animal; nutrition-&gt;digestion-&gt;animal; nutrition-&gt;dna-&gt;animal; nutrition-&gt;food-&gt;animal; nutrition-&gt;fruit-&gt;animal; nutrition-&gt;genetics-&gt;animal; nutrition-&gt;immune system-&gt;animal; nutrition-&gt;leaf-&gt;animal; nutrition-&gt;life-&gt;animal; nutrition-&gt;seed-&gt;animal; nutrition-&gt;agriculture-&gt;carbon dioxide; nutrition-&gt;atmosphere-&gt;carbon dioxide; nutrition-&gt;blood-&gt;carbon dioxide; nutrition-&gt;bread-&gt;carbon dioxide; nutrition-&gt;carbon-&gt;carbon dioxide; nutrition-&gt;energy-&gt;carbon dioxide; nutrition-&gt;iron-&gt;carbon dioxide; nutrition-&gt;leaf-&gt;carbon dioxide; nutrition-&gt;meat-&gt;carbon dioxide; nutrition-&gt;oxygen-&gt;carbon dioxide; nutrition-&gt;potato-&gt;carbon dioxide; nutrition-&gt;rice-&gt;carbon dioxide; nutrition-&gt;water-&gt;carbon dioxide; nutrition-&gt;wine-&gt;carbon dioxide; nutrition-&gt;atmosphere-&gt;earth; nutrition-&gt;carbon-&gt;earth; nutrition-&gt;dna-&gt;earth; nutrition-&gt;human-&gt;earth; nutrition-&gt;iron-&gt;earth; nutrition-&gt;life-&gt;earth; nutrition-&gt;oxygen-&gt;earth; nutrition-&gt;soil-&gt;earth; nutrition-&gt;sunlight-&gt;earth; nutrition-&gt;technology-&gt;earth; nutrition-&gt;water-&gt;earth; nutrition-&gt;human-&gt;human-&gt;mammal; nutrition-&gt;digestion-&gt;mammal; nutrition-&gt;human-&gt;mammal; nutrition-&gt;immune system-&gt;mammal; nutrition-&gt;iron-&gt;mammal; nutrition-&gt;life-&gt;mammal; nutrition-&gt;meat-&gt;mammal; nutrition-&gt;milk-&gt;mammal; nutrition-&gt;seed-&gt;mammal; nutrition-&gt;experiment-&gt;philosophy; nutrition-&gt;human-&gt;philosophy; nutrition-&gt;life-&gt;philosophy; nutrition-&gt;psychology-&gt;philosophy; nutrition-&gt;science-&gt;philosophy; nutrition-&gt;herb-&gt;religion; nutrition-&gt;human-&gt;religion; nutrition-&gt;life-&gt;religion; nutrition-&gt;science-&gt;religion; transport-&gt;cattle-&gt;animal; transport-&gt;horse-&gt;animal; transport-&gt;landing-&gt;animal; transport-&gt;ocean-&gt;animal; transport-&gt;team-&gt;animal; transport-&gt;globalization-&gt;earth; transport-&gt;human-&gt;earth; transport-&gt;ocean-&gt;earth; transport-&gt;soil-&gt;earth; transport-&gt;steel-&gt;earth; transport-&gt;technology-&gt;earth; transport-&gt;water-&gt;earth; transport-&gt;human-&gt;law; transport-&gt;road-&gt;law; transport-&gt;tax-&gt;law; transport-&gt;cattle-&gt;mammal; transport-&gt;horse-&gt;mammal; transport-&gt;human-&gt;mammal; transport-&gt;river-&gt;mammal; transport-&gt;education-&gt;philosophy; transport-&gt;globalization-&gt;philosophy; transport-&gt;government-&gt;philosophy; transport-&gt;human-&gt;philosophy; transport-&gt;beer-&gt;protein; transport-&gt;carbon dioxide-&gt;protein; transport-&gt;water-&gt;protein; transport-&gt;wool-&gt;protein; transport-&gt;education-&gt;psychology; transport-&gt;human-&gt;psychology; transport-&gt;city-&gt;religion; transport-&gt;globalization-&gt;religion; transport-&gt;human-&gt;religion; transport-&gt;education-&gt;science; transport-&gt;government-&gt;science; transport-&gt;human-&gt;science; transport-&gt;technology-&gt;science; water-&gt;biology-&gt;animal; water-&gt;dna-&gt;animal; water-&gt;fish-&gt;animal; water-&gt;life-&gt;animal; water-&gt;whale-&gt;animal; water-&gt;human-&gt;law; water-&gt;politics-&gt;law; water-&gt;acid-&gt;mammal; water-&gt;climate-&gt;mammal; water-&gt;desert-&gt;mammal; water-&gt;earth-&gt;mammal; water-&gt;fish-&gt;mammal; water-&gt;human-&gt;mammal; water-&gt;life-&gt;mammal; water-&gt;river-&gt;mammal; water-&gt;whale-&gt;mammal; water-&gt;human-&gt;philosophy; water-&gt;life-&gt;philosophy; water-&gt;biology-&gt;psychology; water-&gt;human-&gt;psychology; water-&gt;human-&gt;religion; water-&gt;life-&gt;religion; water-&gt;human-&gt;science; water-&gt;life-&gt;science; water-&gt;politics-&gt;science</p> <p><i>Shortest paths containing one hyperlink:</i>  food-&gt;animal; food-&gt;human; food-&gt;protein; globalization-&gt;carbon dioxide; globalization-&gt;carbon dioxide; globalization-&gt;earth; globalization-&gt;philosophy; globalization-&gt;religion; human-&gt;bikini; human-&gt;earth; human-&gt;law; human-&gt;mammal; human-&gt;philosophy; human-&gt;religion; human-&gt;science; infrastructure-&gt;water; mind-&gt;bikini; mind-&gt;human; mind-&gt;philosophy; mind-&gt;religion; mind-&gt;science; nature-&gt;animal; nature-&gt;earth; nature-&gt;human; nature-&gt;mammal; nature-&gt;science; nutrition-&gt;bikini; nutrition-&gt;human; nutrition-&gt;protein; nutrition-&gt;science; nutrition-&gt;water; transport-&gt;carbon dioxide; transport-&gt;human; transport-&gt;water; water-&gt;carbon dioxide; water-&gt;earth; water-&gt;human; water-&gt;protein</p>
--

This second listing below shows among 1393 hyperlinks those hyperlinks that occurred most often in shortest paths between 118 pairs of concepts. This listing contains all occurrence levels of hyperlinks whereas Table 12.10 was limited to shown only those hypelinks that had at least 5 occurrences.

Most occurring hyperlinks among 1393 hyperlinks between 118 pairs of concepts
<i>Hyperlinks having 15 occurrences:</i> mind->life
<i>Hyperlinks having 14 occurrences:</i> infrastructure->water; mind->evolution
<i>Hyperlinks having 13 occurrences:</i> (no hyperlinks having 13 occurrences)
<i>Hyperlinks having 12 occurrences:</i> energy->carbon dioxide
<i>Hyperlinks having 11 occurrences:</i> human->mammal; mind->biology; transport->human
<i>Hyperlinks having 10 occurrences:</i> mind->human
<i>Hyperlinks having 9 occurrences:</i> animal->carbon dioxide; globalization->carbon dioxide; human->earth; mind->matter; water->human
<i>Hyperlinks having 8 occurrences:</i> earth->carbon dioxide; food->human; globalization->earth; river->mammal
<i>Hyperlinks having 7 occurrences:</i> bacteria->carbon dioxide; earth->mammal; human->law; infrastructure->sustainability; mind->taste; water->earth
<i>Hyperlinks having 6 occurrences:</i> agriculture->carbon dioxide; ecology->carbon dioxide; entertainment->music; human->philosophy; human->religion; infrastructure->transport; mind->consciousness; nature->human; nutrition->human; plant->carbon dioxide; water->life;
<i>Hyperlinks having 5 occurrences:</i> biology->earth; entertainment->writer; horse->mammal; infrastructure->museum; infrastructure->storm; life->animal; life->mammal; nature->science; nutrition->life; pollution->carbon dioxide; transport->carbon dioxide;

transport->water; water->carbon dioxide;
<p><i>Hyperlinks having 4 occurrences:</i></p> <p>blood-&gt;carbon dioxide; chemistry-&gt;carbon dioxide; entertainment-&gt;camping; entertainment-&gt;education; entertainment-&gt;literature; entertainment-&gt;radio; fish-&gt;carbon dioxide; fish-&gt;mammal; food-&gt;animal; food-&gt;sustainability; globalization-&gt;life; globalization-&gt;nature; globalization-&gt;philosophy; globalization-&gt;religion; human-&gt;psychology; human-&gt;science; infrastructure-&gt;electricity; insect-&gt;carbon dioxide; iron-&gt;mammal; meat-&gt;carbon dioxide; mind-&gt;tool; nature-&gt;animal; oxygen-&gt;carbon dioxide; technology-&gt;earth; virus-&gt;carbon dioxide;</p>
<p><i>Hyperlinks having 3 occurrences:</i></p> <p>acid-&gt;mammal; atmosphere-&gt;carbon dioxide; biology-&gt;animal; bread-&gt;carbon dioxide; cattle-&gt;mammal; climate-&gt;mammal; communication-&gt;human; desert-&gt;mammal; electricity-&gt;earth; evolution-&gt;earth; evolution-&gt;protein; family-&gt;animal; food-&gt;evolution; food-&gt;kidney; global warming-&gt;carbon dioxide; globalization-&gt;health; globalization-&gt;sustainability; globalization-&gt;tiger; human-&gt;global warming; human-&gt;transport; infrastructure-&gt;communication; infrastructure-&gt;government; infrastructure-&gt;organization; infrastructure-&gt;wheel; life-&gt;earth; life-&gt;philosophy; life-&gt;protein; life-&gt;religion; matter-&gt;water; meat-&gt;mammal; mind-&gt;fear; mind-&gt;gene; mind-&gt;machine; mind-&gt;philosophy; mind-&gt;pie; mind-&gt;religion; mind-&gt;science; mind-&gt;skull; nature-&gt;earth; nature-&gt;energy; nature-&gt;life; nature-&gt;mammal; nature-&gt;mind; nature-&gt;oxygen; nature-&gt;planet; nutrition-&gt;iron; nutrition-&gt;science; nutrition-&gt;water; sound-&gt;mammal; sustainability-&gt;earth; sustainability-&gt;law; sustainability-&gt;science; time-&gt;earth; tool-&gt;animal; transport-&gt;cattle; transport-&gt;education; transport-&gt;globalization; transport-&gt;horse; water-&gt;fish; water-&gt;protein; water-&gt;whale;</p>
<p><i>Hyperlinks having 2 occurrences:</i></p> <p>acid-&gt;carbon dioxide; alcohol-&gt;carbon dioxide; animal-&gt;mammal; awareness-&gt;animal; biology-&gt;protein; biology-&gt;psychology; butter-&gt;mammal; camel-&gt;mammal; camping-&gt;water; carbon-&gt;carbon dioxide; carbon-&gt;earth; carbon dioxide-&gt;protein; city-&gt;religion; climate-&gt;carbon dioxide; coal-&gt;carbon dioxide; conscience-&gt;animal; conscience-&gt;earth; cooking-&gt;protein; digestion-&gt;animal; digestion-&gt;protein; dna-&gt;animal; earthquake-&gt;earth; education-&gt;philosophy; education-&gt;psychology; education-&gt;science; energy-&gt;protein; energy-&gt;water; entertainment-&gt;cooking; entertainment-&gt;dance; entertainment-&gt;festival; entertainment-&gt;film; entertainment-&gt;monkey; entertainment-&gt;novel; entertainment-&gt;running; entertainment-&gt;singing; entertainment-&gt;zoo; evolution-&gt;mammal; evolution-&gt;religion; famine-&gt;law; fear-&gt;mammal; fear-&gt;water; food-&gt;acid; food-&gt;bacteria; food-&gt;blood; food-&gt;bread; food-&gt;ecology; food-&gt;energy; food-&gt;fish; food-&gt;fuel; food-&gt;meat; food-&gt;milk; food-&gt;plant; fuel-&gt;carbon dioxide; gas-&gt;carbon dioxide; gene-&gt;protein; genetics-&gt;animal; genetics-&gt;protein; global warming-&gt;water; globalization-&gt;crime; globalization-&gt;culture; globalization-&gt;river; globalization-&gt;transport; government-&gt;philosophy; government-&gt;science; health-&gt;water; human-&gt;agriculture; human-&gt;digestion; human-&gt;genetics; human-&gt;globalization; human-&gt;pollution; hunting-&gt;protein; immune system-&gt;mammal; infrastructure-&gt;coal; infrastructure-&gt;earthquake; infrastructure-&gt;energy; infrastructure-&gt;institution; infrastructure-&gt;road; infrastructure-&gt;university; infrastructure-&gt;weapon; life-&gt;science; light-&gt;earth; liquid-&gt;carbon dioxide; mammal-&gt;protein; matter-&gt;earth; milk-&gt;mammal; mind-&gt;art; mind-&gt;awareness; mind-&gt;body; mind-&gt;brain; mind-&gt;communication; mind-&gt;economics; mind-&gt;emotion; mind-&gt;engineering; mind-&gt;family; mind-&gt;learning; mind-&gt;psychology; mind-&gt;spirit; monkey-&gt;human; muscle-&gt;mammal; museum-&gt;animal; nature-&gt;bacteria; nature-&gt;biology; nature-&gt;civilization; nature-&gt;consciousness; nature-&gt;evolution; nature-&gt;extinction; nature-&gt;fishing; nature-&gt;ice; nature-&gt;liquid; nature-&gt;physics; nature-&gt;plant; nutrition-&gt;atmosphere; nutrition-&gt;blood; nutrition-&gt;carbon; nutrition-&gt;digestion; nutrition-&gt;dna; nutrition-&gt;immune system; nutrition-&gt;leaf; nutrition-&gt;meat; nutrition-&gt;oxygen; nutrition-&gt;seed; organization-&gt;human; oxygen-&gt;earth; philosophy-&gt;law; physics-&gt;earth; plant-&gt;water; potato-&gt;carbon dioxide; public transport-&gt;carbon dioxide; religion-&gt;law; rice-&gt;carbon dioxide; river-&gt;water; road-&gt;law; science-&gt;philosophy; science-&gt;religion; sea-&gt;carbon dioxide; seed-&gt;mammal; singing-&gt;human; skull-&gt;animal; soil-&gt;earth; sound-&gt;earth; steam-&gt;water; steel-&gt;earth; storm-&gt;earth; sustainability-&gt;water; tax-&gt;law; technology-&gt;science; transport-&gt;government; transport-&gt;ocean; transport-&gt;river; transport-&gt;technology; water-&gt;acid; water-&gt;biology; water-&gt;climate; water-&gt;desert; water-&gt;politics; water-&gt;river; whale-&gt;mammal; wine-&gt;carbon dioxide; zoo-&gt;mammal;</p>
<p><i>Hyperlinks having 1 occurrences:</i></p> <p>adaptation-&gt;climate; angle-&gt;earth; animal-&gt;protein; animation-&gt;light; ant-&gt;carbon dioxide; art-&gt;globalization; art-&gt;philosophy; art-&gt;pollution; artificial intelligence-&gt;psychology; astronomy-&gt;earth; atmosphere-&gt;earth; atom-&gt;carbon dioxide; atom-&gt;earth; bacteria-&gt;earth; bacteria-&gt;protein; ball-&gt;sphere; battle-&gt;earth; beer-&gt;carbon dioxide; beer-&gt;protein; biology-&gt;agriculture; biology-&gt;bacteria; biology-&gt;climate; biology-&gt;ecology; biology-&gt;energy; biology-&gt;plant; blood-&gt;animal; blood-&gt;water; body-&gt;insect; body-&gt;meat; bone-&gt;protein; brain-&gt;alcohol; brain-&gt;insect; bread-&gt;water; bridge-&gt;river; bus-&gt;camel; camping-&gt;cold; camping-&gt;electricity; carbon dioxide-&gt;water; carbon footprint-&gt;carbon dioxide; cattle-&gt;animal; ceremony-&gt;battle; civilization-&gt;law; civilization-&gt;religion; climate change-&gt;fish; cloud-&gt;water; clown-&gt;psychology; coal-&gt;iron; cold-&gt;earth; college-&gt;law; communication-&gt;bacteria; communication-&gt;plant; communication-&gt;sound; community-&gt;human; competition-&gt;water; computer-&gt;washing machine; conscience-&gt;carbon footprint; conscience-&gt;ecology; consciousness-&gt;philosophy; consciousness-&gt;psychology; cooking-&gt;carbon; crime-&gt;law; crime-&gt;psychology; crocodile-&gt;carbon dioxide; culture-&gt;human; culture-&gt;psychology; dance-&gt;animal; dance-&gt;rainforest; democracy-&gt;law; digestion-&gt;mammal; dinosaur-&gt;protein; dna-&gt;earth; dna-&gt;protein; earth-&gt;human; ecology-&gt;science; economics-&gt;globalization; economics-&gt;pollution; economics-&gt;science; economist-&gt;law; economy-&gt;iron; education-&gt;biology; electricity-&gt;muscle; electricity-&gt;shark; emotion-&gt;law; emotion-&gt;mammal; employment-&gt;globalization; engine-&gt;carbon dioxide; engineering-&gt;chemistry; engineering-&gt;energy; entertainment-&gt;animation; entertainment-&gt;artificial intelligence; entertainment-&gt;ball; entertainment-&gt;ceremony; entertainment-&gt;clown; entertainment-&gt;employment; entertainment-&gt;gambling; entertainment-&gt;game; entertainment-&gt;imagination; entertainment-&gt;insight; entertainment-&gt;joke; entertainment-&gt;leisure; entertainment-&gt;poetry; entertainment-&gt;public transport; entertainment-&gt;rhythm; entertainment-&gt;stadium; entertainment-&gt;television; evolution-&gt;ant; evolution-&gt;atmosphere; evolution-&gt;bacteria; evolution-&gt;crocodile; evolution-&gt;ecology; evolution-&gt;global warming; evolution-&gt;insect; evolution-&gt;oxygen; evolution-&gt;plant; evolution-&gt;virus; experiment-&gt;philosophy; extinction-&gt;earth; extinction-&gt;philosophy; extinction-&gt;water; female-&gt;animal; festival-&gt;religion; festival-&gt;season; film-&gt;sound; film-&gt;technology; fire-&gt;water; fish-&gt;animal; fishing-&gt;protein; fishing-&gt;water; flour-&gt;carbon dioxide; food-&gt;agriculture; food-&gt;butter; food-&gt;famine; food-&gt;fruit; food-&gt;honey; food-&gt;immune system; food-&gt;muscle; food-&gt;potato; food-&gt;protein; food-&gt;rice; food-&gt;salt; food-&gt;seed; food-&gt;soup; food-&gt;steam; food-&gt;sugar; food-&gt;vinegar; food-&gt;virus; food-&gt;vitamin; fruit-&gt;animal; fruit-&gt;water; fuel-&gt;earth; gambling-&gt;law; game-&gt;psychology; gene-&gt;bacteria; gene-&gt;virus; globalization-&gt;communication; globalization-&gt;community; globalization-&gt;democracy; globalization-&gt;economics; globalization-&gt;economist; globalization-&gt;famine; globalization-&gt;global warming; globalization-&gt;habitat; globalization-&gt;knowledge; globalization-&gt;liberty; globalization-&gt;tax; globalization-&gt;technology; globalization-&gt;wealth; government-&gt;fear; habitat-&gt;animal; health-</p>

>human; health->psychology; herb->religion; honey->water; horizon->earth; horse->animal; human->bikini; human->competition; human->cooking; human->evolution; human->family; human->female; human->fire; human->gene; human->health; human->hunting; human->motivation; human->reproduction; human->space; human->species; human->tool; hunting->mammal; ice->carbon dioxide; ice->water; idea->fish; imagination->psychology; immune system->animal; infrastructure->bridge; infrastructure->bus; infrastructure->city; infrastructure->climate change; infrastructure->college; infrastructure->economy; infrastructure->noise; infrastructure->ownership; infrastructure->police; infrastructure->primary school; infrastructure->public transport; infrastructure->secondary school; infrastructure->society; infrastructure->telephone; infrastructure->trail; infrastructure->vehicle; insight->psychology; institution->law; institution->religion; intelligence->mammal; iron->carbon dioxide; iron->earth; joke->science; kidney->carbon dioxide; kidney->mammal; kidney->water; knowledge->science; laboratory->psychology; landing->animal; language->globalization; leaf->animal; leaf->carbon dioxide; learning->energy; learning->mammal; leisure->time; liberty->law; life->bacteria; life->carbon; life->coal; life->ecology; life->fish; life->insect; life->oxygen; life->plant; life->virus; liquid->water; literature->law; literature->nature; literature->philosophy; literature->religion; love->mammal; machine->energy; machine->engine; machine->fuel; materialism->energy; materialism->philosophy; matter->atom; matter->chemistry; matter->energy; matter->gas; matter->liquid; milk->water; mind->adaptation; mind->bikini; mind->computer; mind->idea; mind->intelligence; mind->language; mind->love; mind->materialism; mind->perception; mind->reality; mind->reason; motivation->water; muscle->protein; museum->philosophy; museum->science; museum->zoo; music->biology; music->globalization; music->physics; music->psychology; music->sound; music->time; nature->art; nature->atmosphere; nature->bone; nature->cloud; nature->digestion; nature->dinosaur; nature->dna; nature->fish; nature->gas; nature->genetics; nature->hunting; nature->laboratory; nature->materialism; nature->matter; nature->muscle; nature->ocean; nature->phenomenon; nature->pollution; nature->river; nature->sea; nature->steam; nature->sun; nature->temperature; nature->wilderness; nature->volcano; noise->sound; novel->globalization; novel->psychology; nutrition->agriculture; nutrition->bikini; nutrition->bread; nutrition->butter; nutrition->energy; nutrition->experiment; nutrition->food; nutrition->fruit; nutrition->genetics; nutrition->herb; nutrition->milk; nutrition->potato; nutrition->protein; nutrition->psychology; nutrition->rice; nutrition->soil; nutrition->sunlight; nutrition->technology; nutrition->wine; ocean->animal; ocean->earth; ocean->water; organization->psychology; ownership->law; oxygen->protein; oxygen->water; perception->ecology; phenomenon->philosophy; philosophy->psychology; physics->philosophy; physics->water; pie->bread; pie->flour; pie->sea; planet->carbon dioxide; planet->religion; planet->water; poetry->globalization; police->law; politics->law; politics->science; primary school->science; psychology->chemistry; psychology->philosophy; radio->atom; radio->horizon; radio->light; radio->technology; rainforest->earth; rainforest->mammal; reality->energy; reason->law; religion->science; reproduction->animal; rhythm->time; road->river; running->oxygen; running->speed; salt->water; science->chemistry; science->energy; science->psychology; season->earth; secondary school->science; seed->animal; shark->mammal; skull->mammal; society->religion; soft drink->carbon dioxide; soup->water; space->water; species->animal; speed->earth; sphere->earth; spirit->blood; spirit->law; stadium->steel; storm->carbon dioxide; storm->desert; storm->rainforest; sugar->water; sun->carbon dioxide; sunlight->earth; sustainability->climate; sustainability->meat; sustainability->river; taste->acid; taste->alcohol; taste->beer; taste->blood; taste->meat; taste->soft drink; taste->wine; team->animal; telephone->sound; television->angle; temperature->protein; tiger->animal; tiger->mammal; tiger->water; tool->agriculture; tool->truck; trail->horse; transport->beer; transport->city; transport->landing; transport->road; transport->soil; transport->steel; transport->tax; transport->team; transport->wool; truck->carbon dioxide; university->religion; university->science; washing machine->carbon dioxide; water->dna; wealth->human; weapon->horse; weapon->hunting; vehicle->camel; whale->animal; wheel->cattle; wheel->horse; wheel->iron; wilderness->law; vinegar->water; vitamin->water; volcano->carbon dioxide; wool->protein; writer->astronomy; writer->biology; writer->philosophy; writer->physics; writer->religion; zoo->extinction;

(empty on purpose)

## Appendix T

After publication of the publication [P1] we carried out empirical experiments of collaborative concept map construction process in small groups containing persons having ages in range of 15-18 years and representing four collaborator roles of Competing Values Framework ((Quinn et al. 1990, especially table 1.2 on page 21); (Quinn et al. 1996, especially table 1.2 on pages 23-24)). Before introducing collaborative concept map construction process to the student, we identified for each student which of four major collaborator roles (shown in Table 4.3 (originally published as Table 2 in publication [P1])) he represents by a questionnaire that is shown here in this Appendix T. Without revealing in advance what is the purpose of the questionnaire we asked the student to fill in this competing values self-assessment questionnaire that is adapted from Quinn et al. ((Quinn et al. 1990, especially table 1.2 on page 21); (Quinn et al. 1996, especially table 1.2 on pages 23-24)) and among the six sets of four questions corresponding to each four major collaborator roles the one which received highest number of points was selected as the role of the student for collaborative concept map construction process in small groups. In the questionnaire questions 1-6 concern having characteristics of innovator-broker role, then questions 7-12 producer-director role, next questions 13-18 coordinator-monitor role and finally then questions 19-24 facilitator-mentor role. We present here both English version and Finnish version of questionnaire that we used with students (Finnish version translated from English version by Lauri Lahti).



First name: \_\_\_\_\_ Last name: \_\_\_\_\_ Year of birth: \_\_\_\_\_

**All these questions ask about how you work as a member in a group.**

**Please think about what is your role/position when working in a group of people.**

For example, think about how you feel/ behave when you have to work in a student group at school or when you are doing something together with your friends.

Here you have 24 statements. Please answer how much you agree or disagree with each statement.

Select one number (1, 2, 3, 4 or 5) that corresponds to your opinion:

**1 = "I strongly AGREE", 2="I quite much AGREE", 3="Neutral opinion",**

**4 ="I quite much DISAGREE", 5 = "I strongly DISAGREE"**

**"When I work as a member in a group..."**



- |  |   |   |   |   |   |
|--|---|---|---|---|---|
| 1) ...I am flexible to tolerate changes.   | 1 | 2 | 3 | 4 | 5 |
| 2) ...I am actively thinking creatively.   | 1 | 2 | 3 | 4 | 5 |
| 3) ...I am active to create changes.   | 1 | 2 | 3 | 4 | 5 |
| 4) ...I am active in building and keeping power structures in the group.                         | 1 | 2 | 3 | 4 | 5 |
| 5) ...I am active to negotiate (talk) to reach agreement and commitment.                         | 1 | 2 | 3 | 4 | 5 |
| 6) ...I am actively presenting (telling) new ideas to other people.                              | 1 | 2 | 3 | 4 | 5 |
| 7) ...I make big efforts to get people working productively.                                     | 1 | 2 | 3 | 4 | 5 |
| 8) ...I actively try to make working environment productive.                                     | 1 | 2 | 3 | 4 | 5 |
| 9) ...I am actively thinking how to use time well.   | 1 | 2 | 3 | 4 | 5 |
| 10) ...I am actively planning and setting goals (targets).                                       | 1 | 2 | 3 | 4 | 5 |
| 11) ...I am actively designing and organizing things.  | 1 | 2 | 3 | 4 | 5 |
| 12) ...I am efficient in delegating (sharing) work to other people.                              | 1 | 2 | 3 | 4 | 5 |
| 13) ...I am actively thinking how people can best work together.                                 | 1 | 2 | 3 | 4 | 5 |
| 14) ...I am actively designing how work should be done.  | 1 | 2 | 3 | 4 | 5 |
| 15) ...I am actively thinking many different things that belong to current work.                 | 1 | 2 | 3 | 4 | 5 |
| 16) ...I am actively giving attention to my personal performance in group.                       | 1 | 2 | 3 | 4 | 5 |
| 17) ...I am actively giving attention to the performance of the whole group altogether.          | 1 | 2 | 3 | 4 | 5 |
| 18) ...I am actively giving attention to the performance of each individual person in the group. | 1 | 2 | 3 | 4 | 5 |
| 19) ...I am actively building (forming) groups and teams.  | 1 | 2 | 3 | 4 | 5 |
| 20) ...I actively want to make decisions so that all people in group can agree.                  | 1 | 2 | 3 | 4 | 5 |
| 21) ...I make big efforts to help people to avoid conflicts in group.                            | 1 | 2 | 3 | 4 | 5 |
| 22) ...I actively understand well myself and other people.                                       | 1 | 2 | 3 | 4 | 5 |
| 23) ...I actively want to communicate effectively.   | 1 | 2 | 3 | 4 | 5 |
| 24) ...I actively want to give guidance to other people.   | 1 | 2 | 3 | 4 | 5 |

Finnish version of questionnaire:

Etunimi: \_\_\_\_\_ Sukunimi: \_\_\_\_\_ Syntymävuosi: \_\_\_\_\_

**Kaikki nämä kysymykset käsittelevät sitä, miten sinä työskentelet ryhmän jäsenenä. Ajattele, millainen rooli/asema sinulla on, kun työskentelet ihmisten muodostamassa ryhmässä.** Esimerkiksi ajattele, millaisia ovat tuntemuksesi/käyttäytymisesi, kun sinun täytyy työskennellä opiskelijaryhmässä koulussa tai kun olet tekemässä jotain yhdessä ystäväsi kanssa.

Tässä sinulla on 24 väittämää. Vastaa, kuinka paljon olet samaa tai eri mieltä kustakin väittämästä. Valitse yksi numero (1, 2, 3, 4 tai 5), joka täsmää sinun mielipiteesi:

**1 = "Olen vahvasti SAMAA mieltä", 2 = "Olen melko paljon SAMAA mieltä", 3 = "Neutraali mielipide", 4 = "Olen melko paljon ERI mieltä", 5 = "Olen vahvasti ERI mieltä"**

**"Kun työskentelet ryhmän jäsenenä, ..."**



- |   |   |   |   |   |   |
|---|---|---|---|---|---|
| 1) ...olen joustava sietämään muutoksia.  | 1 | 2 | 3 | 4 | 5 |
| 2) ...olen ahkera ajattelemaan luovasti.  | 1 | 2 | 3 | 4 | 5 |
| 3) ...olen ahkera luomaan muutoksia.  | 1 | 2 | 3 | 4 | 5 |
| 4) ...olen ahkera rakentamaan ja ylläpitämään valtarakenteita ryhmässä.                                   | 1 | 2 | 3 | 4 | 5 |
| 5) ...olen ahkera neuvottelemaan (puhumaan), jotta yhteisymmärrys ja omistautuminen voitaisiin saavuttaa. | 1 | 2 | 3 | 4 | 5 |
| 6) ...olen ahkera esittelemään (kertomaan) uusia ajatuksia toisille ihmisille.                            | 1 | 2 | 3 | 4 | 5 |
| 7) ...teen suuria ponnisteluja, jotta saisin ihmiset työskentelemään tuottavasti.                         | 1 | 2 | 3 | 4 | 5 |
| 8) ...yritän ahkerasti tehdä työskentely-ympäristöstä tuottavan.  | 1 | 2 | 3 | 4 | 5 |
| 9) ...ajattele ahkerasti, kuinka ajan voisi käyttää hyvin.  | 1 | 2 | 3 | 4 | 5 |
| 10) ...olen ahkera laatimaan aikatauluja ja asettamaan tavoitteita (päämääriä).                           | 1 | 2 | 3 | 4 | 5 |
| 11) ...olen ahkera suunnittelemaan ja järjestämään asioita.   | 1 | 2 | 3 | 4 | 5 |
| 12) ...olen ahkera välittämään (jakamaan) työtä toisille ihmisille.                                       | 1 | 2 | 3 | 4 | 5 |
| 13) ...olen ahkera ajattelemaan, kuinka ihmiset voisivat parhaiten työskennellä yhdessä.                  | 1 | 2 | 3 | 4 | 5 |
| 14) ...olen ahkera suunnittelemaan, miten työ pitäisi tehdä.  | 1 | 2 | 3 | 4 | 5 |
| 15) ...olen ahkera ajattelemaan useita eri asioita, jotka kuuluvat senhetkiseen työhön.                   | 1 | 2 | 3 | 4 | 5 |
| 16) ...olen ahkera kiinnittämään huomiota henkilökohtaiseen suoritukseeni ryhmässä.                       | 1 | 2 | 3 | 4 | 5 |
| 17) ...olen ahkera kiinnittämään huomiota koko ryhmän suoritukseen yhdessä.                               | 1 | 2 | 3 | 4 | 5 |
| 18) ...olen ahkera kiinnittämään huomiota jokaisen yksittäisen henkilön suoritukseen ryhmässä.            | 1 | 2 | 3 | 4 | 5 |
| 19) ...olen ahkera rakentamaan (muodostamaan) ryhmiä ja joukkueita.                                       | 1 | 2 | 3 | 4 | 5 |
| 20) ...haluan ahkerasti tehdä ratkaisuja niin, että kaikki ihmiset ryhmässä voivat olla samaa mieltä.     | 1 | 2 | 3 | 4 | 5 |
| 21) ...teen suuria ponnisteluja auttaakseni ihmisiä välttämään ristiriitoja ryhmässä.                     | 1 | 2 | 3 | 4 | 5 |
| 22) ...olen ahkera ymmärtämään hyvin itseäni ja muita ihmisiä.  | 1 | 2 | 3 | 4 | 5 |
| 23) ...haluan ahkerasti viestiä tavalla, joka vaikuttaa.  | 1 | 2 | 3 | 4 | 5 |
| 24) ...haluan ahkerasti antaa opastusta toisille ihmisille.   | 1 | 2 | 3 | 4 | 5 |

(empty on purpose)

## Appendix U

This listing shows for 102 core concepts the highest-ranking hyperlinked concepts based on statistical feature of corresponding Wikipedia articles in respect to hierarchy of hyperlinks (as explained in Subchapter 6.3). Value of “position among hyperlinks departing from Wikipedia article of start concept” indicates for the highest-ranking start concept or end concept what is its ranking position among all start concepts (in natural order of increasing distance from the beginning of the article) of those hyperlinks that arrive to current end concept (N/A = not available).

Observed concept	Ranking based on hierarchy of hyperlinks for observed concept		Observed concept	Ranking based on hierarchy of hyperlinks for observed concept
Concept	End concepts for hyperlinks departing from observed concept (position among hyperlinks)		Concept	Start concepts for hyperlinks arriving to observed concept (position among hyperlinks)
Adolescence	Childhood (1)		Adolescence	Childhood (1)
Adolescence	Child (2)		Adolescence	Child (2)
Adolescence	Television (3)		Adolescence	Education (5)
Adolescence	Sport (4)		Adolescence	Infant (6)
Adolescence	Education (5)		Adolescence	Old_age (7)
Adolescence	Infant (6)		Adolescence	Human (N/A)
Adolescence	Old_age (7)		Adolescence	Dog (N/A)
Animal	Organism (1)		Adolescence	Friendship (N/A)
Animal	Plant (2)		Animal	Plant (2)
Animal	Human (3)		Animal	Human (3)
Animal	Water (4)		Animal	Nature (7)
Animal	Oxygen (5)		Animal	Atmosphere_of_Earth (9)
Animal	Evolution (6)		Animal	Biology (10)
Animal	Nature (7)		Animal	Food (N/A)
Animal	Time (8)		Animal	Birth (N/A)
Animal	Atmosphere_of_Earth (9)		Animal	Eating (N/A)
Animal	Biology (10)		Animal	Friendship (N/A)
Atmosphere_of_Earth	Oxygen (1)		Animal	Pet (N/A)
Atmosphere_of_Earth	Organism (2)		Atmosphere_of_Earth	Nature (5)
Atmosphere_of_Earth	Evolution (3)		Atmosphere_of_Earth	Biology (7)
Atmosphere_of_Earth	Automobile (4)		Atmosphere_of_Earth	Plant (8)
Atmosphere_of_Earth	Nature (5)		Atmosphere_of_Earth	Animal (9)
Atmosphere_of_Earth	Time (6)		Automobile	Oxygen (1)
Atmosphere_of_Earth	Biology (7)		Automobile	City (N/A)
Atmosphere_of_Earth	Plant (8)		Automobile	Atmosphere_of_Earth (N/A)
Atmosphere_of_Earth	Animal (9)		Bed	Dream (3)
Automobile	Oxygen (1)		Biology	Evolution (1)
Bed	Infant (1)		Biology	Organism (2)
Bed	Hospital (2)		Biology	Health (3)
Bed	Dream (3)		Biology	Plant (5)
Biology	Evolution (1)		Biology	Animal (6)
Biology	Organism (2)		Biology	Nature (7)
Biology	Health (3)		Biology	Atmosphere_of_Earth (9)
Biology	Human (4)		Biology	Education (N/A)
Biology	Plant (5)		Biology	Love (N/A)
Biology	Animal (6)		Biology	Old_age (N/A)
Biology	Nature (7)		Biology	Water (N/A)
Biology	Time (8)		Birth	Parent (N/A)
Biology	Atmosphere_of_Earth (9)		Book	Paper (1)
Birth	Animal (1)		Book	Hobby (N/A)
Birth	Mother (2)		Bread	Food (4)
Birth	Sun (3)		Cat	Dog (2)
Birth	Death (4)		Cat	Pet (3)
Book	Paper (1)		Child	Parent (1)
Book	Music (2)		Child	Childhood (2)
Bread	Water (1)		Child	Infant (3)
Bread	Paper (2)		Child	Old_age (4)
Bread	Money (3)		Child	Adolescence (5)
Bread	Food (4)		Child	Family (8)
Cat	Human (1)		Child	Education (N/A)
Cat	Dog (2)		Childhood	Child (1)
Cat	Pet (3)		Childhood	Infant (2)
Child	Parent (1)		Childhood	Old_age (3)
Child	Childhood (2)		Childhood	Adolescence (4)



Child	Infant (3)		Childhood	Human (N/A)
Child	Old_age (4)		Childhood	Education (N/A)
Child	Adolescence (5)		City	Human (N/A)
Child	Sibling (6)		Clock	Time (1)
Child	Marriage (7)		Clock	Future (3)
Child	Family (8)		Clothing	Paper (4)
Child	Leisure (9)		Clothing	Human (N/A)
Childhood	Child (1)		Clothing	Shoe (N/A)
Childhood	Infant (2)		Computer	Clock (N/A)
Childhood	Old_age (3)		Computer	Food (N/A)
Childhood	Adolescence (4)		Death	Disease (2)
City	Automobile (1)		Death	Diet_(nutrition) (6)
City	Rain (2)		Death	Future (N/A)
City	Religion (3)		Death	Food (N/A)
Clock	Time (1)		Death	Birth (N/A)
Clock	Computer (2)		Death	Marriage (N/A)
Clock	Future (3)		Death	Old_age (N/A)
Clothing	Religion (1)		Diet_(nutrition)	Health (2)
Clothing	Television (2)		Diet_(nutrition)	Death (3)
Clothing	Marriage (3)		Diet_(nutrition)	Food (N/A)
Clothing	Paper (4)		Diet_(nutrition)	Human (N/A)
Computer	Television (1)		Diet_(nutrition)	Physical_fitness (N/A)
Computer	Telephone (2)		Disease	Death (1)
Death	Organism (1)		Disease	Health (N/A)
Death	Disease (2)		Disease	Hospital (N/A)
Death	Evolution (3)		Disease	War (N/A)
Death	Heart (4)		Disease	Oxygen (N/A)
Death	Oxygen (5)		Dog	Pet (1)
Death	Diet_(nutrition) (6)		Dog	Cat (3)
Death	Physical_fitness (7)		Dream	Bed (2)
Death	Human (8)		Eating	Food (1)
Death	War (9)		Eating	Hobby (N/A)
Diet_(nutrition)	Organism (1)		Eating	Leisure (N/A)
Diet_(nutrition)	Health (2)		Education	Learning (1)
Diet_(nutrition)	Death (3)		Education	Adolescence (4)
Diet_(nutrition)	Religion (4)		Education	School (6)
Disease	Death (1)		Education	Teacher (9)
Dog	Pet (1)		Education	Leisure (13)
Dog	Adolescence (2)		Education	Time (N/A)
Dog	Cat (3)		Education	Test_(assessment) (N/A)
Dream	God (1)		Education	Hobby (N/A)
Dream	Bed (2)		Education	Peace (N/A)
Eating	Food (1)		Emotion	Sadness (3)
Eating	Animal (2)		Emotion	Happiness (5)
Eating	Organism (3)		Emotion	Love (6)
Eating	Plant (4)		Emotion	Hatred (7)
Eating	Human (5)		Emotion	Pleasure (8)
Education	Learning (1)		Emotion	Human (N/A)
Education	Philosophy (2)		Emotion	Marriage (N/A)
Education	Childhood (3)		Evolution	Biology (1)
Education	Adolescence (4)		Evolution	Organism (2)
Education	Child (5)		Evolution	Human (N/A)
Education	School (6)		Evolution	Nature (N/A)
Education	Human (7)		Evolution	Animal (N/A)
Education	Biology (8)		Evolution	Flower (N/A)
Education	Teacher (9)		Evolution	Future (N/A)
Education	Sibling (10)		Evolution	Religion (N/A)
Education	Marriage (11)		Evolution	Atmosphere_of_Earth (N/A)
Education	Family (12)		Evolution	Death (N/A)
Education	Leisure (13)		Evolution	Emotion (N/A)
Emotion	Experience (1)		Experience	Emotion (N/A)
Emotion	Evolution (2)		Experience	Learning (N/A)
Emotion	Sadness (3)		Experience	World (N/A)
Emotion	Joy (4)		Family	Marriage (1)
Emotion	Happiness (5)		Family	Mother (2)
Emotion	Love (6)		Family	Father (3)
Emotion	Hatred (7)		Family	Sibling (4)
Emotion	Pleasure (8)		Family	Child (5)
Evolution	Biology (1)		Family	Leisure (6)
Evolution	Organism (2)		Family	Human (N/A)
Evolution	Oxygen (3)		Family	Education (N/A)
Evolution	Plant (4)		Family	Love (N/A)
Evolution	Philosophy (5)		Family	Home (N/A)
Experience	Time (1)		Family	House (N/A)
Experience	Philosophy (2)		Family	Party (N/A)

Family	Marriage (1)		Father	Parent (1)
Family	Mother (2)		Father	Mother (2)
Family	Father (3)		Father	Family (4)
Family	Sibling (4)		Father	Sibling (5)
Family	Child (5)		Father	God (N/A)
Family	Leisure (6)		Flower	Plant (2)
Father	Parent (1)		Flower	Forest (N/A)
Father	Mother (2)		Food	Eating (1)
Father	Marriage (3)		Food	Bread (4)
Father	Family (4)		Food	Health (10)
Father	Sibling (5)		Food	Hobby (N/A)
Father	Love (6)		Food	Money (N/A)
Flower	Evolution (1)		Forest	Tree (1)
Flower	Plant (2)		Forest	Plant (4)
Food	Eating (1)		Friendship	Love (3)
Food	Animal (2)		Future	Time (1)
Food	Plant (3)		Future	Clock (7)
Food	Bread (4)		Goal	Purpose (1)
Food	Water (5)		Goal	Teacher (N/A)
Food	War (6)		God	Religion (1)
Food	School (7)		God	Philosophy (2)
Food	Computer (8)		God	Time (N/A)
Food	Diet (nutrition) (9)		God	Human (N/A)
Food	Health (10)		God	Dream (N/A)
Food	Death (11)		God	Marriage (N/A)
Food	Human (12)		God	Purpose (N/A)
Forest	Tree (1)		Happiness	Emotion (1)
Forest	Flower (2)		Happiness	Joy (2)
Forest	Rain (3)		Happiness	Human (N/A)
Forest	Plant (4)		Happiness	Pleasure (N/A)
Friendship	Philosophy (1)		Happiness	Purpose (N/A)
Friendship	Adolescence (2)		Happiness	Hatred (N/A)
Friendship	Love (3)		Happiness	Love (N/A)
Friendship	Animal (4)		Happiness	Sadness (N/A)
Future	Time (1)		Hatred	Emotion (1)
Future	Philosophy (2)		Hatred	Pleasure (2)
Future	Human (3)		Hatred	Love (4)
Future	Evolution (4)		Hatred	Sadness (5)
Future	Religion (5)		Hatred	War (N/A)
Future	Death (6)		Health	Physical_fitness (2)
Future	Clock (7)		Health	Diet (nutrition) (3)
Goal	Purpose (1)		Health	Food (4)
God	Religion (1)		Health	Biology (5)
God	Philosophy (2)		Health	Human (N/A)
God	Father (3)		Health	Infant (N/A)
God	Nature (4)		Health	Hospital (N/A)
Ground	Philosophy (1)		Heart	Oxygen (N/A)
Happiness	Emotion (1)		Heart	Death (N/A)
Happiness	Joy (2)		Heart	Organism (N/A)
Hatred	Emotion (1)		Home	House (2)
Hatred	Pleasure (2)		Hospital	Bed (N/A)
Hatred	Happiness (3)		Hospital	Infant (N/A)
Hatred	Love (4)		House	Home (2)
Hatred	Sadness (5)		House	Human (N/A)
Health	Disease (1)		House	Hobby (N/A)
Health	Physical_fitness (2)		Human	Animal (9)
Health	Diet (nutrition) (3)		Human	Religion (12)
Health	Food (4)		Human	World (N/A)
Health	Biology (5)		Human	People (N/A)
Hobby	Leisure (1)		Human	Nature (N/A)
Hobby	Sport (2)		Human	Food (N/A)
Hobby	Book (3)		Human	Biology (N/A)
Hobby	Education (4)		Human	Death (N/A)
Hobby	Food (5)		Human	Water (N/A)
Hobby	Eating (6)		Human	Eating (N/A)
Hobby	Plant (7)		Human	Future (N/A)
Hobby	House (8)		Human	Parent (N/A)
Home	Family (1)		Human	Mother (N/A)
Home	House (2)		Human	Education (N/A)
Home	Love (3)		Human	Cat (N/A)
Hospital	Disease (1)		Infant	Child (1)
Hospital	Health (2)		Infant	Old_age (4)
House	Family (1)		Infant	Childhood (5)
House	Home (2)		Infant	Adolescence (6)
House	Television (3)		Infant	Bed (N/A)

House	Pet (4)	Joy	Happiness (1)
Human	City (1)	Joy	Emotion (N/A)
Human	Diet (nutrition) (2)	Learning	Education (2)
Human	Childhood (3)	Learning	Teacher (N/A)
Human	Adolescence (4)	Leisure	Education (4)
Human	Old_age (5)	Leisure	Marriage (7)
Human	Emotion (6)	Leisure	Family (8)
Human	Love (7)	Leisure	Hobby (N/A)
Human	Evolution (8)	Leisure	Child (N/A)
Human	Animal (9)	Leisure	Mother (N/A)
Human	Family (10)	Light	Time (1)
Human	Philosophy (11)	Light	Plant (N/A)
Human	Religion (12)	Love	Emotion (2)
Human	Clothing (13)	Love	Pleasure (3)
Human	House (14)	Love	Hatred (5)
Human	Oxygen (15)	Love	Sadness (6)
Human	Happiness (16)	Love	Friendship (7)
Human	Health (17)	Love	Marriage (11)
Human	War (18)	Love	Human (N/A)
Human	God (19)	Love	Mother (N/A)
Human	Music (20)	Love	Father (N/A)
Infant	Child (1)	Love	Home (N/A)
Infant	Hospital (2)	Love	Sibling (N/A)
Infant	Health (3)	Marriage	Family (2)
Infant	Old_age (4)	Marriage	Love (3)
Infant	Childhood (5)	Marriage	Sibling (7)
Infant	Adolescence (6)	Marriage	Leisure (8)
Joy	Happiness (1)	Marriage	Child (N/A)
Learning	Experience (1)	Marriage	Education (N/A)
Learning	Education (2)	Marriage	Mother (N/A)
Learning	Time (3)	Marriage	Father (N/A)
Learning	Physical_fitness (4)	Marriage	Clothing (N/A)
Leisure	Time (1)	Money	Bread (N/A)
Leisure	Work (2)	Mother	Parent (1)
Leisure	Eating (3)	Mother	Father (3)
Leisure	Education (4)	Mother	Family (4)
Leisure	Television (5)	Mother	Sibling (5)
Leisure	Sibling (6)	Mother	Birth (N/A)
Leisure	Marriage (7)	Music	Human (N/A)
Leisure	Family (8)	Music	Book (N/A)
Light	Time (1)	Music	Pleasure (N/A)
Light	Sun (2)	Music	Party (N/A)
Light	Television (3)	Music	Philosophy (N/A)
Love	Family (1)	Music	Test (assessment) (N/A)
Love	Emotion (2)	Nature	Plant (5)
Love	Pleasure (3)	Nature	Animal (6)
Love	Happiness (4)	Nature	Biology (8)
Love	Hatred (5)	Nature	Atmosphere_of_Earth (10)
Love	Sadness (6)	Nature	God (N/A)
Love	Friendship (7)	Old_age	Infant (3)
Love	Philosophy (8)	Old_age	Child (4)
Love	Religion (9)	Old_age	Childhood (5)
Love	Biology (10)	Old_age	Adolescence (6)
Love	Marriage (11)	Old_age	Human (N/A)
Marriage	Religion (1)	Organism	Biology (1)
Marriage	Family (2)	Organism	Evolution (2)
Marriage	Love (3)	Organism	Plant (4)
Marriage	God (4)	Organism	Animal (N/A)
Marriage	Emotion (5)	Organism	Atmosphere_of_Earth (N/A)
Marriage	Death (6)	Organism	Nature (N/A)
Marriage	Sibling (7)	Organism	Death (N/A)
Marriage	Leisure (8)	Organism	Diet (nutrition) (N/A)
Money	Water (1)	Organism	Eating (N/A)
Money	Food (2)	Organism	Water (N/A)
Mother	Parent (1)	Oxygen	Plant (1)
Mother	Human (2)	Oxygen	Automobile (2)
Mother	Father (3)	Oxygen	Sun (3)
Mother	Family (4)	Oxygen	Water (9)
Mother	Sibling (5)	Oxygen	Atmosphere_of_Earth (N/A)
Mother	Marriage (6)	Oxygen	Nature (N/A)
Mother	Love (7)	Oxygen	Animal (N/A)
Mother	Leisure (8)	Oxygen	Evolution (N/A)
Music	Religion (1)	Oxygen	Human (N/A)
Music	Time (2)	Oxygen	Death (N/A)
Music	Television (3)	Oxygen	Tree (N/A)

Nature	Human (1)		Paper	Book (1)
Nature	Sun (2)		Paper	Clothing (2)
Nature	Oxygen (3)		Paper	Pen (N/A)
Nature	Organism (4)		Paper	Bread (N/A)
Nature	Plant (5)		Parent	Father (1)
Nature	Animal (6)		Parent	Mother (2)
Nature	Evolution (7)		Parent	Child (5)
Nature	Biology (8)		Parent	Sibling (6)
Nature	Time (9)		Peace	War (2)
Nature	Atmosphere_of_Earth (10)		People	Pet (N/A)
Old_age	Biology (1)		Pet	Dog (2)
Old_age	Death (2)		Pet	Cat (3)
Old_age	Infant (3)		Pet	House (N/A)
Old_age	Child (4)		Philosophy	Religion (1)
Old_age	Childhood (5)		Philosophy	God (2)
Old_age	Adolescence (6)		Philosophy	Human (N/A)
Organism	Biology (1)		Philosophy	Experience (N/A)
Organism	Evolution (2)		Philosophy	Time (N/A)
Organism	Heart (3)		Philosophy	People (N/A)
Organism	Plant (4)		Philosophy	Education (N/A)
Oxygen	Plant (1)		Philosophy	Future (N/A)
Oxygen	Automobile (2)		Philosophy	Love (N/A)
Oxygen	Sun (3)		Philosophy	Friendship (N/A)
Oxygen	Philosophy (4)		Philosophy	Ground (N/A)
Oxygen	Heart (5)		Philosophy	Pleasure (N/A)
Oxygen	Disease (6)		Philosophy	Purpose (N/A)
Oxygen	Sport (7)		Philosophy	Evolution (N/A)
Oxygen	Rain (8)		Philosophy	Oxygen (N/A)
Oxygen	Water (9)		Philosophy	Test_(assessment) (N/A)
Paper	Book (1)		Physical_fitness	Health (1)
Paper	Clothing (2)		Physical_fitness	Death (N/A)
Parent	Father (1)		Physical_fitness	Learning (N/A)
Parent	Mother (2)		Plant	Organism (1)
Parent	Birth (3)		Plant	Animal (3)
Parent	Human (4)		Plant	Water (5)
Parent	Child (5)		Plant	Oxygen (6)
Parent	Sibling (6)		Plant	Forest (7)
Party	Music (1)		Plant	Flower (8)
Party	Television (2)		Plant	Nature (9)
Party	Family (3)		Plant	Atmosphere_of_Earth (11)
Peace	Education (1)		Plant	Biology (12)
Peace	War (2)		Plant	Food (N/A)
Pen	Paper (1)		Plant	Evolution (N/A)
People	Human (1)		Plant	Eating (N/A)
People	Philosophy (2)		Plant	Hobby (N/A)
People	Religion (3)		Plant	Rain (N/A)
People	Purpose (4)		Plant	Summer (N/A)
Pet	Animal (1)		Plant	Sun (N/A)
Pet	Dog (2)		Pleasure	Emotion (1)
Pet	Cat (3)		Pleasure	Hatred (3)
Pet	People (4)		Pleasure	Love (4)
Philosophy	Religion (1)		Pleasure	Sadness (5)
Philosophy	God (2)		Purpose	Goal (1)
Philosophy	Music (3)		Purpose	People (N/A)
Physical_fitness	Health (1)		Rain	Water (1)
Physical_fitness	Diet_(nutrition) (2)		Rain	City (N/A)
Plant	Organism (1)		Rain	Forest (N/A)
Plant	Tree (2)		Rain	Oxygen (N/A)
Plant	Animal (3)		Religion	Philosophy (1)
Plant	Light (4)		Religion	God (2)
Plant	Water (5)		Religion	Human (5)
Plant	Oxygen (6)		Religion	People (N/A)
Plant	Forest (7)		Religion	War (N/A)
Plant	Flower (8)		Religion	Future (N/A)
Plant	Nature (9)		Religion	Time (N/A)
Plant	Time (10)		Religion	City (N/A)
Plant	Atmosphere_of_Earth (11)		Religion	Clothing (N/A)
Plant	Biology (12)		Religion	Diet_(nutrition) (N/A)
Pleasure	Emotion (1)		Religion	Love (N/A)
Pleasure	Happiness (2)		Religion	Marriage (N/A)
Pleasure	Hatred (3)		Religion	Music (N/A)
Pleasure	Love (4)		Sadness	Emotion (1)
Pleasure	Sadness (5)		Sadness	Pleasure (2)
Pleasure	Music (6)		Sadness	Hatred (4)
Pleasure	Philosophy (7)		Sadness	Love (5)



Purpose	Goal (1)		Sadness	Sorrow (6)
Purpose	Philosophy (2)		School	Teacher (1)
Purpose	God (3)		School	Education (2)
Purpose	Happiness (4)		School	Food (N/A)
Rain	Water (1)		Sea	Water (1)
Rain	Plant (2)		Sibling	Parent (1)
Rain	Sun (3)		Sibling	Family (3)
Religion	Philosophy (1)		Sibling	Mother (4)
Religion	God (2)		Sibling	Father (5)
Religion	Sun (3)		Sibling	Marriage (6)
Religion	Evolution (4)		Sibling	Child (N/A)
Religion	Human (5)		Sibling	Education (N/A)
Sadness	Emotion (1)		Sibling	Leisure (N/A)
Sadness	Pleasure (2)		Sorrow	Sadness (1)
Sadness	Happiness (3)		Sport	Adolescence (N/A)
Sadness	Hatred (4)		Sport	Hobby (N/A)
Sadness	Love (5)		Sport	Oxygen (N/A)
Sadness	Sorrow (6)		Sun	Oxygen (1)
School	Teacher (1)		Sun	Light (N/A)
School	Education (2)		Sun	Water (N/A)
Sea	Water (1)		Sun	Nature (N/A)
Shoe	Clothing (1)		Sun	Birth (N/A)
Sibling	Parent (1)		Sun	Rain (N/A)
Sibling	Love (2)		Sun	Religion (N/A)
Sibling	Family (3)		Teacher	Education (1)
Sibling	Mother (4)		Teacher	School (2)
Sibling	Father (5)		Teacher	Test_(assessment) (N/A)
Sibling	Marriage (6)		Telephone	Computer (N/A)
Sorrow	Sadness (1)		Television	Time (N/A)
Sport	Television (1)		Television	Music (N/A)
Summer	Plant (1)		Television	Adolescence (N/A)
Sun	Oxygen (1)		Television	Clothing (N/A)
Sun	Plant (2)		Television	Computer (N/A)
Teacher	Education (1)		Television	House (N/A)
Teacher	School (2)		Television	Leisure (N/A)
Teacher	Goal (3)		Television	Light (N/A)
Teacher	Learning (4)		Television	Party (N/A)
Test_(assessment)	Education (1)		Television	Sport (N/A)
Test_(assessment)	Philosophy (2)		Time	Clock (3)
Test_(assessment)	Music (3)		Time	Future (5)
Test_(assessment)	Teacher (4)		Time	Light (6)
Time	Religion (1)		Time	Experience (N/A)
Time	Philosophy (2)		Time	Nature (N/A)
Time	Clock (3)		Time	Plant (N/A)
Time	God (4)		Time	Water (N/A)
Time	Future (5)		Time	Animal (N/A)
Time	Light (6)		Time	Atmosphere_of_Earth (N/A)
Time	Education (7)		Time	Biology (N/A)
Time	Television (8)		Time	Learning (N/A)
Tree	Oxygen (1)		Time	Leisure (N/A)
Tree	Forest (2)		Time	Music (N/A)
Tree	Water (3)		Travel	Water (N/A)
War	Hatred (1)		Tree	Forest (2)
War	Religion (2)		Tree	Plant (N/A)
War	Disease (3)		War	Peace (4)
War	Peace (4)		War	Human (N/A)
Water	Sea (1)		War	Death (N/A)
Water	Human (2)		War	Food (N/A)
Water	Rain (3)		Water	Sea (1)
Water	Oxygen (4)		Water	Rain (3)
Water	Organism (5)		Water	Oxygen (4)
Water	Sun (6)		Water	Plant (7)
Water	Plant (7)		Water	Food (N/A)
Water	Travel (8)		Water	Animal (N/A)
Water	Biology (9)		Water	Bread (N/A)
Water	Time (10)		Water	Money (N/A)
World	Human (1)		Water	Tree (N/A)
World	Experience (2)		Work	Leisure (N/A)

## Appendix V

This listing shows the highest-ranking hyperlinked concepts based on statistical feature of corresponding Wikipedia articles in respect to repetition of hyperlink terms (as explained in Subchapter 6.3).

Observed concept	Ranking based on repetition of hyperlink terms for observed concept		Observed concept	Ranking based on repetition of hyperlink terms for observed concept
Concept	End concepts for hyperlinks departing from observed concept (repetitions of hyperlink terms)		Concept	Start concepts for hyperlinks arriving to observed concept (repetitions of hyperlink terms)
Adolescence	Child (14)		Adolescence	Child (14)
Adolescence	Old_age (5)		Adolescence	Human (7)
Adolescence	Education (4)		Adolescence	Old_age (5)
Adolescence	Childhood (3)		Adolescence	Education (4)
Adolescence	Sport (1)		Adolescence	Childhood (3)
Adolescence	Television (1)		Adolescence	Dog (0)
Adolescence	Infant (0)		Adolescence	Friendship (0)
Animal	Plant (10)		Adolescence	Infant (0)
Animal	Evolution (8)		Animal	Plant (10)
Animal	Organism (8)		Animal	Biology (5)
Animal	Biology (5)		Animal	Food (2)
Animal	Water (3)		Animal	Human (2)
Animal	Human (2)		Animal	Atmosphere_of_Earth (0)
Animal	Time (2)		Animal	Birth (0)
Animal	Oxygen (1)		Animal	Eating (0)
Animal	Atmosphere_of_Earth (0)		Animal	Friendship (0)
Animal	Nature (0)		Animal	Nature (0)
Atmosphere_of_Earth	Oxygen (17)		Animal	Pet (0)
Atmosphere_of_Earth	Plant (4)		Atmosphere_of_Earth	Plant (4)
Atmosphere_of_Earth	Time (4)		Atmosphere_of_Earth	Animal (2)
Atmosphere_of_Earth	Evolution (3)		Atmosphere_of_Earth	Biology (0)
Atmosphere_of_Earth	Animal (2)		Atmosphere_of_Earth	Nature (0)
Atmosphere_of_Earth	Automobile (1)		Automobile	City (4)
Atmosphere_of_Earth	Organism (1)		Automobile	Oxygen (2)
Atmosphere_of_Earth	Biology (0)		Automobile	Atmosphere_of_Earth (0)
Atmosphere_of_Earth	Nature (0)		Bed	Dream (0)
Automobile	Oxygen (2)		Biology	Organism (57)
Bed	Hospital (4)		Biology	Evolution (24)
Bed	Infant (2)		Biology	Animal (14)
Bed	Dream (0)		Biology	Plant (9)
Biology	Organism (57)		Biology	Atmosphere_of_Earth (2)
Biology	Evolution (24)		Biology	Health (1)
Biology	Animal (14)		Biology	Nature (1)
Biology	Plant (9)		Biology	Education (0)
Biology	Human (8)		Biology	Love (0)
Biology	Time (3)		Biology	Old_age (0)
Biology	Atmosphere_of_Earth (2)		Biology	Water (0)
Biology	Health (1)		Birth	Parent (1)
Biology	Nature (1)		Book	Paper (31)
Birth	Mother (5)		Book	Hobby (0)
Birth	Death (2)		Bread	Food (17)
Birth	Animal (1)		Cat	Pet (22)
Birth	Sun (1)		Cat	Dog (20)
Book	Paper (31)		Child	Childhood (3)
Book	Music (0)		Child	Parent (2)
Bread	Water (20)		Child	Old_age (1)
Bread	Food (17)		Child	Adolescence (0)
Bread	Money (2)		Child	Education (0)
Bread	Paper (1)		Child	Family (0)
Cat	Human (62)		Child	Infant (0)
Cat	Pet (22)		Childhood	Child (26)
Cat	Dog (20)		Childhood	Human (1)
Child	Childhood (3)		Childhood	Adolescence (0)
Child	Parent (2)		Childhood	Education (0)
Child	Old_age (1)		Childhood	Infant (0)
Child	Adolescence (0)		Childhood	Old_age (0)
Child	Family (0)		City	Human (1)
Child	Infant (0)		Clock	Time (79)

Child	Leisure (0)		Clock	Future (0)
Child	Marriage (0)		Clothing	Human (10)
Child	Sibling (0)		Clothing	Paper (2)
Childhood	Child (26)		Clothing	Shoe (0)
Childhood	Adolescence (0)		Computer	Clock (0)
Childhood	Infant (0)		Computer	Food (0)
Childhood	Old_age (0)		Death	Disease (14)
City	Automobile (2)		Death	Future (5)
City	Religion (1)		Death	Diet_(nutrition) (2)
City	Rain (0)		Death	Food (2)
Clock	Time (79)		Death	Birth (0)
Clock	Computer (8)		Death	Marriage (0)
Clock	Future (0)		Death	Old_age (0)
Clothing	Paper (2)		Diet_(nutrition)	Food (17)
Clothing	Religion (2)		Diet_(nutrition)	Health (4)
Clothing	Television (1)		Diet_(nutrition)	Human (1)
Clothing	Marriage (0)		Diet_(nutrition)	Death (0)
Computer	Telephone (1)		Diet_(nutrition)	Physical_fitness (0)
Computer	Television (1)		Disease	Health (8)
Death	Disease (14)		Disease	Death (1)
Death	Human (13)		Disease	Hospital (1)
Death	Organism (13)		Disease	War (1)
Death	Evolution (7)		Disease	Oxygen (0)
Death	Oxygen (3)		Dog	Pet (19)
Death	Diet_(nutrition) (2)		Dog	Cat (9)
Death	Heart (2)		Dream	Bed (1)
Death	Physical_fitness (1)		Eating	Food (14)
Death	War (0)		Eating	Hobby (0)
Diet_(nutrition)	Health (4)		Eating	Leisure (0)
Diet_(nutrition)	Religion (2)		Education	Learning (48)
Diet_(nutrition)	Organism (1)		Education	School (34)
Diet_(nutrition)	Death (0)		Education	Teacher (8)
Disease	Death (1)		Education	Time (4)
Dog	Pet (19)		Education	Adolescence (2)
Dog	Cat (9)		Education	Leisure (1)
Dog	Adolescence (1)		Education	Test_(assessment) (1)
Dream	Bed (1)		Education	Hobby (0)
Dream	God (1)		Education	Peace (0)
Eating	Food (14)		Emotion	Human (15)
Eating	Animal (4)		Emotion	Sadness (9)
Eating	Human (2)		Emotion	Happiness (7)
Eating	Organism (1)		Emotion	Love (6)
Eating	Plant (1)		Emotion	Hatred (1)
Education	Learning (48)		Emotion	Marriage (1)
Education	School (34)		Emotion	Pleasure (1)
Education	Child (13)		Evolution	Organism (75)
Education	Philosophy (10)		Evolution	Human (28)
Education	Human (9)		Evolution	Biology (22)
Education	Teacher (8)		Evolution	Nature (20)
Education	Family (6)		Evolution	Animal (19)
Education	Adolescence (2)		Evolution	Flower (3)
Education	Childhood (2)		Evolution	Future (3)
Education	Biology (1)		Evolution	Religion (3)
Education	Leisure (1)		Evolution	Atmosphere_of_Earth (1)
Education	Marriage (1)		Evolution	Death (1)
Education	Sibling (0)		Evolution	Emotion (0)
Emotion	Experience (12)		Experience	Emotion (1)
Emotion	Sadness (9)		Experience	Learning (0)
Emotion	Happiness (7)		Experience	World (0)
Emotion	Love (6)		Family	Child (51)
Emotion	Hatred (1)		Family	Mother (13)
Emotion	Joy (1)		Family	Marriage (12)
Emotion	Pleasure (1)		Family	Father (8)
Emotion	Evolution (0)		Family	Human (5)
Evolution	Organism (75)		Family	Sibling (4)
Evolution	Plant (32)		Family	Education (3)
Evolution	Biology (22)		Family	Love (2)
Evolution	Philosophy (3)		Family	Home (1)
Evolution	Oxygen (1)		Family	Leisure (1)
Experience	Philosophy (2)		Family	House (0)
Experience	Time (1)		Family	Party (0)
Family	Child (51)		Father	Family (12)
Family	Mother (13)		Father	Mother (8)
Family	Marriage (12)		Father	Parent (4)
Family	Father (8)		Father	Sibling (1)

Family	Sibling (4)		Father	God (0)
Family	Leisure (1)		Flower	Plant (63)
Father	Family (12)		Flower	Forest (0)
Father	Mother (8)		Food	Health (19)
Father	Parent (4)		Food	Eating (3)
Father	Marriage (2)		Food	Bread (1)
Father	Sibling (1)		Food	Hobby (0)
Father	Love (0)		Food	Money (0)
Flower	Plant (63)		Forest	Tree (33)
Flower	Evolution (11)		Forest	Plant (6)
Food	Animal (30)		Friendship	Love (14)
Food	Health (19)		Future	Time (10)
Food	Diet (nutrition) (16)		Future	Clock (0)
Food	Plant (14)		Goal	Purpose (1)
Food	Human (13)		Goal	Teacher (0)
Food	Water (5)		God	Religion (20)
Food	Eating (3)		God	Philosophy (9)
Food	War (2)		God	Time (4)
Food	Bread (1)		God	Human (2)
Food	Computer (1)		God	Dream (0)
Food	Death (1)		God	Marriage (0)
Food	School (1)		God	Purpose (0)
Forest	Tree (33)		Happiness	Emotion (8)
Forest	Plant (6)		Happiness	Human (5)
Forest	Rain (5)		Happiness	Pleasure (4)
Forest	Flower (0)		Happiness	Purpose (2)
Friendship	Love (14)		Happiness	Joy (1)
Friendship	Animal (7)		Happiness	Hatred (0)
Friendship	Philosophy (2)		Happiness	Love (0)
Friendship	Adolescence (0)		Happiness	Sadness (0)
Future	Time (10)		Hatred	Emotion (0)
Future	Human (4)		Hatred	Love (0)
Future	Evolution (2)		Hatred	Pleasure (0)
Future	Religion (2)		Hatred	Sadness (0)
Future	Death (1)		Hatred	War (0)
Future	Philosophy (1)		Health	Physical fitness (10)
Future	Clock (0)		Health	Food (9)
Goal	Purpose (1)		Health	Human (8)
God	Religion (20)		Health	Diet (nutrition) (6)
God	Nature (9)		Health	Biology (2)
God	Philosophy (9)		Health	Infant (1)
God	Father (1)		Health	Hospital (0)
Ground	Philosophy (1)		Heart	Oxygen (2)
Happiness	Emotion (8)		Heart	Death (1)
Happiness	Joy (1)		Heart	Organism (0)
Hatred	Emotion (0)		Home	House (1)
Hatred	Happiness (0)		Hospital	Bed (3)
Hatred	Love (0)		Hospital	Infant (0)
Hatred	Pleasure (0)		House	Home (12)
Hatred	Sadness (0)		House	Human (8)
Health	Disease (15)		House	Hobby (0)
Health	Physical fitness (10)		Human	World (54)
Health	Food (9)		Human	Religion (46)
Health	Diet (nutrition) (6)		Human	People (38)
Health	Biology (2)		Human	Nature (35)
Hobby	Sport (6)		Human	Food (30)
Hobby	Education (4)		Human	Animal (29)
Hobby	Food (3)		Human	Biology (20)
Hobby	Plant (3)		Human	Death (11)
Hobby	Book (1)		Human	Water (6)
Hobby	Eating (1)		Human	Eating (5)
Hobby	House (0)		Human	Future (4)
Hobby	Leisure (0)		Human	Parent (4)
Home	Family (1)		Human	Mother (3)
Home	House (1)		Human	Education (1)
Home	Love (1)		Human	Cat (0)
Hospital	Health (15)		Infant	Child (18)
Hospital	Disease (2)		Infant	Bed (1)
House	Home (12)		Infant	Childhood (1)
House	Family (7)		Infant	Old age (1)
House	Pet (1)		Infant	Adolescence (0)
House	Television (1)		Joy	Emotion (1)
Human	Evolution (72)		Joy	Happiness (1)
Human	Religion (46)		Learning	Education (5)
Human	Emotion (35)		Learning	Teacher (1)

Human	War (35)		Leisure	Education (3)
Human	Animal (29)		Leisure	Family (2)
Human	Diet (nutrition) (29)		Leisure	Hobby (2)
Human	Philosophy (28)		Leisure	Child (1)
Human	Music (22)		Leisure	Marriage (1)
Human	Health (15)		Leisure	Mother (1)
Human	Family (12)		Light	Time (11)
Human	Old_age (11)		Light	Plant (0)
Human	Love (10)		Love	Human (13)
Human	House (9)		Love	Friendship (8)
Human	City (8)		Love	Emotion (4)
Human	Childhood (5)		Love	Mother (4)
Human	God (5)		Love	Pleasure (3)
Human	Adolescence (4)		Love	Hatred (1)
Human	Clothing (4)		Love	Marriage (1)
Human	Happiness (4)		Love	Sadness (1)
Human	Oxygen (1)		Love	Father (0)
Infant	Child (18)		Love	Home (0)
Infant	Health (8)		Love	Sibling (0)
Infant	Childhood (1)		Marriage	Family (38)
Infant	Hospital (1)		Marriage	Child (23)
Infant	Old_age (1)		Marriage	Education (4)
Infant	Adolescence (0)		Marriage	Love (4)
Joy	Happiness (1)		Marriage	Mother (4)
Learning	Time (6)		Marriage	Father (2)
Learning	Education (5)		Marriage	Leisure (1)
Learning	Experience (5)		Marriage	Sibling (1)
Learning	Physical_fitness (1)		Marriage	Clothing (0)
Leisure	Time (22)		Money	Bread (0)
Leisure	Work (13)		Mother	Father (3)
Leisure	Education (3)		Mother	Family (2)
Leisure	Family (2)		Mother	Parent (2)
Leisure	Eating (1)		Mother	Birth (1)
Leisure	Marriage (1)		Mother	Sibling (0)
Leisure	Television (1)		Music	Human (7)
Leisure	Sibling (0)		Music	Book (5)
Light	Time (11)		Music	Pleasure (2)
Light	Sun (7)		Music	Party (0)
Light	Television (2)		Music	Philosophy (0)
Love	Friendship (8)		Music	Test_(assessment) (0)
Love	Family (6)		Nature	Plant (31)
Love	Emotion (4)		Nature	Animal (25)
Love	Biology (3)		Nature	Atmosphere_of_Earth (17)
Love	Pleasure (3)		Nature	Biology (2)
Love	Religion (3)		Nature	God (0)
Love	Happiness (2)		Old_age	Human (2)
Love	Hatred (1)		Old_age	Child (1)
Love	Marriage (1)		Old_age	Adolescence (0)
Love	Philosophy (1)		Old_age	Childhood (0)
Love	Sadness (1)		Old_age	Infant (0)
Marriage	Family (38)		Organism	Animal (15)
Marriage	Religion (14)		Organism	Plant (12)
Marriage	Death (5)		Organism	Evolution (10)
Marriage	God (5)		Organism	Biology (6)
Marriage	Love (4)		Organism	Atmosphere_of_Earth (1)
Marriage	Leisure (1)		Organism	Nature (1)
Marriage	Sibling (1)		Organism	Death (0)
Marriage	Emotion (0)		Organism	Diet_(nutrition) (0)
Money	Water (2)		Organism	Eating (0)
Money	Food (1)		Organism	Water (0)
Mother	Father (3)		Oxygen	Water (41)
Mother	Family (2)		Oxygen	Atmosphere_of_Earth (19)
Mother	Parent (2)		Oxygen	Plant (11)
Mother	Human (1)		Oxygen	Nature (8)
Mother	Leisure (0)		Oxygen	Animal (6)
Mother	Love (0)		Oxygen	Evolution (6)
Mother	Marriage (0)		Oxygen	Human (3)
Mother	Sibling (0)		Oxygen	Automobile (1)
Music	Time (10)		Oxygen	Death (1)
Music	Television (1)		Oxygen	Sun (0)
Music	Religion (0)		Oxygen	Tree (0)
Nature	Human (39)		Paper	Book (9)
Nature	Plant (31)		Paper	Clothing (1)
Nature	Animal (25)		Paper	Pen (1)
Nature	Atmosphere_of_Earth (17)		Paper	Bread (0)

Nature	Organism (11)		Parent	Mother (24)
Nature	Time (7)		Parent	Father (11)
Nature	Evolution (5)		Parent	Child (10)
Nature	Oxygen (4)		Parent	Sibling (2)
Nature	Sun (4)		Peace	War (8)
Nature	Biology (2)		People	Pet (0)
Old_age	Biology (1)		Pet	Cat (20)
Old_age	Child (1)		Pet	Dog (18)
Old_age	Adolescence (0)		Pet	House (0)
Old_age	Childhood (0)		Philosophy	Human (23)
Old_age	Death (0)		Philosophy	Experience (10)
Old_age	Infant (0)		Philosophy	Time (10)
Organism	Plant (12)		Philosophy	People (9)
Organism	Evolution (10)		Philosophy	Religion (7)
Organism	Biology (6)		Philosophy	Education (3)
Organism	Heart (1)		Philosophy	Future (3)
Oxygen	Water (41)		Philosophy	God (3)
Oxygen	Plant (11)		Philosophy	Love (2)
Oxygen	Heart (2)		Philosophy	Friendship (1)
Oxygen	Automobile (1)		Philosophy	Ground (1)
Oxygen	Disease (1)		Philosophy	Pleasure (1)
Oxygen	Philosophy (1)		Philosophy	Purpose (1)
Oxygen	Rain (1)		Philosophy	Evolution (0)
Oxygen	Sport (1)		Philosophy	Oxygen (0)
Oxygen	Sun (0)		Philosophy	Test (assessment) (0)
Paper	Book (9)		Physical_fitness	Health (3)
Paper	Clothing (1)		Physical_fitness	Death (0)
Parent	Mother (24)		Physical_fitness	Learning (0)
Parent	Father (11)		Plant	Food (13)
Parent	Child (10)		Plant	Animal (12)
Parent	Human (4)		Plant	Water (10)
Parent	Birth (2)		Plant	Biology (8)
Parent	Sibling (2)		Plant	Evolution (7)
Party	Music (7)		Plant	Organism (7)
Party	Family (3)		Plant	Flower (6)
Party	Television (2)		Plant	Forest (6)
Peace	War (8)		Plant	Atmosphere_of_Earth (4)
Peace	Education (1)		Plant	Oxygen (4)
Pen	Paper (3)		Plant	Nature (2)
People	Human (5)		Plant	Eating (1)
People	Philosophy (4)		Plant	Hobby (0)
People	Religion (3)		Plant	Rain (0)
People	Purpose (2)		Plant	Summer (0)
Pet	Animal (40)		Plant	Sun (0)
Pet	Cat (20)		Pleasure	Love (2)
Pet	Dog (18)		Pleasure	Emotion (0)
Pet	People (11)		Pleasure	Hatred (0)
Philosophy	Religion (7)		Pleasure	Sadness (0)
Philosophy	God (3)		Purpose	Goal (5)
Philosophy	Music (2)		Purpose	People (5)
Physical_fitness	Health (3)		Rain	Water (14)
Physical_fitness	Diet (nutrition) (1)		Rain	City (2)
Plant	Tree (16)		Rain	Forest (0)
Plant	Animal (12)		Rain	Oxygen (0)
Plant	Water (10)		Religion	God (18)
Plant	Biology (8)		Religion	Philosophy (16)
Plant	Organism (7)		Religion	Human (12)
Plant	Flower (6)		Religion	People (12)
Plant	Forest (6)		Religion	War (2)
Plant	Atmosphere_of_Earth (4)		Religion	Future (1)
Plant	Light (4)		Religion	Time (1)
Plant	Oxygen (4)		Religion	City (0)
Plant	Nature (2)		Religion	Clothing (0)
Plant	Time (1)		Religion	Diet (nutrition) (0)
Pleasure	Philosophy (3)		Religion	Love (0)
Pleasure	Love (2)		Religion	Marriage (0)
Pleasure	Happiness (1)		Religion	Music (0)
Pleasure	Music (1)		Sadness	Emotion (3)
Pleasure	Emotion (0)		Sadness	Sorrow (1)
Pleasure	Hatred (0)		Sadness	Hatred (0)
Pleasure	Sadness (0)		Sadness	Love (0)
Purpose	Happiness (8)		Sadness	Pleasure (0)
Purpose	Philosophy (8)		School	Education (23)
Purpose	Goal (5)		School	Teacher (7)
Purpose	God (1)		School	Food (0)

Rain	Water (14)		Sea	Water (9)
Rain	Plant (6)		Sibling	Child (32)
Rain	Sun (1)		Sibling	Parent (16)
Religion	God (18)		Sibling	Family (14)
Religion	Philosophy (16)		Sibling	Father (3)
Religion	Human (12)		Sibling	Marriage (3)
Religion	Evolution (3)		Sibling	Mother (2)
Religion	Sun (2)		Sibling	Education (0)
Sadness	Emotion (3)		Sibling	Leisure (0)
Sadness	Happiness (2)		Sorrow	Sadness (1)
Sadness	Sorrow (1)		Sport	Adolescence (0)
Sadness	Hatred (0)		Sport	Hobby (0)
Sadness	Love (0)		Sport	Oxygen (0)
Sadness	Pleasure (0)		Sun	Light (24)
School	Education (23)		Sun	Water (6)
School	Teacher (7)		Sun	Nature (4)
Sea	Water (9)		Sun	Oxygen (3)
Shoe	Clothing (1)		Sun	Birth (0)
Sibling	Parent (16)		Sun	Rain (0)
Sibling	Family (14)		Sun	Religion (0)
Sibling	Love (4)		Teacher	School (22)
Sibling	Father (3)		Teacher	Education (20)
Sibling	Marriage (3)		Teacher	Test (assessment) (0)
Sibling	Mother (2)		Telephone	Computer (2)
Sorrow	Sadness (1)		Television	Time (6)
Sport	Television (4)		Television	Music (3)
Summer	Plant (1)		Television	Adolescence (0)
Sun	Oxygen (3)		Television	Clothing (0)
Sun	Plant (2)		Television	Computer (0)
Teacher	School (22)		Television	House (0)
Teacher	Education (20)		Television	Leisure (0)
Teacher	Learning (5)		Television	Light (0)
Teacher	Goal (0)		Television	Party (0)
Test (assessment)	Education (5)		Television	Sport (0)
Test (assessment)	Teacher (3)		Time	Clock (24)
Test (assessment)	Music (1)		Time	Light (14)
Test (assessment)	Philosophy (1)		Time	Future (12)
Time	Philosophy (26)		Time	Experience (10)
Time	Clock (24)		Time	Nature (10)
Time	Light (14)		Time	Plant (1)
Time	Future (12)		Time	Water (1)
Time	God (6)		Time	Animal (0)
Time	Religion (3)		Time	Atmosphere_of_Earth (0)
Time	Education (1)		Time	Biology (0)
Time	Television (1)		Time	Learning (0)
Tree	Forest (5)		Time	Leisure (0)
Tree	Water (3)		Time	Music (0)
Tree	Oxygen (1)		Travel	Water (0)
War	Peace (21)		Tree	Plant (14)
War	Religion (4)		Tree	Forest (5)
War	Disease (3)		War	Human (23)
War	Hatred (2)		War	Peace (21)
Water	Human (27)		War	Death (15)
Water	Sea (14)		War	Food (2)
Water	Oxygen (11)		Water	Food (26)
Water	Time (9)		Water	Sea (14)
Water	Plant (8)		Water	Oxygen (11)
Water	Rain (8)		Water	Plant (8)
Water	Sun (5)		Water	Rain (8)
Water	Organism (2)		Water	Animal (5)
Water	Travel (1)		Water	Bread (0)
Water	Biology (0)		Water	Money (0)
World	Human (5)		Water	Tree (0)
World	Experience (2)		Work	Leisure (0)

## Appendix W

User interfaces of a prototype tools used by experiment group (n=49) and control group (n=24) to perform an exploration task (texts provided only in Finnish), as discussed in Subchapter 10.2.

User interface of a prototype tool used by experiment group (n=49) for exploration phase:



English translation of texts of the user interface:

Phase 1.

Your task is to traverse along a chain formed of words as logically as possible. One word at a time you must select to which direction the route of word chain should continue.

Read carefully all sentences in the list and select with mouse the sentence whose highlighted word is most naturally connected to current word (that is shown above the list). When you have proceeded 20 steps you will be automatically transferred to Phase 2.

It is very important that before each new step you read attentively through all sentences and highlighted most important words in them.

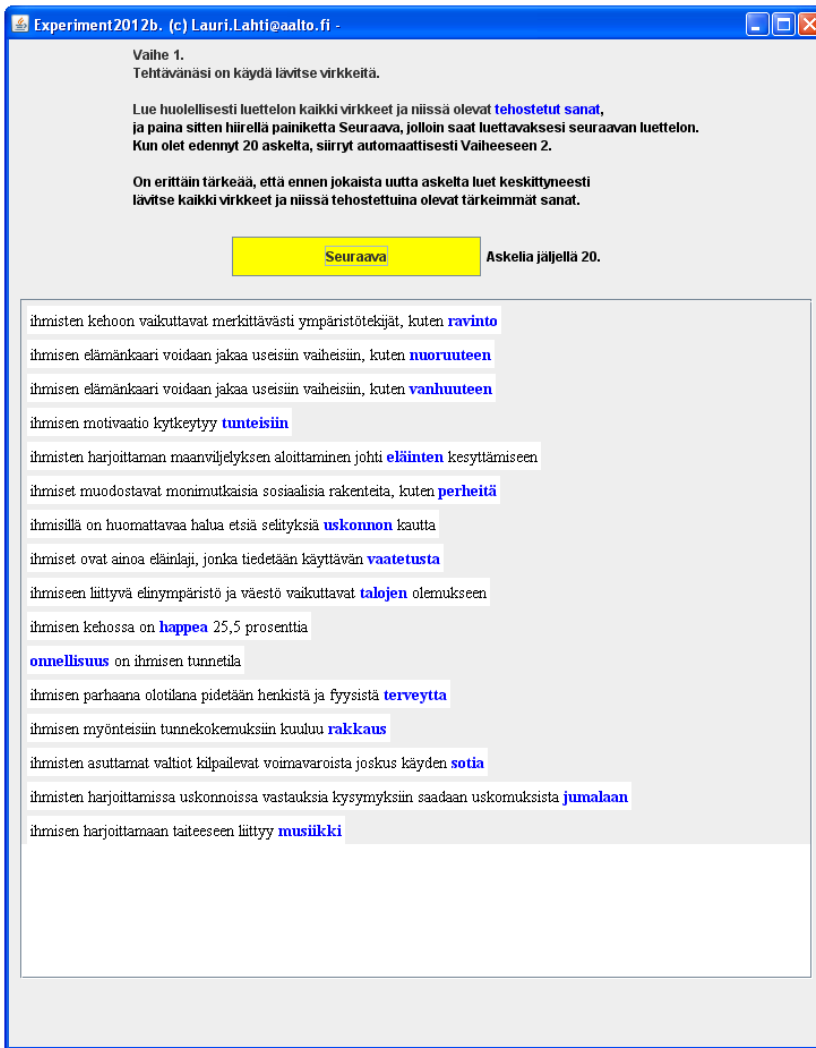
Next step (20 left):

Human->?

(A list of sentences.)



## User interface of a prototype tool used by control group (n=24) for exploration phase:



### English translation of texts of the user interface:

#### Phase 1.

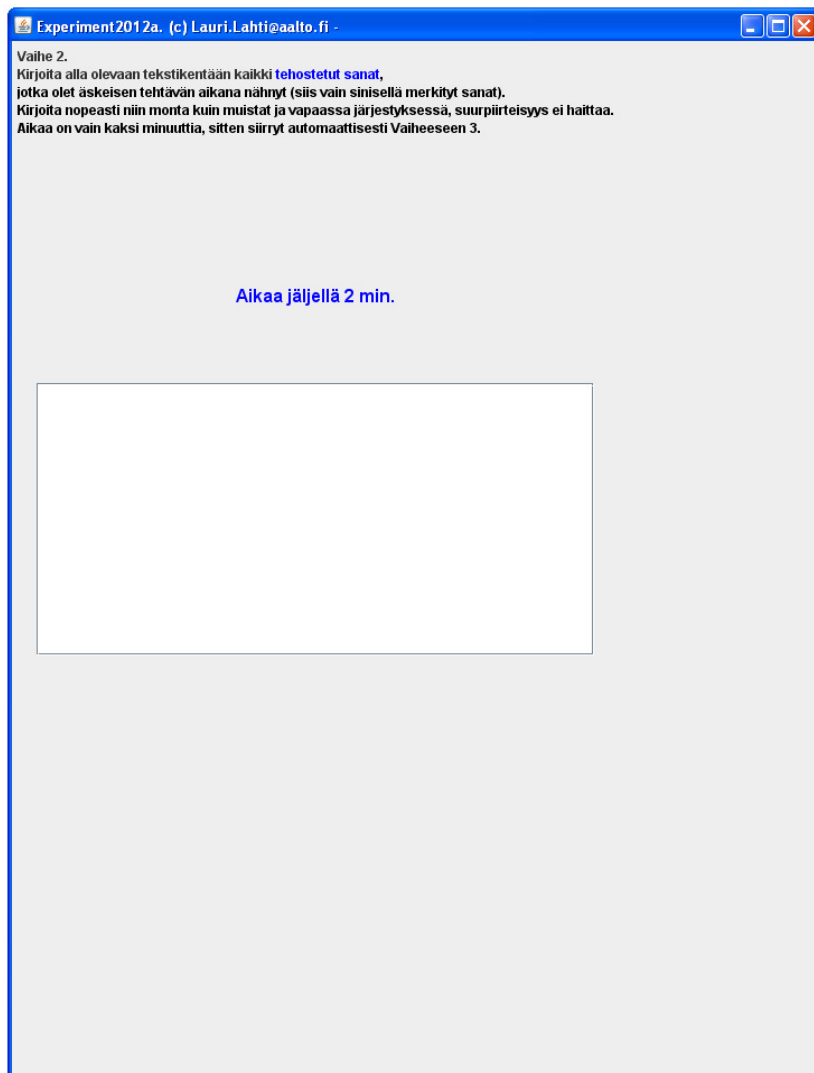
Your task is to traverse through sentences.

Read carefully all sentences in the list and highlighted words in them and then press button Next with mouse to get a next list to be read. When you have proceeded 20 steps you will be automatically transferred to Phase 2.

It is very important that before each new step you read attentively through all sentences and highlighted most important words in them.

Next (steps left 20).  
(A list of sentences.)

User interface of a prototype tool used by both experiment group (n=49) and control group (n=24) for recalling phase:



English translation of texts of the user interface:

Phase 2.

Write into the text field below all highlighted words that you have seen during previous task (i.e. only words written in blue). Write fast as many as you can and in a free order, approximateness is not a problem. Time available only two minutes, then you will be automatically transferred to Phase 3.

Time left 2 min.

User interface of a prototype tool used by both experiment group (n=49) and control group (n=24) for phase of giving background information:

Vaihe 3.  
Anna itsestäsi seuraavat taustatiedot  
ja paina sitten lopuksi painiketta Tallentaminen.

Nimesi/  
nimimerkki:  Ikäsi: Valitse:  Sukupuolesi: Valitse:  Kuinka hyvin  
mielestäsi menestyt koulussa? Valitse:

Jos vertaat perinteiseen kirjasta opiskeluun,  
niin äsken kokeilemasi menetelmä luetun  
omaksumiseen vaikuttaa... Valitse:

Opiskelijana oletko kiinnostunut  
käyttämään äsken kokeilemaasi  
menetelmää luetun omaksumiseen? Valitse:

Kuinka helppoa sinulle itsellesi on omaksua  
uutta asiaa lukemalla? Valitse:

Kirjoita tähän kehitysehdotuksia  
ja muuta palautetta, jos haluat.  
Mielellään myös sähköpostiosoitteesi,  
jotta voisimme jatkossakin pyytää sinua  
auttamaan opetusmenetelmien tutkimuksessa.

Tallentaminen  
(paina kun saat työsi valmiiksi)

English translation of texts of the user interface:

Phase 3.

Give following background information about yourself and then finally press button Saving.

Your name/alias, your age (select), your gender (select).

In your opinion, how successfully do you perform at school? (select).

If you compare to traditional learning from a book, then the method you have just tried for adopting knowledge through reading appears to be..." (select).

As a student are you interested in using the method you just tried for adoption of knowledge through reading? (select).

How easy it is for you to adopt new knowledge through reading? (select).

Write here development proposals and other feedback if you want. Willingly also your email address so that we could also in the future ask you to help in the research of teaching methods.

Saving (press when you have finished your work).

In Subchapter 10.2 two learning cases are compared by asking an experiment group and a control group to perform an exploration task. Each member of the control group (n=24) had to proceed a predefined fixed series of twenty text pages, each one of them providing same kind of sentences with highlighted hyperlinked concepts as for the experiment group but without continuity between these pages and without possibility to select a hyperlink to proceed next while keeping continuity between pieces of knowledge. The predefined fixed series of twenty text pages the students had to proceed is listed here in this Appendix W. Each of twenty pages represented a concept so that all hyperlinked concepts on this page corresponded to hyperlinks going from concept represented by this page to all those hyperlinked concepts and thus all hyperlinked concepts on the same page had a shared start concept. However when proceeding to next page the concept represented by the next page was not any of those hyperlinked concepts of previous page and thus continuity between consecutive pages was minimized on purpose. This series of twenty pages was created based on exploration paths we traversed before the experiment and then reorganizing the order of pages.

Sentences of twenty pages are based on relation statements of 212 hyperlinks belonging to “hyperlink network of 55 concepts” (shown in Appendix J) that was used in exploration task of experiment group (as explained in Subchapter 10.2). In relation statement the start concept has been indicated with a notation starting with character string “A1” and ending with character string “A2” and the end concept has been indicated with a notation starting with character string “B1” and ending with character string “B2”. These notations helped to automatically highlight with different colors both start concept and end concept in relation statement when it was shown to the student during exploration experiment.

*English version:*

<p>Page 1:  concerning A1humansA2 body size is significantly influenced by environmental factors such as B1dietB2;  A1humanA2 life span can be split into a number of stages like B1adolescenceB2;  A1humanA2 life span can be split into a number of stages like B1old ageB2;  concerning A1humansA2 motivation is connected to B1emotionsB2;  advent of agriculture by A1humansA2 led to domestication of B1animalsB2;  A1humansA2 create complex social structures such as B1familiesB2;  A1humansA2 are noted for their desire seeking explanations through B1religionB2;  A1humansA2 are the only species known to B1clotheB2 themselves;  concerning A1humansA2 habitat and population influence characteristics of B1housesB2;  A1humanA2 body contains 25.5 percent B1oxygenB2;  B1happinessB2 is a A1humanA2 emotional condition;  the best condition for A1humanA2 can be considered mental and physical B1healthB2;  concerning A1humansA2 emotional experiences perceived as pleasant include B1loveB2;  B1warB2 is a conflict between states of A1humansA2 involving a dispute over resources;  concerning A1humanA2 religions a common source for answers to questions are beliefs in B1godB2;  concerning A1humansA2 art is connected to B1musicB2;</p>
<p>Page 2:  A1educationA2 encompasses teaching and B1learningB2 specific skills;  A1educationA2 in secondary school occurs during B1adolescenceB2;  A1educationA2 is a challenging task requiring an understanding of who B1childrenB2 are;  progress based on A1educationA2 depends on having capacities that B1schoolingB2 can educate;  A1educationA2 is a means to foster future development of B1humansB2;  educational psychology related to A1educationA2 is based on psychology like medicine is based on B1biologyB2;  in A1educationA2 informal relationships can be established between B1teachersB2 and students;  according to the declaration of human rights that covers also A1educationA2 everyone has right for B1brotherhoodB2;  according to the declaration of human rights that covers also A1educationA2 everyone has right for B1familyB2 life;  according to the declaration of human rights that covers also A1educationA2 everyone has right for B1leisureB2;</p>
<p>Page 3:  concerning A1familyA2 a B1motherB2 is a female parent;  concerning A1familyA2 a B1fatherB2 is a male parent;  in A1familyA2 a B1siblingB2 is a child of the same parents;  A1familyA2 serves to give social orientation for B1childrenB2;  according to the declaration of human rights that covers also A1familyA2 everyone has right for B1leisureB2;</p>
<p>Page 4:  A1deathA2 is the end of the life of a biological B1organismB2;  many factors can contribute to an organism's A1deathA2, including B1diseaseB2;  A1deathA2 was once defined as the cessation of beating of B1heartB2;  a loss of homeostasis of body related to A1deathA2 causes loss of B1oxygenB2;  causes of A1deathA2 can be postponed by B1dietB2;</p>

<p>an autopsy is examination of a B1humanB2 corpse to determine the cause of a person's A1deathA2; B1warB2 can be considered as a situation whereby A1deathA2 assumes absolute value (taken from article War);</p>
<p>Page 5: A1plantsA2 are a major group of life forms and include familiar B1organismsB2 such as trees; fungi are not related to photosynthetic groups of A1plantsA2 but are close relatives of B1animalsB2; most A1plantsA2 obtain their energy through photosynthesis, using B1lightB2 and carbon dioxide; among A1plantsA2 conifers are dominant B1treesB2; growth of A1plantsA2 is also determined by environmental factors, such as available B1waterB2; concerning A1plantsA2 photosynthesis changed the composition of the early Earth's atmosphere which is now 21 percent B1oxygenB2; in B1natureB2 human has contributed to the extinction of many A1plantsA2; concerning A1plantsA2 in nature B1biologyB2 has a central role for life;</p>
<p>Page 6: A1childA2 as a term may define a relationship with a B1parentB2 or authority; B1old ageB2 is a matured stage of personal development which contains also A1childhoodA2; B1adulthoodB2 is a legally important stage in personal development which contains also A1childhoodA2; according to the declaration of human rights that covers also A1childrenA2 everyone has right for B1brotherhoodB2; according to the declaration of human rights that covers also A1childrenA2 everyone has right for B1familyB2 life; according to the declaration of human rights that covers also A1childrenA2 everyone has right for B1leisureB2;</p>
<p>Page 7: A1animalsA2 are multicellular B1organismsB2; when talking about A1animalsA2 it is often referred to other animals than B1humansB2; A1animalsA2 generally digest food internally which separates them from B1plantsB2; A1animalsA2 benefit from plants which with carbon dioxide and B1waterB2 store the energy of sunlight; A1animalsA2 benefit from process in which the energy of sunlight helps to release B1oxygenB2; in nature B1biologyB2 has a central role for life such as A1animalsA2;</p>
<p>Page 8: A1loveA2 has many different meanings ranging to something one would die for, like B1familyB2; A1loveA2 can describe an intense feeling of affection, an B1emotionB2 or an emotional state; A1loveA2 is connected to emotions about B1happinessB2; concerning A1loveA2 B1friendshipB2 means the spirit between friends; throughout history, philosophy and B1religionB2 have done the most speculation on the phenomenon of A1loveA2; according to B1biologyB2 there are two major drives in A1loveA2: sexual attraction and attachment;</p>
<p>Page 9: components of A1waterA2, hydrogen and B1oxygenB2, are among the most abundant elements in the universe; existence of A1waterA2 is vital to the existence of life on Earth like B1organismsB2; the Earth is located at such distance from the B1SunB2 allowing the three forms of A1waterA2; liquid A1waterA2 is found in bodies of water such as B1seaB2; there is a continuous exchange of A1waterA2 between ground and atmosphere through e.g. B1plantsB2; concerning A1waterA2 rivers and seas offer opportunity for B1travelB2; storage of A1waterA2 is important, since it is essential to B1humanB2 life; from a B1biologicalB2 standpoint, A1waterA2 has many distinct properties that are critical for the proliferation of life;</p>
<p>Page 10: concerning A1religionA2 Isaac Newton believed that the planets revolve about the B1SunB2 and credited God with the design; A1religionA2 is related to awareness of B1GodB2 through direct personal experience; concerning A1religionA2 B1humansB2 have methods which attempt to answer fundamental questions;</p>
<p>Page 11: A1oxygenA2 in the form of O<sub>2</sub> is produced from water e.g. by B1plantsB2 during photosynthesis; near the earth's surface ozone consisting of A1oxygenA2 is a pollutant formed from B1automobileB2 exhaust; A1oxygen therapy is used to treat B1heartB2 disorders; A1oxygen therapy is used to treat B1diseasesB2 that impair the ability to use gaseous oxygen; B1waterB2 (H<sub>2</sub>O) is the oxide of hydrogen and the most familiar A1oxygenA2 compound;</p>
<p>Page 12: part of B1biologyB2 related to A1ageingA2 is called senescence; A1old ageA2 is a stage of life preceding B1deathB2; B1childB2 is a legally important stage in personal development like also A1old ageA2; B1adulthoodB2 is a legally important stage in personal development like A1old ageA2;</p>
<p>Page 13: A1educationA2 encompasses teaching and B1learningB2 specific skills; A1educationA2 in secondary school occurs during B1adulthoodB2; A1educationA2 is a challenging task requiring an understanding of who B1childrenB2 are; progress based on A1educationA2 depends on having capacities that B1schoolingB2 can educate; A1educationA2 is a means to foster future development of B1humansB2; educational psychology related to A1educationA2 is based on psychology like medicine is based on B1biologyB2; in A1educationA2 informal relationships can be established between B1teachersB2 and students; according to the declaration of human rights that covers also A1educationA2 everyone has right for B1brotherhoodB2; according to the declaration of human rights that covers also A1educationA2 everyone has right for B1familyB2 life; according to the declaration of human rights that covers also A1educationA2 everyone has right for B1leisureB2;</p>
<p>Page 14: A1plantsA2 are a major group of life forms and include familiar B1organismsB2 such as trees; fungi are not related to photosynthetic groups of A1plantsA2 but are close relatives of B1animalsB2; most A1plantsA2 obtain their energy through photosynthesis, using B1lightB2 and carbon dioxide; among A1plantsA2 conifers are dominant B1treesB2; growth of A1plantsA2 is also determined by environmental factors, such as available B1waterB2; concerning A1plantsA2 photosynthesis changed the composition of the early Earth's atmosphere which is now 21 percent B1oxygenB2; concerning A1plantsA2 in nature B1biologyB2 has a central role for life;</p>
<p>Page 15: A1childA2 as a term may define a relationship with a B1parentB2 or authority; B1old ageB2 is a matured stage of personal development which contains also A1childhoodA2;</p>

<p>B1adolescenceB2 is a legally important stage in personal development which contains also A1childhoodA2; according to the declaration of human rights that covers also A1childrenA2 everyone has right for B1brotherhoodB2; according to the declaration of human rights that covers also A1childrenA2 everyone has right for B1familyB2 life; according to the declaration of human rights that covers also A1childrenA2 everyone has right for B1leisureB2;</p>
<p>Page 16: concerning A1humansA2 body size is significantly influenced by environmental factors such as B1dietB2; A1humanA2 life span can be split into a number of stages like B1adolescenceB2; A1humanA2 life span can be split into a number of stages like B1old ageB2; concerning A1humansA2 motivation is connected to B1emotionsB2; advent of agriculture by A1humansA2 led to domestication of B1animalsB2; A1humansA2 create complex social structures such as B1familiesB2; A1humansA2 are noted for their desire seeking explanations through B1religionB2; A1humansA2 are the only species known to B1clotheB2 themselves; concerning A1humansA2 habitat and population influence characteristics of B1housesB2 ; A1humanA2 body contains 25.5 percent B1oxygenB2; B1happinessB2 is a A1humanA2 emotional condition; the best condition for A1humanA2 can be considered mental and physical B1healthB2; concerning A1humansA2 emotional experiences perceived as pleasant include B1loveB2; B1warB2 is a conflict between states of A1humansA2 involving a dispute over resources; concerning A1humansA2 art is connected to B1musicB2;</p>
<p>Page 17: A1deathA2 is the end of the life of a biological B1organismB2; many factors can contribute to an organism's A1deathA2, including B1diseaseB2; A1deathA2 was once defined as the cessation of beating of B1heartB2; a loss of homeostasis of body related to A1deathA2 causes loss of B1oxygenB2; causes of A1deathA2 can be postponed by B1dietB2; B1warB2 can be considered as a situation whereby A1deathA2 assumes absolute value (taken from article War);</p>
<p>Page 18: components of A1waterA2, hydrogen and B1oxygenB2, are among the most abundant elements in the universe; existence of A1waterA2 is vital to the existence of life on Earth like B1organismsB2; the Earth is located at such distance from the B1SunB2 allowing the three forms of A1waterA2; liquid A1waterA2 is found in bodies of water such as B1seaB2; there is a continuous exchange of A1waterA2 between ground and atmosphere through e.g. B1plantsB2; storage of A1waterA2 is important, since it is essential to B1humanB2 life; from a B1biologicalB2 standpoint, A1waterA2 has many distinct properties that are critical for the proliferation of life;</p>
<p>Page 19: concerning A1familyA2 a B1motherB2 is a female parent; concerning A1familyA2 a B1fatherB2 is a male parent; in A1familyA2 a B1siblingB2 is a child of the same parents; A1familyA2 serves to give social orientation for B1childrenB2; according to the declaration of human rights that covers also A1familyA2 everyone has right for B1leisureB2;</p>
<p>Page 20: concerning A1natureA2 one part of the Earth is more exposed to the rays of the B1SunB2; in A1natureA2 biological manifestation of life concerning B1organismsB2 is characterized by organization; in A1natureA2 properties common to organisms, such as B1plantsB2, are that they are cellular; in A1natureA2 properties common to organisms, such as B1animalsB2, are that they are cellular; in A1natureA2 B1biologyB2 has a central role for life; in A1natureA2 wilderness is generally defined as an environment that has not been directly modified by B1humanB2;</p>

*Finnish version:*

<p>Page 1: A1ihmistenA2 kehoon vaikuttavat merkittävästi ympäristötekijät, kuten B1ravintoB2; A1ihmisenA2 elämänkaari voidaan jakaa useisiin vaiheisiin, kuten B1nuoruuteenB2; A1ihmisenA2 elämänkaari voidaan jakaa useisiin vaiheisiin, kuten B1vanhuuteenB2; A1ihmisenA2 motivaatio kytkeytyy B1tunteisiinB2; A1ihmistenA2 harjoittaman maanviljelyksen aloittaminen johti B1eläintenB2 kesyttämiseen; A1ihmisetA2 muodostavat monimutkaisia sosiaalisia rakenteita, kuten B1perheitäB2; A1ihmisilläA2 on huomattavaa halua etsiä selityksiä B1uskonnonB2 kautta; A1ihmisetA2 ovat ainoa eläinlaji, jonka tiedetään käyttävän B1vaatetustaB2; A1ihmiseenA2 liittyvä elinympäristö ja väestö vaikuttavat B1talojenB2 olemukseen; A1ihmisenA2 kehossa on B1happeaB2 25,5 prosenttia; B1onnellisuusB2 on A1ihmisenA2 tunnetila; A1ihmisenA2 parhaana olotilana pidetään henkistä ja fyysistä B1terveyttäB2; A1ihmisenA2 myönteisiin tunnekokemuksiin kuuluu B1rakkausB2; A1ihmistenA2 asuttamat valtiot kilpailevat voimavaroista joskus käyden B1sotiaB2; A1ihmistenA2 harjoittamissa uskonnoissa vastauksia kysymyksiin saadaan uskomuksista B1jumalaanB2; A1ihmisenA2 harjoittamaan taiteeseen liittyy B1musiikkiB2;</p>
<p>Page 2: A1koulutusA2 sisältää erityisten taitojen opettamista ja B1oppimistaB2; yläluokilla tarjottava A1koulutusA2 tapahtuu B1nuoruudenB2 aikana; A1koulutusA2 on vaativa tehtävä edellyttäen sen ymmärtämistä, millaisia B1lapsetB2 ovat; A1koulutukseenA2 perustuva kehitys riippuu kyvystä joita B1koulunB2käynti voi opettaa; A1koulutusA2 on keino edistää B1ihmistenB2 tulevaisuuden kehittämistä; A1koulutustaA2 koskeva kasvatuspsykologia pohjautuu psykologiaan, kuten lääketiede pohjautuu B1biologiaanB2;</p>

<p>A1koulutuksessaA2 voi esiintyä epämuodollisia suhteita B1opettajienB2 ja opiskelijoiden välillä;  myös A1koulutustaA2 koskevan ihmisoikeuksien julistuksen mukaan kaikille kuuluu oikeus B1sisarusB2suhteisiin;  myös A1koulutustaA2 koskevan ihmisoikeuksien julistuksen mukaan kaikille kuuluu oikeus B1perheB2-elämään;  myös A1koulutustaA2 koskevan ihmisoikeuksien julistuksen mukaan kaikille kuuluu oikeus B1vapaa-aikaanB2;</p>
<p>Page 3:  A1perheeseenA2 liittyen B1äitiB2 on naispuolinen vanhempi;  A1perheeseenA2 liittyen B1isäB2 on miespuolinen vanhempi;  A1perheessäA2 henkilön B1sisarusB2 on lapsi, jolla on samat vanhemmat;  A1perheA2 auttaa B1lastaB2 suuntautumaan sosiaalisesti;  myös A1perhettäA2 koskevan ihmisoikeuksien julistuksen mukaan kaikilla on oikeus B1vapaa-aikaanB2;</p>
<p>Page 4:  A1kuolemaA2 on biologisen B1eliönB2 elämän päätyminen;  eliön A1kuolemaanA2 voivat vaikuttaa useat tekijät mukaan lukien B1sairaudetB2;  aikoinaan A1kuolemaA2 määriteltiin B1sydämenB2 lyönnin pysähtymisenä;  A1kuolemaanA2 liittyvä elimistön tasapainon menetys aiheuttaa B1hapenB2 puutetta;  syitä A1kuolemaanA2 voidaan lykätä B1ravinnollaB2;  ruumiinavaus on B1ihmisenB2 ruumiin tutkiminen A1kuolemanA2 syyn selvittämiseksi;  B1sotaaB2 voidaan pitää tilanteena, jossa A1kuolemaA2 saa ehdottoman aseman;</p>
<p>Page 5:  A1kasvitA2 ovat keskeinen ryhmä elämänmuotoja ja sisältävät tuttuja B1eliöitäB2, kuten puita;  sienet eivät liity A1kasvienA2 yhteyttävään ryhmään, vaan ovat lähisukulaisia B1eläimilleB2;  useat A1kasvitA2 hankkivat energiansa yhteyttämällä käyttäen B1valoaB2 ja hiilidioksidia;  A1kasvienA2 joukossa paljassienemenet ovat hallitsevia B1puitaB2 useissa eloyhteisöissä;  A1kasvienA2 kasvu määräytyy myös ympäristötekijöistä, kuten saatavilla olevasta B1vedestäB2;  A1kasveihinA2 liittyvä yhteyttäminen muutti varhaisen maapallon ilmakemää, jossa on nykyisin 21 prosenttia B1happeaB2;  B1luonnossaB2 ihminen on vaikuttanut useiden A1kasvienA2 sukupuuttoon;  A1kasveihinA2 liittyen luonnossa B1biologiallaB2 on keskeinen merkitys elämälle;</p>
<p>Page 6:  A1lapsiA2 käsitteenä voi määritellä suhteen B1vanhempaanB2 tai auktoriteettiin;  B1vanhuusB2 on kypsytynyt vaihe yksilönkehityksessä, johon myös A1lapsuusA2 kuuluu;  B1nuoruusB2 on oikeudellisesti tärkeä vaihe yksilönkehityksessä, johon myös A1lapsuusA2 kuuluu;  myös A1lapsiaA2 koskevan ihmisoikeuksien julistuksen mukaan kaikille kuuluu oikeus B1sisarusB2suhteisiin;  myös A1lapsiaA2 koskevan ihmisoikeuksien julistuksen mukaan kaikille kuuluu oikeus B1perheB2-elämään;  myös A1lapsiaA2 koskevan ihmisoikeuksien julistuksen mukaan kaikille kuuluu oikeus B1vapaa-aikaanB2;</p>
<p>Page 7:  A1eläimetA2 ovat monisoluisia B1eliöitäB2;  A1eläimistäA2 puhuttaessa usein viitataan muihin eläimiin kuin B1ihmisiinB2;  A1eläimetA2 yleensä sulattavat ravinnon sisäisesti mikä erottaa ne B1kasveistaB2;  A1eläimetA2 hyötyvät kasveista jotka hiilidioksidin ja B1vedenB2 avulla varastoivat auringonvalon energiaa ;  A1eläimetA2 hyötyvät siitä että auringonvalon energian avulla vapautuu B1happeaB2;  luonnossa B1biologiallaB2 on keskeinen merkitys elämälle, kuten A1eläimilleA2;</p>
<p>Page 8:  A1rakkaudellaA2 on eri merkityksiä ulottuen johonkin, jonka puolesta kuolla, kuten B1perheB2;  A1rakkausA2 voi tarkoittaa kiihkeää kiintymystä, B1tunnettaB2 tai tunnetilaa;  A1rakkauteenA2 liittyy tunteita B1onnellisuudestaB2;  A1rakkauteenA2 liittyen B1ystävyydenB2 merkitsee ystävien välillä vallitsevaa yhteishenkeä;  läpi historian filosofia ja B1uskontoB2 ovat eniten spekuloineet A1rakkaudenA2 ilmiöllä;  B1biologianB2 perusteella A1rakkaudellaA2 on kaksi vaikutinta: seksuaalinen vetovoima ja kiintymys;</p>
<p>Page 9:  A1vedenA2 ainesosat vety ja B1happiB2 ovat yleisimpien aineiden joukossa maailmankaikeudessa;  A1vedenA2 esiintyminen on välttämätöntä elämän olemassaololle maan päällä, kuten B1eliöilleB2;  maapallo sijaitsee B1auringostaB2 etäisyydellä, joka mahdollistaa A1vedelleA2 kolme olomuotoa;  nestemäistä A1vettäA2 esiintyy vesistöissä, kuten B1meressäB2;  A1vesiA2 kulkee maanperän ja ilmakehän välillä mm. B1kasvienB2 kautta;  A1veteenA2 liittyen joet ja meret tarjoavat tilaisuuden B1matkustamiselleB2;  A1vedenA2 varastointi on tärkeää, sillä se on olennaista B1ihmisenB2 elämälle;  B1biologianB2 mukaan A1vedelläA2 on useita erityisominaisuuksia elämän edistämiseksi;</p>
<p>Page 10:  A1uskontoonA2 liittyen Isaac Newton uskoi, että planeetat pyörivät B1auringonB2 ympäri jumalan suunnittelutyön seurauksena;  A1uskontoonA2 liittyy tietoisuus B1jumalastaB2 suoran henkilökohtaisen kokemuksen kautta;  A1uskontoaA2 koskien B1ihmisilläB2 on menetelmiä vastauksen saamiseksi perimmäisiin kysymyksiin;</p>
<p>Page 11:  A1happiA2 muodossa O2 syntyy vedestä mm. B1kasvienB2 yhteyttämisen kautta;  A1hapestaaA2 koostuva otsoni on maan pinnalla saaste, joka syntyy B1autojenB2 pakokaasuista;  A1happiA2terapiaa käytetään B1sydämenB2 häiriöiden hoitoon;  A1happiA2terapiaa käytetään B1sairauksienB2 hoitoon, jotka vaikeuttavat hapen käyttöä;  B1vesiB2 (H2O) on vedyn oksidi ja yleisin A1happiA2yhdiste;</p>
<p>Page 12:  A1vanhuuteenA2 liittyvää B1biologianB2 osa-aluetta kutsutaan seneskenssiksi;  A1vanhuusA2 on B1kuolemaaB2 edeltävä elämänvaihe;  B1lapsiB2 on oikeudellisesti tärkeässä yksilönkehityksen vaiheessa, jollainen on myös A1vanhuusA2;  B1nuoruusB2 on oikeudellisesti tärkeä vaihe yksilönkehityksessä, kuten A1vanhuusA2;</p>
<p>Page 13:  A1koulutusA2 sisältää erityisten taitojen opettamista ja B1oppimistaB2;  yläluokilla tarjottava A1koulutusA2 tapahtuu B1nuoruudenB2 aikana;  A1koulutusA2 on vaativa tehtävä edellyttäen sen ymmärtämistä, millaisia B1lapsetB2 ovat;  A1koulutukseenA2 perustuva kehitys riippuu kyvyistä joita B1koulunB2käynti voi opettaa;  A1koulutusA2 on keino edistää B1ihmistenB2 tulevaisuuden kehittämistä;</p>

<p>A1koulutustaA2 koskeva kasvatuspsykologia pohjautuu psykologiaan, kuten lääketiede pohjautuu B1biologiaanB2;  A1koulutuksessaA2 voi esiintyä epämuodollisia suhteita B1opettajienB2 ja opiskelijoiden välillä;  myös A1koulutustaA2 koskevan ihmisoikeuksien julistuksen mukaan kaikille kuuluu oikeus B1sisarusB2suhteisiin;  myös A1koulutustaA2 koskevan ihmisoikeuksien julistuksen mukaan kaikille kuuluu oikeus B1perheB2-elämään;  myös A1koulutustaA2 koskevan ihmisoikeuksien julistuksen mukaan kaikille kuuluu oikeus B1vapaa-aikaanB2;</p>
<p>Page 14:  A1kasvitA2 ovat keskeinen ryhmä elämänmuotoja ja sisältävät tuttuja B1eliöitäB2, kuten puita;  sienet eivät liity A1kasvienA2 yhteyttävään ryhmään, vaan ovat lähisukulaisia B1eläimilleB2;  useat A1kasvitA2 hankkivat energiansa yhteyttämällä käyttäen B1valoaB2 ja hiilidioksidia;  A1kasvienA2 joukossa paljassiemeniset ovat hallitsevia B1puitaB2 useissa eloyhteisöissä;  A1kasvienA2 kasvu määräytyy myös ympäristötekijöistä, kuten saatavilla olevasta B1vedestäB2;  A1kasveihinA2 liittyvä yhteyttäminen muutti varhaisen maapallon ilmakehää, jossa on nykyisin 21 prosenttia B1happeaB2;  A1kasveihinA2 liittyen luonnossa B1biologiallaB2 on keskeinen merkitys elämälle;</p>
<p>Page 15:  A1lapsiA2 käsitteenä voi määrittellä suhteen B1vanhempaanB2 tai auktoriteettiin;  B1vanhuusB2 on kypsynyt vaihe yksilönkehityksessä, johon myös A1lapsuusA2 kuuluu;  B1nuoruusB2 on oikeudellisesti tärkeä vaihe yksilönkehityksessä, johon myös A1lapsuusA2 kuuluu;  myös A1lapsiaA2 koskevan ihmisoikeuksien julistuksen mukaan kaikille kuuluu oikeus B1sisarusB2suhteisiin;  myös A1lapsiaA2 koskevan ihmisoikeuksien julistuksen mukaan kaikille kuuluu oikeus B1perheB2-elämään;  myös A1lapsiaA2 koskevan ihmisoikeuksien julistuksen mukaan kaikille kuuluu oikeus B1vapaa-aikaanB2;</p>
<p>Page 16:  A1ihmistenA2 kehoon vaikuttavat merkittävästi ympäristötekijät, kuten B1ravintoB2;  A1ihmisenA2 elämänkaari voidaan jakaa useisiin vaiheisiin, kuten B1nuoruuteenB2;  A1ihmisenA2 elämänkaari voidaan jakaa useisiin vaiheisiin, kuten B1vanhuuteenB2;  A1ihmisenA2 motivaatio kytkeytyy B1tunteisiinB2;  A1ihmistenA2 harjoittaman maanviljelyksen aloittaminen johti B1eläintenB2 kesyttämiseen;  A1ihmisetA2 muodostavat monimutkaisia sosiaalisia rakenteita, kuten B1perheitäB2;  A1ihmisilläA2 on huomattavaa halua etsiä selityksiä B1uskonnonB2 kautta;  A1ihmisetA2 ovat ainoa eläinlaji, jonka tiedetään käyttävän B1vaatetustaB2;  A1ihmiseenA2 liittyvä elinympäristö ja väestö vaikuttavat B1talojenB2 olemukseen;  A1ihmisenA2 kehossa on B1happeaB2 25,5 prosenttia;  B1onnellisuusB2 on A1ihmisenA2 tunnetila;  A1ihmisenA2 parhaana olotilana pidetään henkistä ja fyysistä B1terveyttäB2;  A1ihmisenA2 myönteisiin tunnekokemuksiin kuuluu B1rakkausB2;  A1ihmistenA2 asuttamat valtiot kilpailevat voimavaroista joskus käyden B1sotiaB2;  A1ihmisenA2 harjoittamaan taiteeseen liittyy B1musiikkiB2;</p>
<p>Page 17:  A1kuolemaA2 on biologisen B1eliönB2 elämän päättymisenä;  eliön A1kuolemaanA2 voivat vaikuttaa useat tekijät mukaan lukien B1sairaudetB2;  aikoinaan A1kuolemaA2 määriteltiin B1sydämenB2 löynnin pysähtymisenä;  A1kuolemaanA2 liittyvä elimistön tasapainon menetys aiheuttaa B1hapenB2 puutetta;  syitä A1kuolemaanA2 voidaan lykätä B1ravinnollaB2;  B1sotaaB2 voidaan pitää tilanteena, jossa A1kuolemaA2 saa ehdottoman aseman;</p>
<p>Page 18:  A1vedenA2 ainesosat vety ja B1happiB2 ovat yleisimpien aineiden joukossa maailmankaikkeudessa;  A1vedenA2 esiintyminen on välttämätöntä elämän olemassaololle maan päällä, kuten B1eliöilleB2;  maapallo sijaitsee B1auringostaB2 etäisyydellä, joka mahdollistaa A1vedelleA2 kolme olomuotoa;  nestemäistä A1vettäA2 esiintyy vesistöissä, kuten B1meressäB2;  A1vesiA2 kulkee maanperän ja ilmakehän välillä mm. B1kasvienB2 kautta;  A1vedenA2 varastointi on tärkeää, sillä se on olennaista B1ihmisenB2 elämälle;  B1biologianB2 mukaan A1vedelläA2 on useita erityisominaisuuksia elämän edistämiseksi;</p>
<p>Page 19:  A1perheeseenA2 liittyen B1äitiB2 on naispuolinen vanhempi;  A1perheeseenA2 liittyen B1isäB2 on miespuolinen vanhempi;  A1perheessäA2 henkilön B1sisarusB2 on lapsi, jolla on samat vanhemmat;  A1perheA2 auttaa B1lastaB2 suuntautumaan sosiaalisesti;  myös A1perhettäA2 koskevan ihmisoikeuksien julistuksen mukaan kaikilla on oikeus B1vapaa-aikaanB2;</p>
<p>Page 20:  A1luontoonA2 liittyen osa maapallosta on enemmän altistettuna B1auringonB2 säteille;  A1luonnossaA2 B1eliöitäB2 koskeva elämä ilmenee biologisesti mm. järjestäytymisenä;  A1luonnossaA2 eliöille, kuten B1kasveilleB2, yleisiä ominaisuuksia on koostuminen soluista;  A1luontoonA2 liittyen eliöille, kuten B1eläimilleB2, yleisiä ominaisuuksia on koostuminen soluista;  A1luonnossaA2 B1biologiallaB2 on keskeinen merkitys elämälle;  A1luonnossaA2 erämaana pidetään ympäristöä, jota B1ihminenB2 ei ole suoraan muokannut;</p>



(empty on purpose)

## Appendix X

This is a listing of background characteristics of members of experiment group (n=49) and control group (n=24) as discussed in Subchapter 10.2. For four questions the student replied by selecting a most suitable answer from a scale of five given alternatives that are listed here next.

*Response alternatives for question “If you compare to traditional learning from a book, then the method you have just tried for adopting knowledge through reading appears to be...”:*

Much more useful; Somewhat more useful; Equally useful; Somewhat less useful; or Much less useful.

(In Finnish: Jos vertaat perinteiseen kirjasta opiskeluun, niin äsken kokeilemasi menetelmä luetun omaksumiseen vaikuttaa... Paljon hyödyllisemmältä; Jonkin verran hyödyllisemmältä; Yhtä hyödylliseltä; Jonkin verran hyödyttömämmältä; tai Paljon hyödyttömämmältä.)

*Response alternatives for question “As a student are you interested in using the method you just tried for adoption of knowledge through reading?”:*

It is very probable; It is probable; Perhaps; It is improbable; or It is very improbable.

(In Finnish: Opiskelijana oletko kiinnostunut käyttämään äsken kokeilemaasi menetelmää luetun omaksumiseen? Erittäin todennäköisesti; Todennäköisesti; Ehkä; Epätodennäköisesti; tai Erittäin epätodennäköisesti.)

*Response alternatives for question “How easy it is for you to adopt new knowledge through reading?”:*

Very easy; Easy; Moderate; Difficult; or Very difficult.

(In Finnish: Kuinka helppoa sinulle itsellesi on omaksua uutta asiaa lukemalla? Erittäin helppoa; Helppoa; Kohtalaista; Vaikeaa; tai Erittäin vaikeaa.)

*Response alternatives for question “In your opinion, how succesfully do you perform at school?”:*

Excellently; Well; Satisfactorily; Fairly; or Faintly.

(In Finnish: Kuinka hyvin mielestäsi menestyt koulussa? Erinomaisesti; Hyvin; Tyydyttävästi; Välttävästi; tai Heikosti.)

Background characteristics of members of experiment group (n=49), see Subchapter 10.2 for details:

Unique identifier for each member of experiment group	Age	Gender	Response to question: “If you compare to traditional learning from a book, then the method you have just tried for adopting knowledge through reading appears to be...”	Response to question: “As a student are you interested in using the method you just tried for adoption of knowledge through reading?”	Response to question “How easy it is for you to adopt new knowledge through reading?”	Response to question “In your opinion, how succesfully do you perform at school?”
E1	17	Female	Equally useful	Perhaps	Very easy	Well
E2	18	Female	Somewhat less useful	Perhaps	Moderate	Satisfactorily
E3	18	Male	Somewhat more useful	It is probable	Easy	Satisfactorily
E4	18	Female	Somewhat more useful	It is probable	Moderate	Satisfactorily
E5	17	Male	Somewhat less	It is probable	Moderate	Well

			useful			
E6	17	Male	Somewhat more useful	It is probable	Difficult	Satisfactorily
E7	18	Female	Somewhat more useful	It is probable	Very easy	Excellently
E8	18	Female	Somewhat more useful	Perhaps	Moderate	Well
E9	18	Female	Somewhat more useful	Perhaps	Easy	Well
E10	17	Female	Somewhat more useful	It is probable	Easy	Well
E11	17	Male	Much more useful	Perhaps	Difficult	Satisfactorily
E12	19	Male	Somewhat more useful	Perhaps	Easy	Satisfactorily
E13	17	Male	Somewhat more useful	It is probable	Easy	Satisfactorily
E14	17	Male	Somewhat more useful	It is probable	Moderate	Excellently
E15	18	Female	Somewhat more useful	It is very probable	Moderate	Satisfactorily
E16	17	Male	Somewhat less useful	It is probable	Moderate	Satisfactorily
E17	16	Male	Much more useful	It is very improbable	Very easy	Excellently
E18	17	Male	Much more useful	It is very probable	Moderate	Fairly
E19	16	Female	Equally useful	Perhaps	Moderate	Well
E20	17	Female	Somewhat more useful	Perhaps	Easy	Satisfactorily
E21	18	Male	Somewhat more useful	Perhaps	Difficult	Satisfactorily
E22	17	Male	Much more useful	It is probable	Moderate	Satisfactorily
E23	17	Female	Equally useful	Perhaps	Easy	Well
E24	17	Female	Somewhat less useful	Perhaps	Difficult	Well
E25	16	Male	Equally useful	Perhaps	Easy	Satisfactorily
E26	16	Female	Equally useful	It is probable	Easy	Fairly
E27	17	Female	Somewhat more useful	It is probable	Easy	Satisfactorily
E28	17	Male	Equally useful	Perhaps	Easy	Excellently
E29	16	Female	Equally useful	It is probable	Easy	Satisfactorily
E30	18	Female	Equally useful	Perhaps	Moderate	Fairly
E31	17	Female	Equally useful	Perhaps	Moderate	Satisfactorily
E32	17	Female	Somewhat more useful	It is probable	Moderate	Well
E33	16	Female	Somewhat more useful	It is probable	Easy	Satisfactorily
E34	18	Female	Equally useful	Perhaps	Easy	Well
E35	17	Male	Equally useful	It is improbable	Easy	Satisfactorily
E36	19	Female	Equally useful	Perhaps	Very difficult	Well
E37	17	Female	Somewhat more useful	Perhaps	Moderate	Well
E38	17	Female	Equally useful	Perhaps	Easy	Well
E39	19	Male	Somewhat less useful	It is probable	Moderate	Satisfactorily
E40	18	Female	Somewhat more useful	It is very probable	Easy	Well
E41	17	Female	Somewhat more useful	It is probable	Difficult	Well
E42	18	Male	Somewhat more	It is probable	Easy	Satisfactorily

			useful			
E43	17	Female	Somewhat more useful	Perhaps	Easy	Excellently
E44	17	Female	Somewhat less useful	It is improbable	Moderate	Well
E45	19	Female	Somewhat more useful	It is very probable	Moderate	Well
E46	17	Female	Much less useful	It is very improbable	Easy	Well
E47	18	Male	Equally useful	It is probable	Moderate	Satisfactorily
E48	19	Female	Equally useful	It is probable	Very difficult	Fairly
E49	19	Female	Somewhat more useful	Perhaps	Easy	Satisfactorily

Background characteristics of members of control group (n=24), see Subchapter 10.2 for details (please note that member C10, as indicated in the listing with an asterisk (\*), provided an unrealistic age of 82 years that we ignored in analysis and thus reliability of also other answers of member C10 should possibly be considered cautiously):

<i>Unique identifier for each member of control group</i>	<i>Age (N/A = not available)</i>	<i>Gender</i>	<i>Response to question: "If you compare to traditional learning from a book, then the method you have just tried for adopting knowledge through reading appears to be..."</i>	<i>Response to question: "As a student are you interested in using the method you just tried for adoption of knowledge through reading?"</i>	<i>Response to question "How easy it is for you to adopt new knowledge through reading?"</i>	<i>Response to question "In your opinion, how successfully do you perform at school?"</i>
C1	17	Female	Equally useful	Perhaps	Moderate	Satisfactorily
C2	17	Female	Much less useful	It is very improbable	Moderate	Excellently
C3	18	Female	Equally useful	Perhaps	Easy	Well
C4	17	Female	Somewhat less useful	It is improbable	Moderate	Well
C5	18	Male	Equally useful	Perhaps	Moderate	Satisfactorily
C6	19	Male	Equally useful	Perhaps	Moderate	Satisfactorily
C7	20	Female	Somewhat more useful	Perhaps	Easy	Satisfactorily
C8	19	Female	Equally useful	Perhaps	Moderate	Well
C9	19	Male	Somewhat more useful	It is very probable	Moderate	Satisfactorily
C10 *	N/A *	Male	Equally useful	Perhaps	Moderate	Well
C11	16	Female	Equally useful	It is probable	Easy	Well
C12	17	Male	Much more useful	It is probable	Moderate	Satisfactorily
C13	17	Male	Somewhat more useful	It is probable	Difficult	Well
C14	16	Male	Somewhat more useful	Perhaps	Moderate	Well
C15	17	Male	Somewhat less useful	Perhaps	Easy	Satisfactorily
C16	17	Female	Somewhat more useful	Perhaps	Moderate	Satisfactorily
C17	16	Male	Much more useful	It is very probable	Easy	Satisfactorily
C18	16	Female	Equally useful	It is improbable	Moderate	Well
C19	17	Male	Equally useful	Perhaps	Moderate	Satisfactorily
C20	17	Male	Somewhat less	It is very	Very easy	Well

			useful	improbable		
C21	19	Female	Somewhat more useful	It is improbable	Moderate	Satisfactorily
C22	18	Female	Equally useful	It is improbable	Easy	Satisfactorily
C23	17	Female	Somewhat less useful	Perhaps	Difficult	Satisfactorily
C24	19	Male	Somewhat less useful	It is improbable	Moderate	Satisfactorily

## Appendix Y

As discussed in Subchapter 10.2 we compared two learning cases by asking an experiment group (n=49) and a control group (n=24) to perform an exploration task.

### *Exploration task of experiment group*

Each member of the experiment group (n=49) was allowed to browse freely following their intuition in the conceptual network for twenty steps and the following listing mentions for each member of experiment group the exploration of twenty steps. This exploration task was carried in “hyperlink network of 55 concepts” (see Appendix J) starting from concept Human.

<i>Unique identifier for each member of experiment group (these identifiers correspond to those used in Appendix X)</i>	<i>Exploration path of twenty steps</i>
E1	Human->Animal->Nature->Plant->Light->Sun->Plant->Tree->Oxygen->Water->Sea->Water->Travel->Water->Biology->Organism->Biology->Nature->Sun->Oxygen->Oxygen->Disease
E2	Human->Health->Disease->Death->Disease->Death->Human->Family->Sibling->Love->Emotion->Happiness->Emotion->Love->Family->Mother->Parent->Birth->Animal->Human->Human->Love
E3	Human->Clothing->Religion->Human->House->Home->Family->Child->Adolescence->Education->School->Teacher->Learning->Experience->Learning->Education->Adolescence->Old_age->Death->Disease->Disease->Death
E4	Human->Diet_(nutrition)->Health->Biology->Human->Family->Mother->Love->Emotion->Happiness->Emotion->Experience->Emotion->Love->Friendship->Adolescence->Education->Learning->Education->Teacher->Teacher->Learning
E5	Human->Diet_(nutrition)->Health->Disease->Death->Disease->Death->War->Peace->Education->Learning->Education->Adolescence->Television->Adolescence->Education->Human->Love->Happiness->Joy->Joy->Happiness
E6	Human->Diet_(nutrition)->Health->Disease->Death->Disease->Death->War->Peace->Education->Learning->Experience->Learning->Education->School->Teacher->Learning->Teacher->School->Education->Education->Leisure
E7	Human->War->Peace->Education->Learning->Experience->Learning->Education->Adolescence->Old_age->Death->Disease->Death->Heart->Death->Oxygen->Plant->Biology->Organism->Biology->Biology->Animal
E8	Human->Health->Diet_(nutrition)->Health->Food->Human->Family->Mother->Love->Emotion->Happiness->Joy->Happiness->Emotion->Experience->Emotion->Love->Friendship->Adolescence->Education->Education->Learning
E9	Human->Family->Child->Family->Sibling->Love->Emotion->Experience->Emotion->Love->Friendship->Adolescence->Education->Learning->Education->Teacher->School->Education->Leisure->Work->Work->Leisure
E10	Human->Adolescence->Education->Biology->Animal->Human->Happiness->Emotion->Love->Family->Mother->Parent->Birth->Death->Heart->Death->Organism->Biology->Nature->Oxygen->Oxygen->Water
E11	Human->Family->Mother->Parent->Sibling->Love->Emotion->Experience->Emotion->Happiness->Joy->Happiness->Emotion->Love->Happiness->Love->Biology->Animal->Nature->Organism->Organism->Heart
E12	Human->Emotion->Experience->Emotion->Love->Happiness->Emotion->Joy->Happiness-

	>Joy->Happiness->Joy->Emotion->Happiness->Emotion->Happiness->Love->Friendship->Animal->Nature->Nature->Human
E13	Human->Oxygen->Plant->Biology->Human->Happiness->Joy->Happiness->Emotion->Experience->Emotion->Love->Family->Father->Sibling->Parent->Sibling->Love->Happiness->Love->Love->Biology
E14	Human->Diet_(nutrition)->Health->Diet_(nutrition)->Organism->Heart->Organism->Biology->Plant->Water->Oxygen->Plant->Nature->Animal->Water->Sun->Plant->Tree->Water->Travel->Travel->Water
E15	Human->Family->Sibling->Love->Happiness->Emotion->Love->Friendship->Adolescence->Education->Leisure->Television->Leisure->Work->Leisure->Family->Mother->Parent->Father->Love->Love->Emotion
E16	Human->Diet_(nutrition)->Organism->Biology->Animal->Nature->Sun->Oxygen->Water->Human->War->Disease->Death->Heart->Death->Organism->Plant->Tree->Oxygen->Disease->Disease->Oxygen
E17	Human->Diet_(nutrition)->Health->Diet_(nutrition)->Religion->God->Father->Family->Father->Mother->Parent->Mother->Love->Friendship->Animal->Organism->Plant->Nature->Oxygen->Sun->Sun->Plant
E18	Human->Religion->Sun->Oxygen->Automobile->Oxygen->Sun->Plant->Tree->Oxygen->Plant->Animal->Oxygen->Water->Travel->Water->Plant->Nature->Animal->Nature->Nature->Human
E19	Human->Emotion->Love->Emotion->Experience->Emotion->Joy->Happiness->Emotion->Happiness->Joy->Happiness->Emotion->Happiness->Joy->Emotion->Love->Friendship->Adolescence->Education->Education->School
E20	Human->Diet_(nutrition)->Death->War->Religion->God->Father->Love->Happiness->Emotion->Experience->Emotion->Joy->Happiness->Joy->Happiness->Joy->Emotion->Love->Friendship->Friendship->Adolescence
E21	Human->Health->Disease->Death->Organism->Biology->Animal->Organism->Heart->Organism->Plant->Light->Sun->Oxygen->Automobile->Oxygen->Water->Sea->Water->Oxygen->Oxygen->Sun
E22	Human->Diet_(nutrition)->Death->Oxygen->Water->Sea->Water->Sun->Plant->Light->Television->Light->Sun->Oxygen->Disease->Death->War->Peace->War->Religion->Religion->Sun
E23	Human->Emotion->Happiness->Emotion->Love->Friendship->Love->Family->Mother->Father->Parent->Child->Adolescence->Education->Learning->Experience->Learning->Education->Leisure->Work->Work->Leisure
E24	Human->Adolescence->Education->Learning->Education->Adolescence->Television->Adolescence->Child->Family->Mother->Parent->Father->Family->Father->Mother->Love->Emotion->Joy->Happiness->Happiness->Emotion
E25	Human->Adolescence->Child->Adolescence->Education->Human->Family->Mother->Father->Love->Family->Sibling->Family->Leisure->Work->Leisure->Education->Teacher->Learning->Education->Education->Learning
E26	Human->Diet_(nutrition)->Health->Disease->Death->Heart->Death->Human->Happiness->Joy->Happiness->Emotion->Experience->Emotion->Love->Emotion->Happiness->Emotion->Joy->Emotion->Emotion->Love
E27	Human->Diet_(nutrition)->Health->Disease->Death->War->Peace->Education->Leisure->Family->Child->Adolescence->Education->School->Education->Sibling->Love->Happiness->Joy->Happiness->Happiness->Emotion
E28	Human->Religion->Human->Emotion->Experience->Emotion->Happiness->Joy->Happiness->Emotion->Joy->Emotion->Love->Friendship->Adolescence->Child->Parent->Human->War->Peace->Peace->Education
E29	Human->Religion->Human->War->Disease->Death->Disease->Death->Organism->Biology->Nature->Plant->Oxygen->Water->Sea->Water->Sun->Plant->Tree->Oxygen->Oxygen->Heart
E30	Human->Emotion->Experience->Emotion->Love->Family->Leisure->Family->Child->Family->Mother->Family->Father->Family->Sibling->Parent->Human->Diet_(nutrition)->Organism->Plant->Plant->Nature
E31	Human->Diet_(nutrition)->Health->Biology->Health->Disease->Death->Human->Adolescence->Education->Learning->Education->School->Teacher->Learning->Experience->Learning->Teacher->School->Education->Education->Human
E32	Human->Adolescence->Old_age->Adolescence->Television->Adolescence->Child->Family->Child->Leisure->Family->Mother->Parent->Human->Health->Disease->Death->Human->Family->Leisure->Leisure->Sibling
E33	Human->Diet_(nutrition)->Health->Biology->Animal->Human->Happiness->Joy->Happiness->Emotion->Love->Friendship->Adolescence->Education->Learning->Experience->Learning-

	>Education->Leisure->Sibling->Sibling->Family
E34	Human->Emotion->Experience->Emotion->Love->Happiness->Emotion->Joy->Happiness->Joy->Happiness->Joy->Emotion->Happiness->Emotion->Happiness->Love->Biology->Organism->Biology->Biology->Human
E35	Human->Diet_(nutrition)->Organism->Heart->Organism->Biology->Health->Diet_(nutrition)->Death->Human->Health->Disease->Death->War->Peace->Education->School->Teacher->Education->Human->Human->Music
E36	Human->Happiness->Emotion->Love->Family->Leisure->Work->Leisure->Education->Adolescence->Child->Old_age->Death->War->Disease->Death->Heart->Death->Disease->Death->Death->Human
E37	Human->Adolescence->Child->Parent->Birth->Animal->Organism->Biology->Organism->Heart->Organism->Plant->Organism->Plant->Light->Sun->Oxygen->Plant->Animal->Human->Human->Clothing
E38	Human->Adolescence->Child->Family->Mother->Parent->Birth->Animal->Organism->Biology->Nature->Organism->Plant->Water->Sea->Water->Oxygen->Plant->Organism->Heart->Heart->Organism
E39	Human->Diet_(nutrition)->Organism->Biology->Nature->Human->Oxygen->Water->Biology->Organism->Plant->Water->Sea->Water->Plant->Light->Sun->Plant->Tree->Water->Water->Sun
E40	Human->House->Home->Family->Sibling->Parent->Birth->Mother->Love->Happiness->Emotion->Experience->Emotion->Joy->Happiness->Joy->Happiness->Joy->Emotion->Love->Love->Friendship
E41	Human->Adolescence->Education->Learning->Education->Teacher->School->Education->Adolescence->Child->Family->Mother->Love->Emotion->Joy->Happiness->Emotion->Love->Friendship->Adolescence->Adolescence->Old_age
E42	Human->Love->Happiness->Joy->Happiness->Emotion->Experience->Emotion->Love->Friendship->Love->Family->Child->Parent->Human->Clothing->Television->Clothing->Religion->God->God->Father
E43	Human->Health->Disease->Death->Organism->Biology->Nature->Human->Happiness->Emotion->Experience->Emotion->Love->Biology->Human->Diet_(nutrition)->Health->Biology->Plant->Light->Light->Television
E44	Human->Diet_(nutrition)->Organism->Biology->Nature->Plant->Oxygen->Water->Sea->Water->Plant->Tree->Oxygen->Plant->Nature->Animal->Human->Health->Disease->Death->Death->Disease
E45	Human->War->Religion->God->Father->Parent->Child->Adolescence->Education->Learning->Education->Teacher->Learning->Experience->Learning->Teacher->School->Education->Biology->Organism->Organism->Heart
E46	Human->Diet_(nutrition)->Health->Biology->Nature->Organism->Biology->Human->Family->Sibling->Love->Friendship->Adolescence->Education->Learning->Experience->Learning->Education->Human->Emotion->Emotion->Experience
E47	Human->Diet_(nutrition)->Health->Disease->Death->Organism->Heart->Organism->Biology->Animal->Human->Adolescence->Child->Parent->Human->Emotion->Experience->Emotion->Joy->Happiness->Happiness->Joy
E48	Human->Health->Disease->Death->War->Peace->War->Religion->God->Father->Love->Happiness->Joy->Happiness->Emotion->Experience->Emotion->Happiness->Emotion->Love->Love->Friendship
E49	Human->Emotion->Experience->Emotion->Joy->Happiness->Emotion->Love->Biology->Nature->Sun->Plant->Organism->Biology->Organism->Plant->Nature->Animal->Nature->Oxygen->Oxygen->Heart



Following list mentions for each member of the experiment group (n=49) recalled hyperlinked concepts. Here hyperlinked concepts supplied with an asterisk (\*) belong to hyperlinked concepts that have been actively selected by the student during exploration task and other hyperlinked concepts have been just shown to the student during exploration task.

Unique identifier for each member of experiment group (these identifiers correspond to those used in Appendix X)	Recalled hyperlinked concepts (hyperlinked concepts supplied with an asterisk (*) belong to hyperlinked concepts that have been actively selected by the student)
E1	Animal*; Biology; Disease*; Human; Organism*; Oxygen; Plant; Sea*; Sun; Travel*; Tree*; Water;
E2	Animal*; Death; Disease; Emotion; Family; Father; God; Happiness*; Human; Love; Mother*; Religion; Sibling*;
E3	Adolescence; Child*; Death; Disease*; Education; Family*; Home*; House*; Human*; Religion*; School*; Teacher*; Television;
E4	Biology*; Education; Family*; Father; Happiness*; Joy; Love; Mother*; Organism; School; Sibling;
E5	Adolescence; Diet_(nutrition)*; Family; Happiness; Health*; Joy*; Love*; Old_age; Peace*; War*;
E6	Disease; Education; Health*; Human; Learning; Peace*; School; Teacher; War*;
E7	Adolescence*; Animal*; Biology; Child; Death; Disease*; Heart*; Human; Old_age*; Organism*; Oxygen*; Peace*; Plant*; Tree; War*; Water;
E8	Adolescence*; Biology; Diet_(nutrition)*; Education*; Emotion; Family*; Friendship*; Happiness; Health; Human*; Joy*; Love; Mother*; School;
E9	Adolescence*; Biology; Child*; Diet_(nutrition); Education; Emotion; Experience*; Family; Father; Human; Joy; Learning*; Leisure; Love; Mother; Oxygen; School*; Sibling*; Teacher*; Television; Work*;
E10	Biology; Birth*; Death; Emotion*; Father; Happiness*; Heart*; Human*; Love*; Mother*; Nature*; Organism*; Oxygen*; Parent*; Plant; Sibling; Sun; Water*;
E11	Family*; Happiness; Joy*; Love; Mother*; Nature*; Organism*;
E12	Animal*; Biology; Emotion; Friendship*; Happiness; Joy; Love; Nature*; Oxygen; Plant; Religion;
E13	Adolescence; Biology; Emotion; Father*; Happiness; Joy*; Love; Sibling;
E14	Animal*; Biology*; Human; Organism; Travel*; Tree*; Water;
E15	Biology; Education*; Emotion; Family; Father*; Friendship*; Happiness*; Health; Joy; Leisure; Love; Mother*; Religion; Sibling*; Work*;
E16	Animal*; Biology*; Death; Disease; Human*; Organism; Oxygen; Plant*; Sun*; Tree*; Water*;
E17	Animal*; Father; Food; God*; Health*; Mother; Nature*; Plant; Religion*; Sun*;
E18	Animal; Automobile*; Biology; God; Light; Oxygen; Sun; Travel*; Tree*; Water;
E19	Adolescence*; Education*; Emotion; Family; Happiness; Human; Joy; Leisure; Love; School*; Teacher;
E20	Adolescence*; Death*; Diet_(nutrition)*; Disease; Emotion; Family; Father*; Friendship*; God*; Happiness; Human; Joy; Love; Mother; Oxygen; Peace; War*;
E21	Automobile*; Biology*; Heart*; Human; Organism; Oxygen; Plant*; Sea*; Sun; Water;
E22	Death; Disease*; God; Oxygen; Peace*; Religion*; War; Water;
E23	Birth; Education; Emotion; Experience*; Family*; Father*; Happiness*; Joy; Learning; Leisure; Love; Mother*; Sibling; Television; Work*;
E24	Emotion; Family; Father; Joy*; Love*; Mother; Parent*;
E25	Biology; Education; Father*; Leisure; Mother*; School; Sibling*; Teacher*; Television;
E26	Emotion; Happiness; Human*; Joy; Love;
E27	Adolescence*; Death*; Emotion*; Family*; Happiness; Health*; Leisure*; Love*; Peace*; School*; Sibling*; War*;
E28	Child*; Emotion; Happiness; Human; Joy; Parent*; Peace*; Religion*; War*;
E29	Biology*; Death; Disease; Emotion; God; Heart*; Love; Organism*; Oxygen; Plant; Religion*; Sun*; Tree*; War*; Water;

E30	
E31	Adolescence*; Child; Education; Family; Human; Learning; Old_age; School; Teacher;
E32	Adolescence; Death*; Disease*; Family; Health*; Human; Leisure; Old_age*;
E33	Animal*; Biology*; Education; Emotion*; Family*; Friendship*; Happiness; Human*; Joy*; Learning; Love*; Sibling*;
E34	Animal; Biology; Emotion; Family; Friendship; Happiness; Health; Heart; Human*; Joy; Love; Nature; Organism*; Plant;
E35	Biology*; Education; Food; Health; Human; Music*; Organism; Peace*; School*; Teacher*; War*;
E36	Adolescence*; Child*; Death; Diet_(nutrition); Disease; Emotion*; Family*; God; Health; Human*; Music; Old_age*; Religion; Sibling;
E37	Animal; Clothing*; Human*;
E38	Child*; Father; Heart*; Human; Mother*; Nature*; Organism; Oxygen*; Parent*; Plant; Sea*; Sibling; Sun; Tree; Water;
E39	Biology; Human*; Organism; Oxygen*; Plant; Sea*; Sun; Tree*; Water;
E40	Birth*; Emotion; Family*; Father; Friendship*; Happiness; Home*; House*; Joy; Love; Mother*; Sibling*;
E41	Adolescence; Child*; Education; Family*; Friendship*; Happiness*; Joy*; Learning*; Love; Mother*; Old_age*; School*; Teacher*;
E42	Emotion; Family*; Father*; God*; Happiness; Love;
E43	Adolescence; Animal; Biology; Diet_(nutrition)*; Emotion; Happiness*; Health; Human; Light*; Music; Old_age; Organism*; Religion; Sun; Television*;
E44	Animal*; Death*; Disease; Health*; Heart; Human*; Nature; Organism*; Oxygen; Plant; Sun; Tree*; War; Water;
E45	Biology*; Child*; Education; Father*; God*; Health; Heart*; Human; Learning; Mother; Old_age; Organism*; Parent*; Peace; Religion*; School*; Teacher; War*;
E46	Adolescence*; Biology; Child; Education; Emotion*; Family*; Father; Love*; Mother; Old_age; Organism*; School; Sibling*; Teacher; Television;
E47	Adolescence*; Animal*; Biology*; Emotion; Family; Human; Joy; Old_age; Organism; Parent*; Religion;
E48	Death*; Emotion; Family; Father*; Friendship*; God*; Joy*; Love; Mother; Nature; Religion*;
E49	Animal*; Emotion; Experience*; Happiness*; Heart*; Love*; Nature; Organism; Oxygen*; Plant; Sun*;

### *Exploration task of control group*

During exploration task of control group originally 42 unique hyperlinked concepts were shown to each student and when considering repeated exposure of some hyperlinked concepts for control group originally on average 148 hyperlinked concepts were shown to each student meaning originally on average 3.52 occurrences of each unique hyperlinked concept. As explained in Subchapter 10.2, to make conceptual exposure of experiment group and control group more matching to enable more reliable comparison about the process of exploration tasks and suggested educational benefits gained with these exploration tasks we decided in following analysis to consider for control group only conceptual exposure concerning 34 most occurring unique hyperlinked concepts in exploration tasks of control group (when excluding eight hyperlinked concepts there were hyperlinked concepts having shared number of occurrences and here excluded hyperlinked concepts were selected in decreasing alphabetic order). Thus following analysis relies on such observation that during exploration task of control group (24 persons) 34 unique hyperlinked concepts were shown to each student and after the experiment student could recall on average 11.21 unique hyperlinked concepts (about 33.0 percent) of them. When considering repeated exposure of some hyperlinked concepts for control group on average 137 hyperlinked concepts were shown to each student meaning on average 4.03 occurrences of each unique hyperlinked concept.

When we decided in the following analysis to consider for control group only conceptual exposure concerning 34 most occurring unique hyperlinked concepts in exploration tasks of control group the original set of 42 unique hyperlinked concepts with occurrences in parenthesis were: Biology (10),

Oxygen (9), Human (8), Organism (8), Adolescence (7), Family (7), Leisure (6), Sibling (6), Animal (5), Child (5), Plant (5), Diet\_(nutrition) (4), Old\_age (4), Sun (4), War (4), Water (4), Disease (3), Emotion (3), Happiness (3), Heart (3), Religion (3), Clothing (2), Education (2), Father (2), God (2), Health (2), House (2), Learning (2), Light (2), Love (2), Mother (2), Music (2), Parent (2), School (2), Sea (2), Teacher (2), Tree (2), Automobile (1), Death (1), Friendship (1), Nature (1) and Travel (1). In the following analysis to consider for control group only conceptual exposure concerning 34 unique hyperlinked concepts we excluded these eight hyperlinked concepts: Sea, Teacher, Tree, Automobile, Death, Friendship, Nature and Travel (for hyperlinked concepts having shared number of occurrences (two occurrences) we excluded hyperlinked concepts in decreasing alphabetic order).

Following list mentions for each member of the control group (n=24) recalled hyperlinked concepts among all 42 unique hyperlinked concepts that were originally shown to each student. Here hyperlinked concepts supplied with an asterisk (\*) belong to the original set of 42 unique hyperlinked concepts but do not belong to the final more limited set of 34 unique hyperlinked concepts, and thus hyperlinked concepts not supplied with an asterisk (\*) belong to the set of 34 unique hyperlinked concepts that were used in our further analysis as discussed in Subchapter 10.2.

<i>Unique identifier for each member of control group (these identifiers corresponds to those used in Appendix X)</i>	<i>Recalled hyperlinked concepts (hyperlinked concepts supplied with an asterisk (*) belong to the original set of 42 unique hyperlinked concepts but do not belong to the final more limited set of 34 unique hyperlinked concepts, and thus hyperlinked concepts not supplied with an asterisk (*) belong to the set of 34 unique hyperlinked concepts that were used in our further analysis)</i>
C1	Adolescence; Animal; Biology; Education; Father; Leisure; Mother; Music; Old_age; Organism; Oxygen; Sibling; Sun; War; Water;
C2	Adolescence; Animal; Biology; Child; Diet_(nutrition); Father; Happiness; Health; Learning; Mother; Old_age; Organism; Oxygen; Plant; Religion; School; Sea*; Sibling; Sun; War;
C3	Adolescence; Animal; Diet_(nutrition); Emotion; Father; Friendship*; God; Leisure; Love; Mother; Old_age; Organism; Religion; Sibling; Sun; Water;
C4	Adolescence; Animal; Father; Human; Mother; Old_age; Organism; Oxygen; Parent; Plant; Sibling;
C5	Adolescence; Child; Family; Father; Leisure; Mother; Old_age; Oxygen; Religion; War; Water;
C6	Biology; Child; Education; Family; Father; Human; Learning; Mother; Nature*; Oxygen;
C7	Adolescence; Diet_(nutrition); Father; Human; Leisure; Mother; Old_age; Organism; Oxygen; Sibling;
C8	Biology; Child; Diet_(nutrition); Emotion; Human; Old_age; Organism; Religion;
C9	Adolescence; Automobile*; Biology; Child; Clothing; Diet_(nutrition); Heart; Learning; Organism; Oxygen;
C10	Automobile*; Biology; Child; Happiness; Heart; Learning; Leisure; Light; Organism; Oxygen; Tree*;
C11	Animal; Biology; Child; Death*; Education; Family; Father; Happiness; Leisure; Mother; Organism; Oxygen; Tree*;
C12	Death*; Diet_(nutrition); Family; Health; Leisure; Old_age; Religion; War; Water;
C13	Biology; Diet_(nutrition); Father; Happiness; Health; Heart; House; Human; Love; Mother; Music; Organism; Oxygen; Plant; Religion; Sea*; Sibling; Tree*;
C14	Clothing; Death*; Family; Health; Oxygen; Water;
C15	Adolescence; Animal; Death*; God; Human; Love; Old_age; Oxygen; Religion; War; Water;
C16	Biology; Emotion; Father; Leisure; Love; Mother; Organism; Sibling; Sun; War;
C17	Biology; Child; Father; Human; Mother; Oxygen; Plant; Religion; School; Sibling;
C18	Adolescence; Animal; Child; Death*; Diet_(nutrition); Emotion; Father; Leisure; Mother; Music; Old_age; Oxygen; Sibling; Water;

C19	Adolescence; Biology; Death*; Father; Learning; Leisure; Mother; Sibling;
C20	Adolescence; Animal; Biology; Child; Family; Father; Mother; Old_age; Organism; Oxygen; Religion; Sibling;
C21	Adolescence; Child; Diet_(nutrition); Emotion; Father; Health; Learning; Leisure; Light; Mother; Music; Old_age; Organism; Religion; School; Sibling; War;
C22	Animal; Death*; Diet_(nutrition); Family; Father; Leisure; Mother; Organism; Oxygen; Plant; Sibling; War; Water;
C23	Adolescence; Child; Death*; Diet_(nutrition); Education; Family; Home; Human; Nature*; Old_age; Sibling; War; Water;
C24	Adolescence; Death*; Family; Father; Health; Heart; Mother; Old_age; Organism; Oxygen; Sibling; War; Water;

(empty on purpose)

## Appendix Z

Based on exploration task of experiment group (n=49), as discussed in Subchapter 10.2, this listing enables comparison of 55 concepts of “hyperlink network of 55 concepts” between number of unique recalled concepts in respect to hypelinked concepts that are actively selected by the student during exploration and number of unique recalled concepts in respect to hypelinked concepts that are shown (i.e. not necessarily actively selected but shown) to the student during exploration.

This listing can be contrasted with Table 10.9 that shows comparison of 55 concepts of “hyperlink network of 55 concepts” between number of times hyperlinked concepts are shown to student during exploration, number of unique recalled concepts in respect to hypelinked concepts that are actively selected by the student during exploration and number of unique encountered (actively selected) hyperlinked concepts during exploration.

Number of unique recalled concepts in respect to hypelinked concepts that are actively selected by the student during her traversal of exploration path of 20 steps of <i>experiment group</i> (n=49)			Number of unique recalled concepts in respect to hypelinked concepts that are shown (i.e. not necessarily actively selected but shown) to the student during her traversal of exploration path of 20 steps of <i>experiment group</i> (n=49)		
<i>Concept</i>	<i>Number of unique recalled selected concepts by all students</i>	<i>Average number of unique recalled selected concepts per each student</i>	<i>Concept</i>	<i>Number of unique recalled shown concepts by all students</i>	<i>Average number of unique recalled shown concepts per each student</i>
Emotion	24	0.489795918	Human	28	0.571428571
Love	24	0.489795918	Emotion	25	0.510204082
Happiness	22	0.448979592	Love	25	0.510204082
Human	18	0.367346939	Family	24	0.489795918
Organism	18	0.367346939	Biology	23	0.469387755
Biology	17	0.346938776	Happiness	22	0.448979592
Family	17	0.346938776	Joy	20	0.408163265
Joy	16	0.326530612	Organism	19	0.387755102
Education	15	0.306122449	Mother	18	0.367346939
Adolescence	14	0.285714286	Father	17	0.346938776
Animal	13	0.265306122	Adolescence	16	0.326530612
Death	13	0.265306122	Animal	15	0.306122449
Mother	13	0.265306122	Education	15	0.306122449
Oxygen	12	0.244897959	Oxygen	15	0.306122449
Disease	11	0.22489796	Sibling	14	0.285714286
Water	11	0.22489796	Death	13	0.265306122
Father	10	0.204081633	Health	13	0.265306122
Plant	10	0.204081633	Plant	13	0.265306122
War	10	0.204081633	Religion	13	0.265306122
Health	9	0.183673469	School	13	0.265306122
School	9	0.183673469	Disease	12	0.244897959
Sibling	9	0.183673469	Sun	12	0.244897959
Friendship	8	0.163265306	Water	12	0.244897959
Sun	8	0.163265306	War	11	0.22489796
Teacher	8	0.163265306	Child	10	0.204081633
Child	7	0.142857143	God	10	0.204081633
Heart	7	0.142857143	Old age	10	0.204081633
Learning	7	0.142857143	Teacher	10	0.204081633
Nature	7	0.142857143	Friendship	9	0.183673469
Peace	7	0.142857143	Heart	9	0.183673469
Religion	7	0.142857143	Nature	9	0.183673469
Tree	7	0.142857143	Peace	9	0.183673469
Leisure	6	0.12244898	Tree	9	0.183673469
Parent	6	0.12244898	Learning	7	0.142857143
God	5	0.102040816	Leisure	7	0.142857143
Diet (nutrition)	4	0.081632653	Diet (nutrition)	6	0.12244898
Old age	4	0.081632653	Parent	6	0.12244898
Sea	4	0.081632653	Television	6	0.12244898
Experience	3	0.06122449	Sea	4	0.081632653
Travel	3	0.06122449	Birth	3	0.06122449
Work	3	0.06122449	Experience	3	0.06122449
Automobile	2	0.040816327	Music	3	0.06122449
Birth	2	0.040816327	Travel	3	0.06122449

Home	2	0.040816327	Work	3	0.06122449
House	2	0.040816327	Automobile	2	0.040816327
Clothing	1	0.020408163	Food	2	0.040816327
Light	1	0.020408163	Home	2	0.040816327
Music	1	0.020408163	House	2	0.040816327
Television	1	0.020408163	Light	2	0.040816327
Cat	0	0	Clothing	1	0.020408163
Computer	0	0	Cat	0	0
Dog	0	0	Computer	0	0
Food	0	0	Dog	0	0
Pet	0	0	Pet	0	0
Telephone	0	0	Telephone	0	0

## Appendix AA

As discussed in Subchapter 12.2, this listing shows unique nouns we retrieved in June-July 2013 from cumulative vocabularies of English Vocabulary Profile for six language ability levels ([http://vocabulary.englishprofile.org/dictionary//word-list/uk/a1\\_c2/A](http://vocabulary.englishprofile.org/dictionary//word-list/uk/a1_c2/A)): A1 (305 nouns), A2 (880 nouns), B1 (1761 nouns), B2 (2707 nouns), C1 (3198 nouns) and C2 (3710 nouns).

In contrast with Appendix AB, please note that concepts of consecutive ranges of language ability levels of English Vocabulary profile can be considered cumulative so that next ranges of language ability levels almost always (with very few exceptions) contain all concepts belonging to all previous ranges of language ability levels whereas consecutive vocabularies of Oxford Wordlist can be considered only partially cumulative since there is only partial overlap between consecutive vocabularies.

### *Language ability level A1 (305 nouns):*

address; adult; afternoon; age; animal; answer; apple; april; arm; august; baby; bag; ball; banana; band; bank; bar; basketball; bath; bathroom; beach; beard; bed; bedroom; beer; bird; birthday; biscuit; board; boat; body; book; bottom; box; boy; bread; breakfast; brother; bus; business; butter; café; cake; camera; car; cat; cd; cd player; chair; cheese; child; chip; chocolate; cinema; city; class; classroom; clock; clothes; coat; coffee; colour; computer; conversation; country; course; cow; credit card; cross; cup; dad; dance; dancing; date; daughter; day; december; desk; dictionary; dining room; dinner; doctor; dog; doll; dollar; door; dress; drink; driver; dvd; ear; egg; email; end; evening; example; eye; face; factory; family; farm; father; february; film; fish; flat; floor; flower; food; foot; football; friday; friend; fruit; fun; game; garden; girl; glass; glasses; grass; group; guitar; hair; hand; hat; head; holiday; home; homework; horse; hospital; hotel; hour; house; husband; ice cream; jacket; january; jeans; job; juice; july; june; key; kind; kitchen; knife; language; leg; lesson; letter; life; living room; lunch; man; march; may; meal; meat; message; milk; minute; miss; mobile; mobile phone; monday; money; month; morning; mother; mouth; movie; mr; mrs; mum; museum; music; name; nationality; newspaper; night; noise; nose; note; november; number; october; orange; page; paint; pair; paper; parent; park; part; party; pen; pencil; people; person; pet; phone; photo; picnic; picture; pig; pizza; place; plane; plant; plate; player; potato; problem; quarter; question; radio; rain; reading; restaurant; rice; river; road; room; salt; sandwich; saturday; school; sea; sentence; september; sheep; shirt; shoe; shop; shopping; shower; sister; skirt; smoking; snow; son; soup; sport; station; stop; street; student; subject; sugar; summer; sun; sunday; supermarket; swimming pool; table; taxi; tea; teacher; television; tennis; test; the internet; thing; thursday; ticket; time; today; toilet; tomato; tomorrow; tooth; town; train; tree; trousers; t-shirt; tuesday; tv; university; waiter; waitress; wall; watch; water; weather; website; wednesday; week; weekend; vegetable; wife; village; wind; window; wine; winter; woman; word; work; world; writing; year; zoo;

### *Language ability level A2 (880 nouns):*

accident; activity; actor; adjective; adventure; adverb; advertisement; advice; aeroplane; air; airport; alarm clock; album; alcohol; ambulance; apartment; appointment; area; armchair; art; artist; aunt; autumn; back; badminton; balloon; barbecue; baseball; bat; battery; bean; bear; beginner; beginning; belt; bicycle; bike; bill; biology; bit; black; blackboard; blanket; blood; blue; board game; bookcase; bookshelf; bookshop; boot; boss; bottle; bowl; boyfriend; brain; break; bridge; brown; brush; building; burger; bus station; bus stop; businessman; businesswoman; calendar; call; camping; can; cap; capital; capital letter; car park; card; carpet; carrot; cartoon; case; cash; castle; cathedral; ceiling; cent; centimetre; centre; century; cereal; chain; champagne; change; channel; chat; chef; chemist; chemistry; cheque; chess; chicken; chilli; church; cigarette; circle; classmate; cleaner; click; climbing; cloud; clown; club; coach; cola; cold; colleague; college; comb; comic; company; comparative; competition; concert; contact; cook; cooker; cooking; corner; cost; countryside; cousin; cream; cricket; crisp; crowd; cupboard; curry; curtain; customer; cycling; dancer; danger; degree; delay; dentist; department; department store; desert; dessert; diary; difference; digital camera; dinosaur; diploma; directions; disco; discount; dish; document; dr; drawer; drawing; dream; driving licence; drum; duck; earring; east; electricity; elephant; engine; engineer; entrance; envelope; euro; exam; examination; exercise; exit; fact; fan; farmer; fashion; fast food; field; file; finger; fire; first name; fishing; flight; fog; folder; footballer; forest; fork; form; fridge; furniture; garage; garlic; gas; gate; geography; gift; girlfriend; glove; goal; gold; golf; gram; grammar; grandchild; granddad; granddaughter; grandfather; grandma; grandmother; grandpa; grandparent; grandson; granny; grape; green; grey; guest; guide; guidebook; guy; hall; ham; handbag; headache; headteacher; health; heart; heating; helicopter; help; hill; hip-hop; history; hobby; hockey; honey; housewife; ice; id; id card; idea; identification; information; insect; instrument;



invitation; island; it; jam; jazz; jewellery; journey; jumper; keyboard; kick; kid; kilo; kilogram; kilometre; king; kiss; kit; kite; lake; lamp; laptop; leather; left; lemon; lemonade; level; library; licence; lift; light; line; lion; list; litre; luck; luggage; lunchtime; machine; magazine; magic; mail; main course; make-up; manager; mango; map; mark; market; match; maths; mechanic; medicine; meeting; melon; member; memory; menu; metre; midday; midnight; mineral water; mirror; mistake; model; moment; monkey; mosque; motorbike; motorway; mountain; mouse; mp3 player; ms; mug; mushroom; nature; neck; necklace; neighbour; news; noon; north; notebook; notice; noun; nurse; occupation; offer; office; oil; omelette; onion; opera; order; pain; painter; painting; partner; passenger; passport; pasta; path; pc; pear; pence; penfriend; pepper; perfume; petrol; petrol station; photograph; photographer; photography; physics; piano; piece; pillow; pilot; pink; plan; plastic; platform; play; playground; plural; pocket; police; police officer; police station; policeman; policewoman; pool; pop; post; post office; postcard; poster; pound; practice; present; price; printer; prize; program; programme; project; pub; pupil; purple; purse; puzzle; queen; quiz; rabbit; race; racket; railway; raincoat; rap; rat; reason; receipt; receptionist; red; rent; rest; right; ring; rock; roof; roundabout; rubber; rugby; ruler; runner; running; sailing; salad; salesperson; sauce; sausage; scarf; schoolchild; science; scissors; scooter; screen; seat; second; secretary; set; shampoo; shelf; ship; shop assistant; shorts; show; side; sightseeing; sign; silver; singer; singing; singular; sink; site; sitting room; size; skate; skateboard; skateboarding; skating; skiing; sky; slice; snack; snake; snowboarding; soap; sock; sofa; soft drink; software; song; sort; soul; sound; south; space; speaker; spelling; spoon; sports centre; spring; square; stadium; staff; stage; stairs; stamp; star; steak; stomach; stomach ache; storm; story; suit; suitcase; sunglasses; superlative; supper; surfing; surname; surprise; sweater; sweet; sweets; swim; swimming; swimming costume; table tennis; team; teenager; telephone; temperature; term; text; text message; textbook; theatre; thunderstorm; tie; tights; timetable; toast; toe; tonight; toothache; toothbrush; top; tour; tour guide; tourist; towel; toy; traffic; traffic light; trainer; tram; trip; tune; type; tyre; umbrella; uncle; uniform; use; walk; walking; wallet; war; wash; washing machine; washing-up; way; web page; weekday; verb; west; wheel; white; video; video game; view; winner; violin; visitor; vocabulary; volleyball; wood; wool; worker; yellow; yogurt;

*Language ability level B1 (1761 nouns):*

ability; accent; access; accommodation; account; accountant; ache; achievement; act; action; ad; admission; advantage; advert; agency; ages; aim; air conditioning; air force; airline; alarm; alphabet; ambition; amount; angel; animation; ankle; anniversary; announcement; ant; antique; apology; appearance; application; architect; architecture; argument; arrangement; arrival; article; aspirin; assistant; athlete; athletics; atmosphere; attack; attention; attitude; attraction; audience; author; average; babysitter; backache; background; backpack; backpacker; backpacking; bacon; baggage; baker; balcony; ballet; bandage; bank account; barber; barman; basin; basket; battle; bay; beauty; bee; beef; behaviour; bell; benefit; bin; biography; birth; block; blog; blogger; bomb; bone; booking; border; boxing; bracelet; brake; branch; breast; breath; breeze; bride; broccoli; brochure; bucket; bug; builder; bull; bunch; butcher; butterfly; button; buyer; cab; cabbage; cabin; cable; cage; calculator; calf; camel; camp; campsite; canal; cancer; candidate; candle; canteen; captain; care; career; cashpoint; cattle; cave; cd-rom; celebration; celebrity; central heating; ceremony; certificate; challenge; champion; championship; chance; chapter; character; charge; charity; chat show; check; check-in (counter); check-in (desk); checkout; cheek; chest of drawers; chewing gum; childhood; chin; choice; circus; cliff; climate; clinic; coast; coconut; cod; coin; collar; collection; comedy; comma; comment; common sense; communication; competitor; complaint; composition; conclusion; condition; conference; connection; consonant; contents; contest; continent; contract; copy; corn; correction; cottage; cotton; cough; count; couple; courgette; court; cover; crash; creature; credit; crew; crime; criminal; crop; crossing; cruise; cry; cucumber; culture; currency; curriculum; cushion; custom; customs; cut; cv; cyclist; damage; death; decision; decrease; defeat; defence; definite article; delivery; demand; departure; deposit; depth; description; design; designer; destination; detail; detective; development; diagram; diet; difficulty; direction; director; dirt; disadvantage; disappointment; disc; disc jockey; discussion; disease; dishwasher; disk; display; distance; district; diver; diving; divorce; dj; documentary; dolphin; donkey; dot; doubt; download; drama; drive; drop; dust; dustbin; duty; duvet; earache; earth; economics; edge; education; effect; effort; elbow; election; embassy; emergency; employee; employer; employment; ending; enemy; energy; engineering; enquiry; entertainment; entry; equipment; essay; event; examiner; exchange; exchange rate; excitement; excuse; exhibition; expedition; experience; experiment; expert; explanation; extra; extreme sports; facilities; fair; fall; fare; farming; favour; favourite; fear; fee; feeling; ferry; festival; fever; fiction; fifth; fight; figure; film-maker; final; fine; finish; fire station; firefighter; firework; firm; fitness; flag; flavour; flood; flour; flu; flute; fly; folk; fool; forecast; forehead; foreigner; fortnight; fountain; frame; freezer; friendship; frog; frying pan; fuel; full stop; fur; future; gallery; gap; generation; ghost; giraffe; go; goalkeeper; goat; goods; government; grade; grant; graphics; greeting; grill; groom; ground; guard; guess; guitarist; gun; gym; gymnastics; habit; haircut; hairdresser; hairdryer; handball; handkerchief; handwriting; happiness; harbour; hardware; headline; heart attack; heat; heater; heel; height; herb; hero; hit; hole; honeymoon; hope; hostel; housework; hug; human; hunger; hurry; hut; ice hockey; ice skating; identity card; illness; imagination; immigration; importance; improvement; inch; indefinite article; industry; infinitive; ingredient; initial; ink; inquiry; instructor; interest; interval; interview; invention; iron; ironing; issue; item; jail; jar; jet; jogging; joke;

journalist; judge; jug; jump; jungle; kangaroo; keeper; kettle; killer; killing; kitten; knee; knickers; knowledge; lab; label; laboratory; ladder; lady; lamb; land; landscape; laugh; law; lawyer; leader; leaf; league; lecture; leisure; length; lettuce; lie; lighter; lightning; limit; link; lip; liquid; literature; loan; location; lock; logo; look; lorry; lottery; love; lover; luxury; madam; mall; marriage; mate; material; maximum; meaning; membership; mess; message board; metal; method; mile; millimetre; mind; minimum; mix; modal (verb); monster; monument; mood; mosquito; moustache; murder; murderer; musician; mystery; neighbourhood; nephew; net; niece; nightclub; nightlife; nightmare; northeast; northwest; noticeboard; novel; object; occasion; ocean; officer; olive; operation; opinion; opportunity; opposite; option; orchestra; organization; oven; owner; packet; palace; pan; pants; paragraph; parcel; parking; parrot; pass; password; patient; pattern; pavement; pay; pea; peace; peach; peak; peanut; pedestrian; penguin; penny; performance; performer; period; permission; pharmacy; photocopy; phrasal verb; phrase; pie; pile; pill; pin; pineapple; pipe; pirate; planet; pleasure; plug; pocket money; poem; poet; poetry; point; politician; politics; pollution; population; pork; port; position; possibility; postman; pot; powder; power; prayer; preparation; preposition; prescription; presentation; president; priest; primary school; prince; princess; prison; prisoner; product; profession; professor; progress; promise; pronoun; pronunciation; property; public transport; pullover; pump; punctuation; puppy; purpose; push; qualification; quality; quantity; question mark; questionnaire; queue; rail; rainforest; range; reader; reception; recipe; record; recording; recycling; refreshments; refund; region; registration; relation; relationship; relative; relaxation; religion; remote control; repair; reply; report; reporter; request; rescue; research; reservation; resort; respect; result; return; reward; review; revision; ride; rider; robot; role; roll; romance; rose; route; routine; row; rubbish; rug; ruin; rule; run; sailor; salary; salesman; saleswoman; salmon; sand; sandal; saucepan; saucer; scene; scenery; science fiction; scientist; score; scream; sculpture; search; season; secondary school; secret; section; security; seller; sense; series; server; service; session; sex; shade; shadow; shape; shark; sheet; shock; shore; shoulder; shout; sight; signature; signpost; silence; silk; single; sir; situation; ski; skill; skin; sleep; sleeve; smell; smile; smoke; snowboard; soap opera; social networking; society; soldier; solution; southeast; southwest; souvenir; speech; speed; spice; spider; spinach; spot; spy; squash; stall; start; statue; stay; step; stick; stone; store; stranger; strawberry; stream; stress; strike; stripe; studio; study; stuff; style; success; suggestion; sum; sunrise; sunset; sunshine; support; supporter; sweatshirt; swimmer; switch; system; tablet; takeaway; talent; talk; tap; taste; tax; teaching; tear; technique; technology; temple; tense; tent; thank you; the first floor; the ground floor; the seaside; thief; thought; thriller; throat; thumb; thunder; tick; tiger; tin; tip; tissue; title; tongue; toothpaste; topic; total; tourism; tournament; tower; track; tracksuit; trade; traffic jam; training; translation; transport; travel; travel agent; traveller; trend; trick; trouble; truck; trumpet; tube; tuna; tunnel; turkey; turn; turning; twin; uncountable; underpants; underwear; unemployment; union; unit; user; wage; valley; value; van; wardrobe; variety; warning; vase; waste; waterfall; wave; weather forecast; web; webcam; wedding; vegetarian; vehicle; weight; welcome; vet; whale; wheelchair; video clip; wildlife; windscreen; windsurfing; wing; virus; visa; visit; voice; volume; workout; worry; worst; vote; vowel; writer; yard; yoga; youth; zone;

*Language ability level B2 (2707 nouns):*

absence; abuse; accuracy; acid; addict; addiction; addition; adjustment; admiration; adoption; advance; advertising; affair; affection; agent; agreement; agriculture; aircraft; alternative; aluminium; amazement; ambassador; amusement; analysis; analyst; ancestor; anger; anxiety; apostrophe; appeal; appreciation; approach; approval; arrest; arrow; aspect; assessment; assistance; association; astonishment; atom; attachment; attempt; aubergine; authority; availability; award; backup; badge; bakery; balance; ban; bang; banker; banking; bargain; barrier; base; basement; basis; beam; beat; belief; belongings; bench; bend; berry; bestseller; bikini; billion; bite; blade; blame; bomber; bombing; bond; bonus; booklet; bookmark; boost; bow; bra; bracket; brand; bravery; breakdown; breakthrough; breed; brick; broadband; brother-in-law; browser; bruise; budget; bulb; bullet; bumper; bun; burglar; burglary; bush; cabinet; calculation; campus; capacity; carbon; carbon dioxide; carbon footprint; carbon monoxide; cardboard; cardigan; carelessness; carnival; cast; catalogue; category; catering; cause; cell; cellar; cello; cemetery; centigrade; certainty; chaos; characteristic; charm; chart; chemical; cherry; chest; chief; chimney; choir; circumstance; citizen; civilization; claim; classic; clause; client; climate change; cloth; clothing; clue; coaching; code; coincidence; collapse; collector; collocation; colon; column; combination; comedian; comfort; command; commerce; commercial; commitment; committee; community; companion; comparison; composer; compromise; concentration; concept; concern; concrete; conductor; confession; confidence; confirmation; conflict; confusion; conjunction; consciousness; consequence; conservation; consideration; construction; consultant; consumer; container; content; context; contrast; contribution; control; convenience; cooperation; copper; corporation; corridor; costume; council; counter; county; courage; courtesy; coward; crab; craft; creation; creativity; crisis; critic; criticism; crocodile; crossroads; cruelty; cure; curiosity; cursor; curve; cycle; darkness; darling; dash; data; database; daughter-in-law; dawn; daylight; daytime; deadline; deal; dealer; debate; debit; debit card; debt; decade; deck; decline; decoration; deer; defender; definition; delight; democracy; demonstration; denim; depression; desire; desktop; despair; destruction; determination; determiner; device; devil; dialogue; diamond; dilemma; dimension; diplomat; disability; disagreement; disappearance; disaster; discipline; discovery; disgrace; disguise; dishonesty; dislike; disposal; dissatisfaction; distinction; dive; division;

donation; dose; draft; drug; eagerness; eagle; earnings; earthquake; ease; economist; economy; edition; editor; efficiency; electrician; electronics; element; embarrassment; emotion; emphasis; encouragement; enjoyment; entertainer; enthusiasm; environment; envy; episode; equal; equality; era; error; escalator; escape; estate; estimate; evidence; evil; evolution; exception; exclamation mark; exhaustion; existence; expansion; expectation; expense; explosion; export; expression; extension; extent; extract; eyebrow; eyelash; eyelid; eyesight; facility; factor; failure; faith; fame; fantasy; fat; fate; father-in-law; fault; feather; feature; feedback; female; fence; fighting; finance; fingernail; fire brigade; first language; fisherman; flame; flash; flexibility; fluency; force; fortune; fox; freedom; friendliness; frost; frustration; function; funeral; gambling; gang; gardener; gardening; gear; gender; generosity; genetics; gentleman; glance; global warming; god; good; gossip; graduate; graph; grave; greatness; grief; grip; grown-up; growth; guarantee; guidance; guilt; gum; guts; hammer; handle; handout; hard drive; harm; harmony; harvest; headquarters; heaven; hedge; hell; helmet; helper; highlight; hint; hip; hold; honesty; honour; hood; hook; horn; horror; host; household; human rights; humour; hunting; hyphen; icon; identity; idiom; idiot; image; immigrant; impact; imperative; impression; incident; income; increase; independence; individual; infection; inflation; influence; inhabitant; injury; input; inside; inspector; inspiration; institute; institution; insult; insurance; intelligence; intention; interior; interruption; introduction; invasion; inventor; inverted commas; investigation; investigator; investment; investor; involvement; jaw; jewel; journalism; joy; judgment; junk food; jury; justice; kindness; kingdom; landing; landlady; landlord; lane; lap; laser; laughter; laundry; layer; laziness; lead; leaflet; leak; learner; learning; lecturer; leek; legend; leopard; liar; liberty; lid; lifestyle; lifetime; lighting; litter; liver; living; load; loaf; lobby; loss; loyalty; lung; lyrics; maintenance; majority; maker; male; management; mankind; manner; manual; manufacturer; manufacturing; marathon; marketing; martial art; mask; master; matter; mayor; means; measure; measurement; medal; mention; microphone; mine; minister; minority; mint; miracle; misery; mission; mist; misunderstanding; mixture; monitor; moonlight; mother-in-law; motivation; motive; motor; motorist; movement; mud; muscle; musical; myth; nail; nation; native speaker; navy; need; needle; nerves; network; nonsense; novelist; nuisance; nursery; nut; oak; objection; objective; obligation; observation; obsession; offence; offender; opening; operator; opponent; organizer; origin; original; outline; outskirts; overtime; owl; oxygen; pace; pack; package; pancake; panic; paperwork; parachute; parade; parliament; partnership; passage; passion; patience; pause; paw; payment; pedal; penalty; pension; percentage; personality; pharmacist; phase; philosopher; philosophy; pine; pint; pitch; pity; planning; plot; plumber; plus; point of view; poison; polar bear; policy; politeness; pond; popularity; portion; portrait; possession; potential; pottery; poverty; prawn; prediction; preference; prefix; prejudice; presence; presenter; presidency; pressure; prevention; pride; prime minister; principal; priority; privacy; procedure; process; producer; production; professional; profile; profit; programming; promotion; proof; proper; proposal; prospect; protection; protest; psychologist; psychology; publication; publicity; publisher; pudding; punch; punishment; purchase; pyjamas; quarrel; query; quiet; racism; rage; rainbow; rape; rate; ray; razor; reach; reaction; reality; rebel; recession; recommendation; recovery; recreation; reduction; referee; reference; reflection; refugee; regret; regulation; rehearsal; release; relief; remains; remark; remedy; replacement; representative; reputation; requirement; researcher; reserve; resident; resource; response; responsibility; retirement; revenge; revolution; rhythm; rib; rise; risk; robbery; rocket; roommate; root; rope; rumour; rush; rush hour; sadness; safety; sale; salon; sample; satellite; satisfaction; savings; scale; scandal; scar; scent; schedule; scheme; scratch; script; seal; seed; selection; self-confidence; semicolon; semi-final; seminar; sensation; separation; servant; setting; share; shed; shell; shelter; shift; shooting; shopkeeper; shortage; shot; sickness; sigh; signal; similarity; sister-in-law; skeleton; slash; slave; slope; smoker; softness; soil; solo; son-in-law; soundtrack; source; specialist; species; spectator; spirit; splash; sponsor; spray; spread; spreadsheet; stain; standard; state; statement; statistics; steam; steel; steering wheel; stepfather; stepmother; stock; stool; stopover; storage; storey; strain; strategy; strength; string; stroke; structure; struggle; substance; substitute; suburb; subway; suffering; suffix; suicide; summary; sunlight; supplier; supply; surface; surgery; surroundings; survey; survival; survivor; suspect; suspicion; swan; sweat; swing; sword; syllable; symbol; sympathy; symptom; tabloid; tail; tale; tan; target; task; teaspoon; telecommunications; telescope; temper; temptation; tension; terminal; terms; terrace; territory; terror; terrorism; terrorist; thanks; the first person; the last minute; the second person; the third person; theft; theme; theory; therapy; thermometer; thesis; thigh; third; thirst; threat; tide; timing; tiredness; toenail; tomb; ton; tone; tool; torch; tornado; touch; trace; tradition; tragedy; trail; transfer; trap; tray; treasure; treatment; trekking; trial; triangle; tribe; trolley; trophy; trunk; trust; truth; try; tutor; understanding; unhappiness; upbringing; update; upgrade; waist; wait; ward; variation; warmth; wasp; weakness; wealth; weapon; welfare; venue; verse; version; wheat; whisky; whistle; victim; victory; widow; width; viewer; will; willingness; vinegar; violence; wire; virtual reality; wisdom; wish; vision; vitamin; witness; volcano; wolf; volunteer; worm; wound; voyage; wrist; x-ray; yacht; yell; zebra; zip;

*Language ability level C1 (3198 nouns):*

abortion; acceptance; accessory; accusation; acquaintance; adaptation; administration; administrator; adviser; agenda; aggression; aid; alert; allegation; allowance; ally; alteration; amateur; amendment; angle; annoyance; appetite; applause; appliance; archaeologist; archaeology; asset; assignment; assumption; assurance; attendance; auction; audition; awareness; avenue; bacteria; beak; bid; blindness; boundary;

brass; bribe; bronze; bubble; bully; bump; burden; campaign; cancellation; capability; capture; carriage; caution; cholesterol; chore; clarification; closeness; clutch; coal; collaboration; commodity; competence; completion; complex; complication; component; congestion; consent; constitution; consumption; contestant; controversy; convention; coolness; corruption; counterpart; coverage; crawl; criterion; cultivation; cutback; daycare; debut; declaration; dedication; deduction; defect; deficiency; deficit; delegate; density; deodorant; deputy; destiny; developer; diesel; digestion; directory; disapproval; discomfort; discontent; discrimination; dismissal; disorder; displacement; disrespect; disruption; dissertation; distraction; distress; distribution; disturbance; diversity; divide; dock; domain; domination; downside; draught; drawback; dump; duration; ecology; effectiveness; elegance; elite; emission; emperor; empire; enterprise; environmentalist; equation; equivalent; erosion; establishment; evaluation; exaggeration; excess; executive; exhaust; exhibit; expenses; exploration; exposure; exterior; extinction; extrovert; fabric; fairness; fascination; feast; fibre; flair; flaw; fleet; flow; footstep; format; formula; foundation; friction; fright; fumes; fund; funding; fuss; gadget; gain; garment; gathering; gene; generalization; genius; geology; germ; gerund; gesture; giant; glamour; glimpse; globalization; glory; grace; greed; guideline; habitat; harassment; hardship; hate; hatred; hazard; heading; health care; historian; hospitality; housing; humanity; hunt; hygiene; iceberg; idol; illustration; implication; import; inability; inaccuracy; inclusion; inconvenience; index; indication; industrialization; infrastructure; initiative; injustice; innocence; innovation; insight; inspection; installation; instance; integration; interaction; interference; isolation; itinerary; jargon; jealousy; joint; journal; junk; junk mail; knob; labour; landmark; launch; lawn; layout; leadership; liability; liberation; limitation; listener; literacy; log; logic; loneliness; lounge; machinery; magistrate; mammal; mansion; mat; mechanism; memo; mentality; merit; migration; miner; mining; ministry; misfortune; misuse; mode; modification; move; mustard; nap; necessity; neglect; negotiation; nervousness; networking; newsletter; nickname; nomination; norm; notion; nutrition; obesity; obstacle; occurrence; odds; opposition; optimist; organ; outcome; outlook; overdraft; overview; ownership; ozone; palm; panel; paradise; participant; pastry; peasant; peer; pensioner; perfection; perk; permit; personnel; perspective; phenomenon; pony; posture; praise; precaution; predator; pregnancy; premises; preservation; prestige; principle; print; privilege; probability; productivity; programmer; progression; projection; proportion; proposition; prosperity; prostitute; protein; provider; provision; pulse; purity; pyramid; radiation; rank; rarity; rating; ratio; readership; readiness; realization; rebellion; reconstruction; recruitment; rectangle; redevelopment; redundancy; refusal; regard; register; reign; relevance; reliability; reminder; renewal; renovation; reproduction; reptile; republic; restriction; retail; revenue; richness; riot; rip-off; rival; role model; rudeness; runway; sack; sacrifice; saint; saving; scholar; scholarship; scope; sector; self; self-esteem; selfishness; sensitivity; sequence; serial; setback; settlement; sewing; shame; shortcoming; shuttle; shyness; side effect; significance; simplicity; simulation; sketch; slang; slavery; slogan; slot; smog; socialist; solicitor; solidarity; solitude; soya; spam; speciality; specification; spectrum; speculation; sphere; spine; spokesman; spokesperson; sponsorship; stability; staircase; stamina; stand; statistic; status; status symbol; stereotype; stock market; stocking; straw; stretch; striker; strip; stroll; subsidy; substitution; subtitles; successor; suitability; summit; superior; supervision; supervisor; surge; surgeon; tactic; takeover; tank; teamwork; technician; techno; telly; tendency; texture; the middle class; the upper class; the working class; therapist; thrill; tobacco; token; toll; torture; trainee; transaction; transformation; transportation; trek; triumph; tuition; turnover; twist; uncertainty; unity; unwillingness; usage; usefulness; vacancy; walker; variable; warrior; vegetation; veil; vein; well-being; vest; viewpoint; win; vine; wit; witch; workforce; workplace; workshop; worse; youngster;

*Language ability level C2 (3710 nouns):*

accumulation; acre; adolescent; advocate; alcoholic; alliance; allocation; ambiguity; analogy; anchor; antibiotic; anticipation; arch; army; artificial intelligence; aspiration; assault; assembly; astronomy; attribute; awe; backing; bark; barn; bet; bias; blackmail; blend; blister; blow; bribery; bundle; bureaucracy; burial; buzz; capitalism; cargo; casserole; casualty; catastrophe; chancellor; chapel; charisma; cheer; cheerfulness; chill; circuit; circulation; civilian; clarity; clash; classification; cliché; closure; clumsiness; coastline; coherence; coldness; combat; comeback; commander; complexion; complexity; compliment; conception; concession; confrontation; conscience; consensus; constraint; consultation; contempt; continuity; contraception; contraceptive; contradiction; conversion; conviction; cookie; coral; core; corpse; counselling; counsellor; coup; crack; crackdown; craving; craziness; credibility; creep; crush; crystal; custody; cutlery; decay; deception; delegation; denial; dependence; deprivation; descendant; desperation; deterrent; devastation; diagnosis; dialect; diarrhoea; dice; dignity; diplomacy; discretion; disgust; dismay; disposable income; disposition; dispute; dna; dominance; donor; doom; doorway; drain; drought; echo; elimination; embrace; empathy; endeavour; endurance; entity; essence; exile; expenditure; explosive; extremist; fake; famine; fanatic; feat; filter; fireplace; fist; flashback; flesh; fluid; focus; follower; forgery; forgiveness; formation; foul; founder; fraction; fragrance; framework; fraud; frenzy; fringe; frontier; frown; fulfilment; fury; gamble; gasp; gaze; glare; glow; glue; goodness; grain; grasp; grin; groan; grounds; gulf; hail; haul; heap; heir; heritage; hesitation; hierarchy; homelessness; horizon; hostage; hostility; humility; hypocrisy; hypothesis; ignorance; illusion; imitation; immune system; impatience; implementation; impossibility; imprisonment; impulse; incentive; inclination; indicator; indifference; individuality; inequality; infancy; infant; inferior; inferiority; influx;

inheritance; inhibition; injection; insecurity; insomnia; instinct; instruction; integrity; intellect; intellectual; intensity; intent; interpretation; intervention; intolerance; introvert; intruder; intrusion; intuition; irony; irritation; justification; kidney; knot; knuckle; lad; leap; leave; legacy; legislation; lifespan; likelihood; linen; loathing; local; loft; longevity; longing; lump; lure; margin; massacre; masterpiece; materialism; materialist; medication; mediocrity; medium; melody; memorial; mercy; merger; metaphor; millennium; mishap; misinterpretation; missile; momentum; monopoly; morale; mortality; motion; muddle; murmur; narrative; narrator; negligence; nerve; nest; normality; nostalgia; nostril; novelty; observer; odour; official; offspring; omission; openness; optimism; ordeal; orientation; ornament; orphan; outbreak; outgoings; outlet; output; outrage; overload; pact; paradigm; paradox; parallel; particle; pastime; patch; peer pressure; perception; perseverance; persistence; persuasion; pioneer; pit; plague; plea; plight; pole; portrayal; practitioner; precedent; predecessor; premium; presumption; prey; proceedings; procession; produce; propaganda; prosecution; prosecutor; protagonist; proverb; province; provocation; proximity; psychiatrist; pursuit; quest; quotation; quote; racist; radical; raid; rally; rash; read; realm; reasoning; reassurance; recognition; recollection; recruit; referendum; reform; refuge; regime; rejection; relish; remorse; repetition; representation; reproach; resemblance; resentment; residence; resignation; resilience; resistance; resolution; resolve; restraint; retailer; retention; retreat; reunion; revelation; reversal; reverse; revival; rhyme; ribbon; riches; ritual; rivalry; roar; round; ruling; saddle; sail; sanction; saying; scan; scarcity; scenario; schooling; scrap; scrutiny; self-assurance; self-awareness; self-control; self-discipline; self-reliance; self-respect; sensibility; sentiment; serenity; severity; shield; sibling; simplification; sin; sincerity; sip; siren; skull; slap; slaughter; snob; socialism; sorrow; spade; spark; specimen; spending; spite; splendour; spotlight; spouse; squad; stable; stance; standpoint; stardom; starvation; stimulus; stitch; strand; strap; stubbornness; stupidity; sufferer; superiority; supplement; surplus; suspense; sustainability; syllabus; synonym; tact; talks; taxpayer; tenant; tenderness; thinker; thread; threshold; throne; timber; toddler; tolerance; toughness; tractor; trader; trait; tranquility; transition; transmission; transplant; trash; trauma; treat; treaty; tribute; trilogy; trio; troops; turmoil; undertaking; unrest; upkeep; urge; vaccination; vaccine; validity; vandalism; vanity; warehouse; weed; velvet; venture; verdict; veteran; whim; vice; wilderness; villager; willpower; virgin; virtue; vitality; withdrawal; vocation; woodland; workaholic; worship; voter; vow; wreck; wreckage; wrinkle; xenophobia;

## Appendix AB

As discussed in Subchapter 12.2, this listing shows unique nouns in high-frequency lists we retrieved in June-July 2013 from Oxford Wordlist (nouns extracted based on co-occurrence among nouns of C2 vocabulary of English Vocabulary Profile) for five school levels (<http://www.oxfordwordlist.com/pages/search.asp>): Preparatory (685 nouns), Year 1 (811 nouns), Year 2 (1008 nouns), Year 3 (1412 nouns) and Year 4 (1445 nouns).

In contrast with Appendix AA, please note that concepts of consecutive ranges of language ability levels of English Vocabulary profile can be considered cumulative so that next ranges of language ability levels almost always (with very few exceptions) contain all concepts belonging to all previous ranges of language ability levels whereas consecutive vocabularies of Oxford Wordlist can be considered only partially cumulative since there is only partial overlap between consecutive vocabularies.

### *Preparatory (685 nouns):*

accident; adventure; aeroplane; afternoon; air; airport; ambulance; angel; animal; ant; apple; area; arm; army; art; august; baby; back; bacon; badge; bag; ball; ballet; balloon; banana; barbecue; bark; basket; basketball; bat; bath; battle; beach; bear; beat; bed; beginning; bend; bike; bird; birthday; biscuit; bit; bite; black; block; blood; blue; board; boat; bomb; bone; book; boss; bottle; bottom; bowl; box; boy; bra; branch; bread; breakfast; bride; bridge; brother; brush; bubble; builder; bump; bus; bush; butterfly; buzz; cabbage; cake; call; camera; camp; camping; can; candle; car; card; care; case; cash; castle; cat; cave; centre; cereal; certificate; chair; champion; change; channel; chart; check; cheer; cheese; cherry; chess; chicken; chief; child; chocolate; church; circus; city; class; classroom; climbing; clinic; clothes; cloud; clown; club; coast; cold; colour; competition; computer; concert; cookie; corner; costume; country; couple; court; cousin; cover; crab; crash; crew; cricket; crocodile; cross; crowd; cup; cushion; cut; dad; dance; dancing; dash; day; december; delivery; dentist; desert; desk; dessert; devil; diary; dinner; dinosaur; disco; diving; doctor; dog; doll; dollar; dolphin; door; drawing; dream; dress; drink; drive; drop; duck; dust; dvd; eagle; ear; earth; egg; electricity; elephant; end; engine; evening; face; factory; fair; family; farm; farmer; fat; favourite; feeling; fence; ferry; festival; fight; fighting; final; fine; finger; finish; fire; fish; fishing; flame; flat; floor; flower; flute; fly; food; foot; football; fork; fox; frame; friday; fridge; friend; frog; fruit; fun; game; garage; garden; gardening; gas; gear; ghost; giraffe; girl; glow; glove; go; goal; gold; golf; good; grandma; grass; green; grey; ground; guitar; gum; gun; guy; gymnastics; hair; hall; ham; hand; handball; hat; hate; head; headache; heart; heaven; helicopter; helmet; help; hero; hill; hip; history; hit; hockey; hold; hole; holiday; home; homework; honey; hood; hope; horn; horse; hospital; hotel; house; hunt; hunting; hurry; idea; ink; inside; instrument; island; it; jacket; jail; jam; jazz; jeans; jet; job; juice; jump; june; jungle; kangaroo; kick; kid; killer; killing; kind; king; kingdom; kitchen; kite; kitten; ladder; lake; land; language; left; leg; lemon; leopard; lesson; letter; lettuce; level; library; light; lighter; lightning; line; lion; list; look; lounge; love; lunch; machine; magazine; magic; mall; man; market; mat; match; mate; maths; meal; meat; medal; medicine; metal; milk; mind; mine; miss; model; monday; monkey; monster; morning; mother; motorbike; mouse; move; movie; mr; mrs; mud; mug; mum; museum; music; musical; name; nap; neck; need; net; news; newspaper; night; noise; nose; number; ocean; office; officer; orange; orchestra; order; owner; pack; packet; paint; pair; palace; pancake; pants; paper; parade; parent; park; part; partner; party; pasta; patch; path; peace; pear; pencil; penguin; people; person; pet; phone; photo; picnic; picture; pie; piece; pig; pillow; pin; pineapple; pink; pirate; pit; pizza; place; plan; plane; planet; plant; plate; play; player; playground; poison; pole; police; policeman; pond; pony; pool; power; present; prince; princess; prize; professor; project; pub; puppy; purple; push; queen; question; rabbit; race; radio; rain; rainbow; read; reading; record; rectangle; red; reptile; rescue; restaurant; reward; rice; ride; right; ring; river; road; roar; robot; rock; rocket; roll; roof; room; rubbish; ruler; run; runner; running; sack; safety; salad; sale; sand; sandwich; saturday; sauce; sausage; saying; school; science; scooter; score; sea; second; secret; section; set; share; shark; shed; sheep; ship; shirt; shoe; shop; shopping; shot; show; shower; side; singing; sink; siren; sister; size; skate; skateboard; skateboarding; skating; skeleton; ski; skiing; sky; sleep; snake; snow; song; sort; sound; soup; space; speed; spelling; spider; sport; spot; spring; stage; stairs; stand; star; start; station; stay; stone; stop; store; storey; storm; story; stranger; street; stretch; study; stuff; sugar; summer; sun; sunday; sweet; swim; swimming; swing; sword; system; table; tail; tale; talk; tan; tap; tea; teacher; team; television; temple; tennis; tent; thanks; theatre; thing; thought; thumb; thunder; thursday; ticket; tie; tiger; timber; time; timetable; today; toe; toilet; tomato; tomorrow; tonight; tooth; top; torch; town; toy; tractor; traffic; trail; train; training; trap; travel; treasure; tree; triangle; trick; trip; trophy; trouble; truck;

tuesday; turn; turning; tv; twist; type; umbrella; uncle; use; walk; walking; wall; war; wash; watch; water; waterfall; wave; way; wedding; wednesday; week; weekend; vest; west; vet; whale; wheel; whistle; white; video; will; village; win; wind; window; winner; winter; wish; visit; visitor; witch; voice; volcano; wolf; woman; wood; work; world; worm; wreck; writing; yard; year; yellow; zebra; zoo;

*Year 1 (811 nouns):*

adult; adventure; aeroplane; afternoon; ambulance; animal; answer; apple; arm; army; arrest; art; assembly; athletics; attack; baby; back; background; bacon; bag; ball; ballet; balloon; band; bang; bank; bar; barbecue; barn; base; baseball; basket; basketball; bat; bath; battle; beach; bear; beat; bed; bedroom; bee; beef; beginning; bell; bend; bike; bin; bird; birthday; biscuit; bit; black; blanket; block; blood; blow; blue; boat; body; bonus; book; boss; bottle; bottom; box; boxing; boy; brand; bread; break; breakfast; brother; brown; brush; bubble; bucket; bug; builder; building; bull; bunch; burger; bus; bush; business; butter; butterfly; button; buzz; cabin; cage; cake; call; camel; camping; can; candle; cap; car; card; cardboard; care; carpet; cash; cast; castle; cat; cave; centre; century; cereal; chain; chair; change; chaos; charge; cheese; chemist; chess; chest; chicken; child; chin; chip; chocolate; church; circle; circus; city; class; classroom; climbing; clothes; clown; club; coach; coffee; coin; cold; collar; collection; colour; commercial; competition; complex; computer; concert; contest; cook; cookie; cooking; coral; corner; cost; cottage; cotton; council; count; couple; course; court; cousin; cow; cover; crash; crawl; cream; creature; cricket; crime; criminal; crocodile; cross; crossing; cruise; cry; cucumber; cup; cupboard; cut; cycle; dad; dance; dancer; dancing; danger; darling; day; december; dentist; desert; designer; desk; devil; diamond; diet; dinner; dinosaur; directions; dirt; disco; dive; diving; dock; doctor; dog; doll; dollar; dolphin; donkey; door; dot; drawing; dream; dress; drink; drive; driver; drop; duck; dump; dvd; earth; egg; elephant; emergency; end; ending; engine; eye; face; fact; factory; fake; fall; family; fan; farm; farmer; fashion; fat; father; favourite; field; fifth; fight; fighting; final; fine; finish; fire; fish; fishing; flag; flash; flat; flavour; floor; flower; fly; fog; food; foot; football; forest; fox; frame; friday; friend; frog; fruit; fun; fur; game; garage; garden; gardening; gate; gear; gentleman; ghost; giant; gift; giraffe; girl; glass; glasses; go; goal; goat; god; gold; golf; good; grade; grandma; grandmother; grass; green; grey; ground; group; guess; guitar; gum; gun; guy; gym; gymnastics; hair; haircut; hall; hammer; hand; handle; hat; head; headache; heart; heaven; helicopter; help; hero; hill; hit; hold; hole; holiday; home; homework; honey; honeymoon; honour; hook; hope; horse; hospital; hotel; hour; house; hug; hunting; iceberg; idea; information; inside; instructor; interview; invitation; island; it; jacket; jail; january; jar; jealousy; job; joke; joy; jump; jumper; june; jungle; kangaroo; key; keyboard; kick; kid; killer; killing; kind; king; kiss; kit; kitten; knife; lab; lady; lake; land; lane; lap; laptop; lawn; leader; leaf; leap; learning; leave; left; leg; lemon; leopard; letter; lettuce; level; library; life; light; lightning; line; lion; lip; living; look; lounge; love; lover; lunch; lunchtime; machine; magic; maker; man; march; market; marriage; mask; master; mat; match; mate; maths; matter; meal; means; meat; medal; medicine; memory; mess; message; metal; microphone; midnight; milk; mine; minute; miss; mistake; monday; money; monkey; monster; morning; mosquito; mother; motor; motorbike; mountain; mouse; moustache; mouth; move; movie; mr; mrs; ms; mud; mum; murder; murderer; mushroom; music; musical; name; narrative; nature; neck; need; neighbour; nest; net; night; noise; note; notice; november; number; ocean; opening; orange; oven; owl; owner; packet; paint; painting; pair; palace; pan; pants; paper; parcel; parent; park; part; party; pass; pastry; patch; pay; pen; pencil; penguin; people; performance; person; pet; phone; photographer; picnic; picture; piece; pig; pile; pink; pipe; pirate; pizza; place; plan; plane; planet; plate; play; player; playground; pocket; point; poison; pole; police; pond; pony; pool; pop; port; post; postman; potato; pound; power; practice; prawn; present; prince; princess; principal; print; printer; prize; problem; proper; pub; puppy; purple; push; pyjamas; quarter; queen; quiet; rabbit; race; rain; rainbow; rainforest; rat; reach; read; reading; reason; recycling; red; register; rescue; rest; restaurant; ride; right; ring; river; road; robot; rock; rocket; roll; roof; room; rope; rose; round; row; rule; run; running; safety; sail; salad; sale; sand; sandwich; saturday; sauce; school; science; scooter; score; scream; screen; sea; season; seat; second; secret; september; session; set; sewing; shadow; shape; share; shark; shed; sheep; sheet; shell; ship; shooting; shop; shopping; shot; shout; show; shower; side; silver; singer; singing; single; sink; siren; sister; size; skateboard; skeleton; ski; skiing; skull; sky; sleep; snack; snake; snow; snowboarding; son; song; sound; soup; space; speed; spider; sport; spot; spread; stadium; staff; stage; stairs; stand; star; start; stay; step; stick; stop; storm; story; strawberry; street; stretch; strike; stuff; sugar; suitcase; summer; sun; sunday; surprise; sweat; swim; swimmer; swimming; swing; sword; table; tail; takeaway; talk; tank; tap; target; taste; tea; teacher; teaching; team; tennis; tent; test; thanks; thief; thing; third; thought; thunder; thursday; tiger; time; toast; today; toilet; tomato; tomorrow; tonight; tool; tooth; toothbrush; top; touch; tour; towel; tower; town; toy; track; tractor; train; training; tram; travel; tray; treasure; tree; trick; trophy; trouble; truck; try; tube; tuesday; tunnel; turkey; turn; turning; tv; type; uncle; use; wait; walk; walker; walking; wall; van; war; warehouse; wash; waste; watch; water; way; wedding; wednesday; week; weekend; vegetable; version; whale; wheel; whistle; white; wife; wildlife; will; village; win; window; wing; winter; wish; visit; witch; voice; wolf; volleyball; woman; wood; wool; word; work; worker; workshop; world; worst; writing; yard; year; yellow; zoo;

*Year 2 (1008 nouns):*

ad; adult; adventure; aeroplane; afternoon; age; ages; air; airport; alarm; ambulance; animal; ant; apple; argument; arm; army; art; attack; august; baby; back; bacon; badge; bag; ball; balloon; banana; band; bang; barbecue; bark; barn; base; basketball; bat; bath; bathroom; battery; battle; bay; beach; beak; bear; beard; beat; bed; bedroom; bee; beer; bell; bench; bike; billion; bin; bird; birthday; biscuit; bit; bite; black; blanket; block; blood; blow; blue; board; boat; body; bomb; bone; book; boost; boot; border; boss; bottle; bottom; bow; bowl; box; boy; boyfriend; bracelet; brain; bread; break; breakfast; breath; breed; bridge; brother; brown; brush; bubble; bucket; bug; building; bull; bump; bunch; bus; bush; business; butter; butterfly; buzz; cabbage; cabinet; cage; cake; calculator; calf; call; camel; camera; camp; camping; can; cancer; candle; canteen; cap; captain; capture; car; card; care; carnival; carpet; carrot; cartoon; case; cash; cast; castle; cat; cave; cemetery; centre; chain; chair; challenge; chance; change; channel; chapter; chat; check; cheer; chef; chess; chest; chicken; chimney; chip; chocolate; choice; church; cinema; circle; city; class; classroom; cleaner; climbing; clock; clothes; cloud; clown; club; coach; code; coffee; cold; collar; collection; collector; college; colour; community; competition; computer; contact; container; contest; continent; control; cook; cookie; cooking; cooperation; coral; corner; cost; cottage; cough; count; counter; country; couple; course; court; cousin; cow; cover; crab; craft; crash; cream; creature; credit; crew; cricket; crime; crocodile; cross; cruise; cry; crystal; culture; cup; cupboard; curriculum; customer; cut; cutlery; dad; dance; dancing; darling; daughter; day; death; december; decision; deck; deer; defeat; desert; desk; dessert; devil; diamond; diary; dice; diesel; diet; dimension; dinner; dinosaur; direction; directions; disco; disease; distance; diver; diving; doctor; dog; doll; dolphin; donkey; door; download; dr; drawer; drawing; dream; dress; drink; drive; driver; drop; drought; duck; dvd; eagle; earth; edge; egg; elephant; end; enemy; engine; episode; escape; evening; event; evil; exercise; exhaust; extra; eye; face; factory; fair; fall; family; fan; fantasy; farm; farmer; fat; favourite; feeling; fence; ferry; field; fight; fighting; final; fine; fire; fireplace; fish; fishing; fitness; flame; flash; flat; flight; flood; floor; flour; fluid; fly; food; foot; football; force; forest; form; fox; frame; freezer; friday; fridge; friend; fright; frog; frost; fruit; fuel; fun; funeral; fur; furniture; future; gain; game; gang; gap; garage; garden; gardening; gate; gear; gentleman; ghost; giant; gift; giraffe; girl; girlfriend; glass; glasses; glow; glue; go; goal; god; gold; golf; good; grade; grandfather; grandma; grandpa; grass; grave; green; grey; ground; group; guard; guess; guitar; gun; guts; guy; gymnastics; hair; haircut; ham; hand; handball; handle; harm; hat; hate; head; headache; heading; heart; heat; help; hero; hill; hip; history; hit; hobby; hockey; hold; hole; holiday; home; homework; honey; hope; horn; horse; hospital; hotel; hour; house; hug; human; hunt; hunting; husband; hut; ice; idea; imagination; inch; insect; inside; instructor; interaction; island; it; jacket; jail; jam; jet; jewellery; job; joke; journey; joy; judge; jug; juice; jump; jumper; jungle; junk; kangaroo; kettle; key; kick; kid; killing; kilometre; kind; king; kiss; kitchen; kite; kitten; knife; knob; lab; laboratory; ladder; lady; lake; lamb; lamp; land; laser; laugh; lawn; lead; leader; leaf; leak; leave; left; leg; legend; lemon; lemonade; length; leopard; lesson; letter; level; library; lie; life; light; lightning; line; lion; living; loaf; local; log; look; lounge; love; lunch; lunchtime; machine; machinery; magic; mail; man; mango; march; mark; market; mask; master; match; maths; matter; may; meal; means; meat; mechanic; medal; medicine; medium; member; mention; menu; mercy; mess; message; metal; metre; microphone; midnight; milk; mind; mine; mint; miracle; mirror; miss; missile; mode; model; moment; monday; money; monkey; monster; month; morning; mother; motor; motorbike; mouse; mouth; move; movement; movie; mr; mrs; mud; mug; mum; museum; mushroom; music; musical; mystery; name; nap; neck; necklace; need; neighbour; net; news; newspaper; night; noise; nose; november; number; obstacle; ocean; october; opening; opera; opposite; orange; organ; oven; owl; owner; pack; packet; pain; paint; painting; pair; palace; palm; pan; pancake; pants; paper; parade; paragraph; parcel; parent; park; parrot; part; partner; party; pass; pasta; patch; path; paw; pay; peace; pen; pencil; penguin; people; pepper; person; pet; petrol; phone; photo; piano; picture; pie; piece; pig; pile; pillow; pink; pipe; pirate; pit; pizza; place; plan; plane; planet; planning; plant; play; player; playground; plot; point; pole; police; pond; pony; pool; pop; pork; port; pot; potato; pound; power; practice; prawn; present; presentation; president; prince; princess; principal; prize; problem; professor; promise; punch; puppy; purple; push; quarter; queen; quiet; rabbit; race; radio; rain; rainbow; rat; razor; read; reading; record; red; rescue; research; rest; restaurant; reward; rice; ride; rider; right; ring; river; road; roar; robot; rock; rocket; roll; roof; room; rope; round; roundabout; rubber; run; running; sack; salad; salt; sand; sandwich; saturday; sausage; saying; scarf; school; science; scooter; score; scratch; screen; sea; seal; search; seat; second; secret; section; seed; self; sentence; september; set; shape; share; shark; shed; sheep; sheet; shelf; shelter; ship; shoe; shooting; shop; shopkeeper; shopping; shore; shorts; shot; shoulder; show; shower; shuttle; side; sight; sign; silver; singing; sip; sir; siren; sister; skate; skeleton; skin; skirt; sky; sleep; slice; smoke; snack; snake; snow; soldier; solution; son; song; sound; soup; south; space; speed; spelling; spider; spinach; spirit; splash; spoon; spotlight; spray; spread; spring; spy; square; stable; stadium; stage; staircase; stairs; stamp; stand; star; start; state; station; stay; step; stick; stomach; stool; stop; store; storey; storm; story; straw; strawberry; street; string; student; stuff; style; subject; suit; summer; sun; sunday; surprise; survival; sweets; swim; swimming; swing; symbol; table; tail; talent; talk; tank; tap; taxi; tea; teacher; teaching; team; teaspoon; teenager; temper; tent; test; text; thanks; thermometer; thing; third; thought; thunderstorm; thursday; tie; tiger; timber; time; tin; toast; today; toe; toilet; tomorrow; tongue; tonight; tooth; toothbrush; top; topic; torch; touch; towel; tower; town; toy; track; tracksuit; tractor; train; trainer; training; tram; trap; treasure; tree; triangle; trick; trip; trophy; trouble; truck; trunk; truth; try; tuesday; tunnel; turkey; turn; turning; tv; type;



tyre; uncle; uniform; unit; university; upgrade; use; wait; walk; walking; wall; valley; war; wardrobe; warrior; wash; wasp; waste; watch; water; waterfall; wave; way; web; website; wedding; wednesday; weed; week; weekend; veil; west; whale; wheel; whistle; white; victim; video; wife; will; village; win; wind; window; wing; winner; winter; wish; visit; witch; voice; volcano; wolf; woman; wood; wool; word; work; world; worry; worst; wrist; writing; yacht; yard; year; yellow; zebra; zone; zoo;

*Year 3 (1412 nouns):*

account; accuracy; ache; act; action; activity; actor; ad; addition; address; adult; adventure; advice; aeroplane; afternoon; age; agent; ages; air; airport; alarm; album; alcohol; allowance; alphabet; angel; angle; animal; ankle; announcement; answer; ant; apartment; apple; area; arm; army; arrest; art; artist; assistant; attack; attention; audience; august; aunt; author; autumn; award; baby; back; backing; backpack; bacon; bag; bakery; balcony; ball; ballet; balloon; banana; band; bandage; bang; bank; bar; barbecue; barber; bark; barrier; base; baseball; basement; basket; basketball; bat; bath; bathroom; battery; battle; bay; beach; beam; bean; bear; beat; beauty; bed; bedroom; bee; beef; beer; beginning; behaviour; bell; belt; bench; berry; bet; bicycle; bike; bin; bird; birthday; bit; bite; black; blackboard; blade; blanket; blend; block; blood; blow; blue; board; boat; body; bomb; bone; book; booking; boost; boss; bottle; bottom; bow; bowl; box; boxing; boy; boyfriend; brain; brake; branch; brand; bread; break; breakfast; breath; breed; bribe; brick; bride; bridge; brother; brown; brush; bubble; bucket; bug; builder; building; bulb; bull; bullet; bully; bump; bunch; burger; bus; bush; business; butter; butterfly; button; buzz; cab; cabbage; cabin; cage; cake; calculator; calendar; call; camel; camera; camp; camping; campsite; can; cancer; canteen; cap; capital; captain; capture; car; card; care; carnival; carpet; carrot; cartoon; case; cash; casserole; cast; castle; cat; cause; cave; ceiling; cell; cent; centre; cereal; chain; chair; challenge; champion; championship; chance; change; chapter; character; charge; charm; chat; check; cheer; cheese; chef; chess; chest; chicken; child; chilli; chimney; chin; chip; chocolate; choice; church; cinema; circle; circus; city; class; classic; classroom; click; cliff; climbing; clinic; clock; cloth; clothes; clothing; cloud; club; clue; clutch; coach; coal; coat; coconut; code; coffee; coin; cola; cold; collar; collection; college; colour; column; comedy; comic; company; competition; complex; computer; concert; control; cook; cookie; cooking; core; corn; corner; cost; costume; cottage; cotton; cough; count; counter; country; couple; courage; course; court; cousin; cow; cover; crab; crack; craft; crash; cream; creature; creep; crew; cricket; crime; crocodile; cross; crowd; cruise; cry; crystal; cup; cupboard; curve; custom; customer; cut; cutlery; dad; damage; dance; dancer; dancing; danger; darkness; darling; dash; date; daughter; dawn; day; death; december; deck; deer; defeat; defence; defender; delivery; desert; design; desire; desk; dessert; detective; devil; diamond; diary; dice; diet; difference; dinner; dinosaur; directions; dirt; disaster; disc; disco; disease; disguise; dishwasher; disk; distance; dive; diver; diving; division; dock; doctor; dog; doll; dollar; dolphin; domination; donkey; doom; door; dot; dr; draft; drain; drawer; drawing; dream; dress; drink; drive; driver; drop; drum; duck; dump; dust; duty; ear; earth; earthquake; ease; east; edge; egg; electricity; element; elephant; email; empire; end; enemy; energy; engine; enthusiasm; entrance; envelope; equipment; error; escape; evening; evil; excitement; excuse; exercise; experiment; expert; explosion; explosive; expression; extra; eye; face; fact; factory; fake; fall; fame; family; fantasy; farm; farmer; fashion; fat; father; favourite; fear; feeling; female; fence; ferry; field; fifth; fight; fighting; figure; final; fine; finger; fingernail; finish; fire; fish; fishing; fist; fitness; flash; flat; flavour; flesh; flight; floor; flour; flower; flu; fly; fog; food; fool; foot; football; footballer; force; forest; form; fortune; fox; frame; friday; fridge; friend; fright; frog; fruit; fun; funeral; fur; furniture; future; game; gang; gap; garage; garden; gas; gate; gathering; gear; ghost; giant; gift; girl; glance; glass; glasses; glow; glue; go; goal; goalkeeper; god; gold; golf; good; goodness; goods; government; grade; grandfather; grandma; grandmother; grandpa; grandson; grant; grass; green; grey; grin; grip; groom; ground; group; guard; guess; guest; guide; guitar; gum; gun; guts; guy; gym; gymnastics; hail; hair; hairdresser; hall; ham; hammer; hand; handle; happiness; harmony; hat; hate; head; heading; health; heart; heat; heaven; hedge; height; helicopter; hell; helmet; help; hero; hill; history; hit; hobby; hockey; hold; hole; holiday; home; homework; honesty; honey; hood; hope; horn; horror; horse; hospital; host; hotel; hour; house; hug; human; hunt; hunting; hurry; husband; ice; idea; imagination; inch; indicator; information; ink; inside; interior; invasion; invention; investigation; invitation; iron; island; it; item; jacket; jail; jam; january; jar; jaw; jeans; jet; jewellery; job; joke; journal; journey; joy; juice; july; jump; jumper; june; jungle; junk; kangaroo; keeper; kettle; key; keyboard; kick; kid; killer; killing; kind; king; kingdom; kiss; kit; kitchen; kite; kitten; knife; knot; lab; laboratory; labour; lad; ladder; lady; lake; lamb; lamp; land; landing; lane; language; lap; laptop; laser; laugh; launch; law; lawn; layer; lead; leader; leap; learning; leave; left; leg; legend; lemon; lemonade; leopard; lesson; letter; lettuce; level; liar; library; lie; life; lifetime; lift; light; lighting; lightning; line; link; lion; lip; list; literacy; litre; liver; living; lock; log; look; lounge; love; luck; luggage; lunch; lunchtime; machine; magazine; magic; mail; man; manager; mango; mansion; map; march; mark; market; mask; master; mat; match; mate; maths; matter; may; mayor; meal; means; measure; meat; medal; medication; medicine; meeting; member; membership; mention; menu; mess; message; metal; method; microphone; midnight; milk; mind; mine; miner; minute; mirror; miss; missile; mission; mist; mistake; mix; mixture; mobile; mode; model; moment; monday; money; monkey; monster; month; mood; moonlight; morning; mother; motorbike; mountain; mouse; mouth; move; movement; movie; mr; mrs; ms; mud; mug; mum; murder; muscle; museum; music; mystery; nail; name; nap; neck; necklace; need; needle; neighbour;

nest; net; news; newspaper; night; nightmare; noise; north; nose; note; notice; number; nurse; nursery; nut; oak; object; obstacle; ocean; october; offence; office; officer; oil; onion; opening; opera; opponent; opposite; orange; oven; owl; owner; oxygen; pace; pack; packet; page; pain; paint; painting; pair; palace; pan; pancake; pants; paper; parachute; parcel; parent; park; parking; part; partner; party; pass; password; pastry; patch; path; pattern; pause; pay; pea; peace; peach; pedal; pencil; penguin; people; perfume; person; personality; pet; petrol; phone; photo; photographer; piano; picnic; picture; pie; piece; pig; pillow; pilot; pin; pineapple; pink; pirate; pit; pitch; pizza; place; plan; plane; planet; planning; plant; plastic; plate; platform; play; player; playground; pleasure; plug; plus; pocket; poem; point; pole; police; pond; pony; pool; pop; pork; port; position; post; poster; pot; potato; pound; powder; power; practice; prawn; present; president; priest; prince; princess; principal; prison; prisoner; prize; problem; professional; professor; profile; program; promise; proper; property; pub; pudding; punch; puppy; purple; push; pyjamas; pyramid; quarter; queen; quest; question; quiet; quiz; rabbit; race; radio; rail; rain; rainbow; raincoat; rally; rap; rat; rating; ray; razor; reach; read; reader; reading; reason; recipe; rectangle; red; reflection; region; relief; reply; report; rescue; research; rest; restaurant; return; revenge; rice; ride; rider; right; ring; river; road; roar; robbery; robot; rock; rocket; roll; roof; room; rope; rose; round; row; rubber; rubbish; rule; ruler; run; running; runway; rush; saddle; safety; sailing; salad; sale; salmon; salt; sand; sandwich; saturday; sauce; sausage; saying; scar; scarf; school; science; scientist; scooter; scope; score; scrap; scratch; scream; sea; seal; search; season; seat; second; secret; section; security; seed; self; sense; sentence; series; service; session; set; setting; shadow; shape; share; shark; shed; sheep; sheet; shelf; shell; shelter; shield; shift; ship; shirt; shock; shoe; shooting; shop; shopkeeper; shopping; shorts; shot; shoulder; show; shower; shuttle; side; sight; sign; signal; silence; silver; singer; singing; single; sink; sir; siren; sister; site; size; skate; skateboard; skating; skeleton; skiing; skill; skin; skirt; skull; sky; slap; sleep; slice; smell; smile; smoke; smoking; snack; snake; snow; soap; sofa; soil; soldier; solo; son; song; sort; sound; soup; source; south; space; speaker; species; speech; speed; spelling; spending; sphere; spider; spine; spirit; spoon; sport; spot; spotlight; spray; spread; spring; spy; squad; square; squash; stadium; staff; stage; stairs; stand; standard; star; start; state; station; statue; stay; steak; steam; step; stick; stomach; stone; stop; store; storey; storm; story; straw; strawberry; stream; street; stretch; strike; string; stroke; stroll; student; studio; study; stuff; subject; substance; sugar; suit; summer; sun; sunday; sunglasses; sunlight; supermarket; supporter; surface; surfing; surprise; surroundings; survivor; swan; sweat; sweet; swim; swimmer; swimming; swing; switch; sword; system; table; tail; talk; tank; tap; target; taste; taxi; tea; teacher; teaching; team; teaspoon; teenager; telescope; television; tennis; tent; term; test; text; thanks; theatre; theme; thief; thing; third; thought; thunder; thunderstorm; thursday; tick; ticket; tie; tiger; time; tin; tissue; title; toast; today; toe; toilet; tomato; tomb; tomorrow; tongue; tonight; tooth; top; topic; torch; tornado; touch; tour; tournament; towel; tower; town; toy; track; traffic; trail; train; trainer; training; transport; trap; trash; travel; tray; treasure; treat; tree; tribe; trick; trip; troops; trophy; trouble; truck; trumpet; trunk; trust; truth; try; tube; tuesday; tune; tunnel; turn; turning; tv; twin; type; tyre; uncle; underwear; uniform; unit; use; wait; walk; walking; wall; wallet; valley; van; war; wardrobe; warehouse; warning; warrior; wash; watch; water; waterfall; wave; way; weapon; weather; web; website; wedding; wednesday; week; weekend; vegetable; weight; veil; welcome; verse; version; vest; vet; whale; wheat; wheel; white; vice; video; view; wife; will; village; win; wind; window; windscreen; vine; wine; wing; winner; winter; violin; wire; wish; visit; witch; voice; volcano; wolf; woman; wood; word; work; world; worm; worry; worse; worst; vote; wrist; writer; writing; yard; year; yellow; zebra; zoo;

*Year 4 (1445 nouns):*

accident; accommodation; achievement; acid; act; action; activity; actor; ad; adult; advantage; adventure; advertisement; aeroplane; afternoon; age; agency; agent; ages; air; airport; alarm; alert; ambulance; amount; amusement; analysis; angel; anger; animal; ankle; answer; ant; apartment; apple; april; arch; area; arm; army; art; association; attack; attention; attraction; august; aunt; award; baby; babysitter; back; background; backpack; bacon; badge; bag; balance; balcony; ball; ballet; balloon; ban; banana; band; bandage; bang; bar; bark; barn; base; baseball; basement; basket; basketball; bat; bath; bathroom; battle; bay; beach; bear; beat; beauty; bed; bedroom; beef; beer; beginning; behaviour; bell; belongings; belt; bench; bend; bet; bicycle; bid; bike; bikini; bill; bin; bird; birth; birthday; bit; bite; black; blanket; block; blood; blow; blue; board; boat; body; bomb; bone; bonus; book; bookshelf; boost; boot; boss; bottle; bottom; bow; bowl; box; boxing; boy; boyfriend; bracelet; brain; branch; bread; break; breakfast; breath; breed; breeze; brick; bridge; brother; brown; brush; bubble; bucket; budget; bug; building; bull; bullet; bully; bump; bunch; bus; bush; butter; butterfly; button; cabin; cage; cake; call; camera; camp; camping; can; cancer; cap; capital; captain; capture; car; card; cardboard; cardigan; care; career; carpet; carrot; cartoon; case; cash; cast; castle; cat; cattle; cave; ceiling; celebration; cell; cent; centimetre; centre; century; cereal; ceremony; chain; chair; challenge; champion; championship; chance; change; channel; chaos; chapter; character; charge; charm; chat; check; cheek; cheer; cheese; chef; cherry; chest; chicken; child; chill; chilli; chimney; chin; chip; chocolate; choice; choir; church; circle; circus; city; class; classic; classmate; classroom; click; cliff; climbing; clinic; clock; cloth; clothes; clothing; cloud; clown; club; clue; coach; coast; coat; code; coffee; cold; coldness; collapse; collar; colour; combination; comedy; comfort; comic; competition; computer; concert; concrete; condition; confidence; connection; contact; container; contest; control; conversation; cook; cookie; cooking; copper;

copy; corner; cost; costume; cottage; cough; country; couple; courage; course; court; cousin; cow; cover; crack; craft; crash; cream; creature; creep; crew; cricket; crime; crisis; cross; crossing; crowd; crush; cry; crystal; cup; cupboard; cure; customs; cut; dad; damage; dance; dancer; dancing; danger; darkness; darling; dash; date; daughter; day; daytime; deal; death; deck; deer; defeat; description; desert; designer; dessert; detective; devastation; devil; diamond; diary; dictionary; difference; dinner; dinosaur; directions; dirt; disaster; discipline; disco; disguise; display; distance; distraction; division; doctor; dog; doll; dollar; doom; door; doorway; drama; dream; dress; drink; drive; driver; drop; drum; duck; duty; ear; earth; earthquake; east; edge; effect; egg; elbow; election; electricity; element; elephant; emergency; encouragement; end; enemy; energy; engine; entertainment; entrance; envelope; environment; equipment; escape; estate; evening; evil; exam; examination; example; excitement; excuse; exercise; experience; experiment; exploration; explosion; explosive; expression; extra; eye; face; fact; factory; fair; fake; fall; fame; family; fan; farm; fascination; fashion; fat; father; fault; favourite; fear; february; feeling; fence; festival; fever; field; fifth; fight; fighting; figure; final; fine; finish; fire; firm; fish; fishing; flash; flavour; flight; floor; flower; flu; fly; focus; fog; food; foot; football; force; forehead; forest; form; fountain; fox; frame; freedom; freezer; friday; fridge; friend; fright; frog; fruit; fuel; fun; funeral; fur; furniture; fury; future; game; gang; garage; garden; gardening; gas; gasp; gate; gear; gender; ghost; giant; girl; girlfriend; glass; glasses; glow; glove; go; goal; goat; gold; golf; good; goods; government; grade; grandfather; grandma; grandmother; grandpa; grandson; grant; grasp; grass; grave; green; grey; grin; ground; group; guard; guess; guide; guitar; gum; gun; guts; guy; gym; gymnastics; hail; hair; haircut; hall; ham; hammer; hand; handbag; handball; handle; happiness; harm; hat; hate; head; heading; headquarters; health; heap; heart; heat; heater; heaven; heel; height; helicopter; hell; helmet; help; hero; hill; hip; history; hit; hold; hole; holiday; home; homework; honey; hook; hope; horn; horror; horse; hospital; host; hostel; hotel; hour; house; hug; human; hunt; hunting; hurry; husband; hut; ice; idea; imagination; importance; increase; independence; information; injury; inside; insight; interview; invasion; invention; invitation; island; it; jacket; jail; jam; jar; jazz; jeans; jet; jewel; jewellery; job; journey; joy; judge; juice; july; jump; jumper; june; jungle; junk; kangaroo; kettle; key; kick; kid; killer; killing; kind; king; kingdom; kiss; kitchen; kite; kitten; knee; knife; lab; ladder; lady; lake; lamb; land; landing; lane; language; lap; laptop; laser; laugh; laughter; law; lawn; layer; lead; leader; leaf; league; leak; learning; leave; left; leg; legend; lemon; lemonade; leopard; lesson; letter; lettuce; level; liberty; library; lid; life; lifetime; lift; light; lighting; lightning; line; lion; liquid; list; literacy; litter; living; loaf; local; lock; log; look; lottery; lounge; love; luck; luggage; lump; lunch; lunchtime; lyrics; machine; magic; mail; maker; male; mall; man; manager; mango; mansion; manual; map; march; margin; mark; market; mask; master; mat; match; mate; material; mats; matter; may; meal; means; meat; mechanic; medal; medicine; medium; meeting; mention; mess; message; metal; metre; midnight; milk; mind; mine; miner; minute; mirror; misery; miss; mission; mist; mistake; mix; mixture; model; moment; monday; money; monkey; monopoly; monster; month; mood; morning; mosquito; mother; motor; motorbike; mountain; mouse; mouth; move; movement; movie; mr; mrs; ms; mud; mum; murder; murderer; muscle; museum; music; musical; mystery; name; nap; nation; nature; neck; necklace; need; needle; neighbour; neighbourhood; nephew; nerve; nest; net; news; newspaper; nickname; night; nightmare; noise; north; nose; note; notice; nuisance; number; object; obstacle; occasion; ocean; october; office; officer; official; oil; onion; opening; opponent; opposite; orange; order; orphan; oven; owner; pack; pain; paint; pair; palace; palm; panel; pants; paper; parachute; parade; paradise; parcel; parent; park; parrot; part; party; pass; passage; passenger; passport; pasta; patch; path; patience; pattern; pause; pay; peace; peach; peak; peanut; pear; pen; pencil; penguin; people; pepper; performance; perfume; person; personality; pet; petrol; phone; photo; piano; picnic; picture; pie; piece; pig; pile; pill; pillow; pilot; pin; pink; pipe; pirate; pit; pitch; pizza; place; plan; plane; planet; planning; plant; plastic; plate; platform; play; player; playground; pleasure; plumber; pocket; point; poison; pole; police; policeman; pony; pool; pop; post; poster; pound; powder; power; practice; predator; present; president; pressure; price; prince; princess; principal; print; prison; prize; problem; production; professional; professor; profile; progress; project; promise; property; protection; pulse; pump; punch; punishment; puppy; purple; purpose; purse; push; puzzle; pyjamas; quarter; queen; quest; question; quiet; quiz; rabbit; race; radio; raid; railway; rain; rainbow; raincoat; rainforest; rally; rat; ray; reach; read; reading; realm; reason; recipe; rectangle; red; referee; register; release; remains; rent; reply; reporter; rescue; response; rest; restaurant; return; reward; revenge; ribbon; rice; ride; rider; right; ring; risk; river; road; roar; robbery; robot; rock; rocket; roll; roof; room; root; rope; rose; round; routine; row; rubber; rugby; rule; ruler; rumour; run; running; rush; sack; saddle; sadness; safety; sail; salad; sale; sample; sand; sandwich; saturday; sauce; saucepan; saucer; sausage; saving; saying; scar; scarf; scene; scent; scholarship; school; science; scientist; scissors; scooter; score; scream; screen; sea; search; season; seat; second; secret; section; security; seed; self; sense; september; series; servant; service; set; setting; shade; shadow; shame; shampoo; shape; share; shark; shed; sheep; sheet; shell; shelter; shift; ship; shirt; shock; shoe; shooting; shop; shopping; shore; shorts; shot; shoulder; show; shower; shuttle; sickness; side; sight; sign; signal; silence; silver; simulation; singer; singing; single; sink; sir; siren; sister; site; situation; size; skate; skateboard; skateboarding; skeleton; sketch; ski; skiing; skill; skin; skull; sky; slap; slaughter; slave; sleep; slot; smell; smile; smoke; snack; snake; snow; society; soldier; son; song; sort; soul; sound; soup; south; souvenir; soya; space; spade; speaker; species; speed; spelling; spending; sphere; spider; spine; splash; spoon; sport; spot; spray; spread; spy; squad; square; stable; stadium; staff; stage; staircase; stairs;

stand; star; stardom; start; starvation; state; station; statue; status; stay; steel; step; stick; stitch; stomach; stone; stool; stop; store; storey; storm; story; stranger; strawberry; stream; street; strength; stretch; strike; string; stripe; stroke; stroll; study; stuff; style; subject; substitute; success; sugar; suit; suitcase; sum; summer; summit; sun; sunday; sunlight; sunset; sunshine; supermarket; supply; surface; surfing; surgery; surprise; surroundings; sweat; sweet; sweets; swim; swimming; swing; switch; sword; system; table; tail; tale; talk; talks; tank; tap; target; taste; taxi; tea; teacher; teaching; team; tear; technology; teenager; telescope; television; temper; temperature; temple; tennis; tent; term; terror; test; thanks; theft; theme; thief; thing; third; thought; thrill; throat; throne; thunder; thursday; tick; ticket; tide; tie; tiger; tights; timber; time; tin; tip; toast; today; toe; toilet; tomato; tomorrow; ton; tone; tongue; tonight; tooth; top; topic; torch; tornado; torture; total; touch; tour; tourist; tournament; towel; tower; town; toy; track; tractor; trade; traffic; trail; train; trainer; training; transport; trap; travel; treasure; tree; triangle; trick; trip; trolley; trophy; trouble; truck; trust; try; tube; tuesday; tune; tunnel; turn; turning; tv; twin; type; tyre; umbrella; uncle; underwear; university; use; waist; wait; waitress; walk; walker; walking; wall; valley; van; war; wardrobe; warehouse; warmth; warning; warrior; wash; waste; watch; water; waterfall; wave; way; weapon; weather; web; webcam; wedding; wednesday; weed; week; weekend; vegetable; vegetarian; weight; welcome; velvet; version; west; vet; whale; wheat; wheel; whistle; white; video; widow; view; wife; will; village; win; wind; window; vine; wing; winner; winter; violence; wish; visit; witch; voice; volcano; wolf; volleyball; woman; wood; wool; word; work; worker; world; worm; worry; worse; worst; vote; wreck; wreckage; writer; writing; yard; year; yell; yellow; zip; zone; zoo;

(empty on purpose)

# Appendix AC

As discussed in Subchapter 12.2, we identified 3710 unique nouns in vocabulary A1&A2&B1&B2&C1&C2 of English Vocabulary Profile covering cumulative vocabularies of six language ability levels ranging from A1 to C2 (as of June-July 2013). In hyperlink network of Wikipedia (as of June-July 2013) between these 3710 unique nouns of vocabulary A1&A2&B1&B2&C1&C2 we identified 25153 unique interconnecting hyperlinks containing 2878 unique nouns. Following listing contains all 25153 unique hyperlinks, here notation A>B denotes a hyperlink leading from concept A to concept B (corresponding to a hyperlink leading from Wikipedia article A to Wikipedia article B).

Among 2878 unique concepts the biggest subentity that enabled traversing hyperlink chains between any of concepts belonging to this subentity in hyperlink network of vocabulary A1&A2&B1&B2&C1&C2 when any hyperlink can be traversed in both actual linking direction and opposite direction contained 2850 unique concepts and there were 28 external unique concepts (shown in Appendix AD). 14 unique hyperlinks of 25153 unique interconnecting hyperlinks containing these external 28 unique concepts include: remark>comment, directions>direction, ending>end, exhaust>exhaustion, hole>opening, networking>network, northwest>southeast, programme>program, registration>register, resemblance>similarity, scene>scenery, superiority>superior, terms>term and willingness>will.

All 25153 unique hyperlinks between 3710 unique nouns of vocabulary A1&A2&B1&B2&C1&C2 containing 2878 unique nouns:  
ability>intelligence; ability>skill; abortion>contraceptive; abortion>rape; abortion>terrorism; abuse>accident; abuse>aggression; abuse>anger; abuse>anxiety; abuse>behaviour; abuse>childhood; abuse>consent; abuse>crime; abuse>criticism; abuse>denial; abuse>disability; abuse>discrimination; abuse>dislike; abuse>embarrassment; abuse>exaggeration; abuse>fear; abuse>gang; abuse>gender; abuse>harassment; abuse>harm; abuse>hatred; abuse>health; abuse>human; abuse>humility; abuse>individual; abuse>injustice; abuse>insult; abuse>jealousy; abuse>language; abuse>liberty; abuse>memory; abuse>metaphor; abuse>morale; abuse>neglect; abuse>negligence; abuse>pain; abuse>perception; abuse>persuasion; abuse>prejudice; abuse>pride; abuse>psychology; abuse>racism; abuse>rape; abuse>reputation; abuse>resentment; abuse>respect; abuse>self-esteem; abuse>shame; abuse>skill; abuse>slavery; abuse>solitude; abuse>suffering; abuse>threat; abuse>torture; abuse>vandalism; abuse>violence; accent>drawing; acceptance>anxiety; acceptance>human; acceptance>motivation; acceptance>peer pressure; acceptance>psychology; acceptance>reality; acceptance>self-esteem; acceptance>suffering; accident>injury; accident>leisure; accident>necessity; accident>safety; accident>secret; account>report; accountant>business; accountant>profession; accountant>university; ache>pain; acid>alcohol; acid>aspirin; acid>bacteria; acid>carbon dioxide; acid>cola; acid>dna; acid>fat; acid>gas; acid>liquid; acid>mammal; acid>protein; acid>solution; acid>stomach; acid>vinegar; acre>area; acre>day; acre>metre; acre>yard; act>document; act>pact; act>peace; act>war; actor>celebrity; actor>comic; actor>drama; actor>film; actor>ghost; actor>hypocrisy; actor>opera; actor>person; actor>song; actor>system; actor>television; actor>theatre; actor>tragedy; actor>tragedy; adaptation>behaviour; adaptation>climate; adaptation>crab; adaptation>deer; adaptation>evolution; adaptation>extinction; adaptation>genetics; adaptation>habitat; adaptation>immune system; adaptation>infection; adaptation>learning; adaptation>rat; addict>addiction; addiction>alcohol; addiction>anxiety; addiction>dna; addiction>gambling; addiction>genetics; addiction>motivation; addiction>reasoning; addiction>withdrawal; addition>angle; addition>apple; addition>circle; addition>computer; addition>force; addition>infant; addition>noun; addition>paper; addition>pie; addition>pressure; addition>toddler; addition>verb; adjective>adverb; adjective>clause; adjective>determiner; adjective>grammar; adjective>infinite; adjective>language; adjective>noun; adjective>preposition; adjective>quantity; adjective>verb; administration>management; admiration>awe; admiration>envy; adoption>abortion; adoption>court; adoption>inheritance; adoption>stereotype; adult>biology; adult>child; adult>contract; adult>employment; adult>gambling; adult>law; adult>lottery; adult>marriage; adult>person; adult>resident; adult>prostitute; adult>reproduction; adult>sex; adventure>excitement; adventure>extreme sports; adventure>fear; adventure>learning; adventure>recreation; adventure>risk; adventure>tourism; adverb>adjective; adverb>clause; adverb>comparative; adverb>noun; adverb>superlative; adverb>verb; advert>advertising; advertisement>advertising; advertising>aircraft; advertising>attention; advertising>blog; advertising>brand; advertising>brochure; advertising>camera; advertising>communication; advertising>consumer; advertising>creativity; advertising>design; advertising>female; advertising>gender; advertising>household; advertising>information; advertising>logo; advertising>magazine; advertising>marketing; advertising>message; advertising>newspaper; advertising>persuasion; advertising>poster; advertising>problem; advertising>propaganda; advertising>radio; advertising>reality; advertising>rocket; advertising>tram; advertising>website; advice>advocate; advocate>court; advocate>judge; advocate>law; advocate>lawyer; advocate>profession; advocate>prosecutor; advocate>solicitor; affair>deception; affair>integrity; affair>lie; affair>marriage; affair>sex; affection>communication; affection>emotion; affection>friendship; affection>love; affection>philosophy; affection>psychology; afternoon>evening; afternoon>midday; afternoon>midnight; afternoon>noon; afternoon>summer; age>gold; agent>robot; agent>title; aggression>adaptation; aggression>anger; aggression>animal; aggression>capitalism; aggression>evolution; aggression>fear; aggression>hostility; aggression>injustice; aggression>learning; aggression>peer pressure; aggression>poverty; aggression>property; aggression>resource; aggression>revenge; aggression>survival; aggression>trade; aggression>violence; agreement>consensus; agreement>contract; agreement>disagreement; agreement>treaty; agriculture>ant; agriculture>bean; agriculture>camel; agriculture>carbon dioxide; agriculture>cereal; agriculture>civilization; agriculture>climate; agriculture>climate change; agriculture>cotton; agriculture>donkey; agriculture>drug; agriculture>famine; agriculture>food; agriculture>fruit; agriculture>fuel; agriculture>genetics; agriculture>global warming; agriculture>grain; agriculture>grape; agriculture>harvest; agriculture>insect; agriculture>meat; agriculture>pea; agriculture>perfume; agriculture>plant; agriculture>potato; agriculture>productivity; agriculture>rice; agriculture>riot; agriculture>root; agriculture>satellite; agriculture>silk; agriculture>spice; agriculture>sustainability; agriculture>tobacco; agriculture>tractor; agriculture>vegetable; agriculture>wheat; agriculture>wine; agriculture>wool; aid>capitalism; aid>commerce; aid>country; aid>diplomacy; aid>donation; aid>government; aid>infrastructure; aid>interaction; aid>loan; aid>penguin; aid>scholar; aid>starvation; aid>transport; aid>vaccine; aid>war; air conditioning>air; air conditioning>biology; air conditioning>carbon; air conditioning>carbon dioxide; air conditioning>central heating; air conditioning>chemistry; air conditioning>climate; air conditioning>construction; air conditioning>cooking; air conditioning>frost; air conditioning>gas; air conditioning>hospital; air conditioning>ice; air conditioning>infection; air conditioning>invention; air conditioning>inventor; air conditioning>laboratory; air conditioning>liquid; air conditioning>mining; air conditioning>oxygen; air conditioning>ozone; air conditioning>pressure; air conditioning>sun; air conditioning>system; air conditioning>temperature; air force>balloon; air force>bomber; air force>missile; aircraft>air; aircraft>airport; aircraft>atmosphere; aircraft>balloon; aircraft>bomber; aircraft>cargo; aircraft>flight; aircraft>helicopter; aircraft>human; aircraft>kite; aircraft>landing; aircraft>missile; aircraft>rocket; aircraft>wind; aircraft>wing; airline>aircraft; airline>airport; airline>cargo; airline>corporation; airline>fuel; airline>mail; airline>partnership; airline>passenger; airline>takeover; airline>travel; airport>accident; airport>agriculture; airport>aircraft; airport>airline; airport>bird; airport>brake; airport>concrete; airport>corporation; airport>erosion; airport>film; airport>flood; airport>fog; airport>government; airport>grass; airport>helicopter; airport>hotel; airport>ice; airport>immigration; airport>landing; airport>mountain; airport>navy; airport>politician; airport>public transport; airport>radio; airport>rain; airport>road; airport>runway; airport>snow; airport>terrorism; airport>tree; airport>weather; alarm clock>clock; alarm clock>nap; alarm clock>radio; alarm clock>sleep; alarm clock>time; album>lyrics; alcohol>acid; alcohol>alcoholic; alcohol>carbon; alcohol>carbon dioxide; alcohol>chemistry; alcohol>cholesterol; alcohol>metal; alcohol>oxygen; alcohol>perfume; alcohol>salt; alcohol>soap; allegation>complaint; allegation>fact; alliance>airline; alliance>contract; alliance>friendship; alliance>pact; alliance>treaty; allowance>supermarket; alphabet>consonant; alphabet>language; alphabet>spelling; alphabet>syllable; alphabet>turkey; alphabet>vowel; aluminium>adaptation; aluminium>bacteria; aluminium>bicycle; aluminium>carbon; aluminium>coin; aluminium>concrete; aluminium>copper; aluminium>density; aluminium>deodorant; aluminium>digestion; aluminium>door; aluminium>earth; aluminium>glass; aluminium>gold; aluminium>iron; aluminium>leather; aluminium>metal; aluminium>mirror; aluminium>ocean; aluminium>oxygen; aluminium>paint; aluminium>recycling; aluminium>rubber; aluminium>silver; aluminium>steel; aluminium>tin; aluminium>transport; aluminium>truck; aluminium>water; aluminium>wheat; aluminium>>window; aluminium>year; amateur>astronomy; amateur>baseball; amateur>basketball; amateur>boxing; amateur>hobby; amateur>professional; ambassador>diplomacy; ambassador>diplomat; ambassador>embassy; ambiguity>bank; ambiguity>creativity; ambiguity>dimension; ambiguity>gain; ambiguity>jargon; ambiguity>leadership; ambiguity>literature; ambiguity>logic; ambiguity>metre; ambiguity>music; ambiguity>paradox; ambiguity>pharmacist; ambiguity>pharmacy; ambiguity>philosopher; ambiguity>physics; ambiguity>prefix; ambiguity>rhythm; ambiguity>sadness; ambiguity>science; ambiguity>suffix; ambiguity>uncertainty; ambiguity>vocabulary; ambulance>air conditioning; ambulance>bicycle; ambulance>disaster; ambulance>electronics; ambulance>firefighter; ambulance>fuel; ambulance>helicopter; ambulance>illness; ambulance>injury; ambulance>mobile phone; ambulance>tank; ambulance>traffic light; ambulance>weapon; ambulance>vehicle; ambulance>wheelchair; amendment>constitution; amendment>contract; amendment>law; amendment>motion; amendment>parliament; amendment>referendum; amendment>verb; amount>quantity; amusement>employment; amusement>entertainment; amusement>experience; amusement>happiness; amusement>humour; amusement>laughter; amusement>pleasure; analogy>argument; analogy>atom; analogy>authority; analogy>common sense; analogy>communication; analogy>creativity; analogy>culture; analogy>emotion; analogy>evolution; analogy>explanation; analogy>fight; analogy>god; analogy>idiom; analogy>information; analogy>insect;

analogy>language; analogy>law; analogy>logic; analogy>memory; analogy>message; analogy>metaphor; analogy>perception; analogy>philosophy; analogy>politics;  
analogy>precedent; analogy>probability; analogy>proverb; analogy>psychology; analogy>role; analogy>science; analogy>software; analogy>sun; analogy>truth; analogy>verb;  
analogy>writing; analysis>chemistry; analysis>complexity; analysis>electronics; analysis>engineering; analysis>geology; analysis>language; analysis>literature; analysis>logic;  
analysis>mixture; analysis>police; analysis>statistics; ancestor>bacteria; ancestor>dna; ancestor>evolution; ancestor>genetics; ancestor>grandparent; ancestor>parent;  
anchor>cable; anchor>chain; anchor>rope; anchor>storm; angel>atmosphere; angel>earth; angel>evolution; angel>gender; angel>global warming; angel>god; angel>heaven;  
angel>hell; angel>icon; angel>matter; angel>nature; angel>planet; angel>religion; angel>spirit; angel>star; angel>sun; angel>time; angel>aggression; angel>anger; angel>appetite;  
anger>criticism; anger>devil; anger>discrimination; anger>emotion; anger>evaluation; anger>god; anger>gossip; anger>hatred; anger>hostility; anger>humility; anger>infection;  
anger>intelligence; anger>negotiation; anger>pain; anger>perception; anger>punishment; anger>rage; anger>rape; anger>resentment; anger>revenge; anger>selfishness;  
anger>sense; anger>society; anger>statistics; anger>threat; anger>violence; anger>virtue; angle>ankle; angle>astronomy; angle>curve; angle>earth; angle>geography;  
angle>kilometre; angle>star; angle>surface; angle>triangle; animal>bacteria; animal>body; animal>bone; animal>breath; animal>carbon dioxide; animal>coral; animal>digestion;  
animal>evolution; animal>extinction; animal>fish; animal>gene; animal>lung; animal>mammal; animal>muscle; animal>oxygen; animal>protein; animal>reptile; animal>sunlight;  
animal>trait; animation>blackboard; animation>camera; animation>computer; animation>glass; animation>illusion; animation>light; animation>software; animation>the internet;  
ankle>foot; ankle>joint; ankle>pain; anniversary>birthday; anniversary>constitution; anniversary>day; anniversary>millennium; anniversary>saint; annoyance>anger;  
annoyance>distraction; annoyance>emotion; annoyance>frustration; annoyance>thought; answer>complaint; answer>imprisonment; answer>information; answer>lawyer;  
answer>punishment; answer>question; answer>reply; ant>adaptation; ant>animal; ant>bee; ant>carbon dioxide; ant>civilization; ant>earth; ant>ecology; ant>evolution; ant>human;  
ant>insect; ant>mammal; ant>muscle; ant>predator; ant>region; ant>soil; ant>trail; ant>wasp; antique>bronze; antique>pine; anxiety>authority; anxiety>digestion; anxiety>fear;  
anxiety>headache; anxiety>immune system; anxiety>reality; anxiety>self-esteem; anxiety>symptom; anxiety>terror; anxiety>tradition; apartment>bathroom; apartment>bedroom;  
apartment>brick; apartment>building; apartment>furniture; apartment>house; apartment>laundry; apartment>loft; apartment>parking; apartment>pet; apartment>telephone;  
apartment>theft; apartment>waste; apostrophe>advertising; apostrophe>definite article; apostrophe>dice; apostrophe>hyphen; apostrophe>noun; apostrophe>penny;  
apostrophe>plural; apostrophe>punctuation; apostrophe>suffix; apostrophe>vandalism; apostrophe>vowel; appeal>law; appetite>brain; appetite>food; appetite>obesity;  
applause>audience; applause>comedian; applause>concert; applause>golf; applause>jazz; applause>news; applause>opera; applause>prime minister; applause>television;  
apple>ancestor; apple>carbon dioxide; apple>evil; apple>fruit; apple>leaf; apple>obesity; apple>oxygen; apple>plant; apple>proverb; apple>seed; apple>tree; apple>turkey;  
apple>vinegar; application>question; april>autumn; april>month; april>october; arch>concrete; arch>erosion; arch>structure; archaeologist>archaeology; archaeology>agriculture;  
archaeology>analysis; archaeology>architecture; archaeology>astronomy; archaeology>bureaucracy; archaeology>camera; archaeology>cereal; archaeology>chemistry;  
archaeology>computer; archaeology>construction; archaeology>elite; archaeology>evolution; archaeology>geography; archaeology>geology; archaeology>history;  
archaeology>human; archaeology>hypothesis; archaeology>iron; archaeology>kite; archaeology>library; archaeology>literacy; archaeology>map; archaeology>physics;  
archaeology>plant; archaeology>religion; archaeology>science; archaeology>statistics; archaeology>tool; architect>architecture; architect>artist; architect>construction;  
architect>engineer; architect>engineering; architect>profession; architecture>architect; architecture>artist; architecture>building; architecture>construction; architecture>craft;  
architecture>design; architecture>engineer; architecture>engineering; architecture>lighting; architecture>planning; architecture>structure; architecture>sustainability;  
architecture>system; area>acre; area>addition; area>analogy; area>analysis; area>circle; area>definition; area>formula; area>inch; area>length; area>metre; area>paint;  
area>quantity; area>rectangle; area>shape; area>sphere; area>surface; area>triangle; area>volume; argument>analogy; argument>evidence; argument>inquiry; argument>logic;  
argument>philosophy; argument>proposition; argument>reason; argument>truth; argument>validity; arm>elbow; arm>hand; arm>shoulder; arm>wrist; army>air force; army>nation;  
army>soldier; army>troops; army>war; army>veteran; arrangement>cello; arrangement>guitar; arrangement>orchestra; arrangement>violin; arrest>crime; arrest>detective;  
arrest>liberty; arrest>police; arrest>police station; arrest>riot; arrest>unemployment; arrow>aluminium; arrow>blood; arrow>bone; arrow>copper; arrow>feather; arrow>gram;  
arrow>human; arrow>inches; arrow>plastic; arrow>quarrel; arrow>wood; art>architecture; art>beauty; art>cancer; art>coin; art>cooking; art>craft; art>creativity; art>dance; art>design;  
art>dvd; art>emotion; art>farming; art>film; art>globalization; art>human; art>language; art>literature; art>medicine; art>music; art>nature; art>painting; art>peasant; art>philosophy;  
art>photography; art>pollution; art>propaganda; art>sculpture; art>shape; art>theatre; artificial intelligence>computer; artificial intelligence>consciousness; artificial  
intelligence>cooperation; artificial intelligence>creativity; artificial intelligence>empathy; artificial intelligence>firm; artificial intelligence>logic; artificial intelligence>mind; artificial  
intelligence>paradigm; artificial intelligence>perception; artificial intelligence>probability; artificial intelligence>psychology; artificial intelligence>uncertainty; artist>actor;  
artist>animation; artist>architect; artist>art; artist>astronomy; artist>ballet; artist>beauty; artist>chemistry; artist>comedy; artist>craft; artist>creativity; artist>criticism; artist>culture;  
artist>dance; artist>dancing; artist>design; artist>doll; artist>drawing; artist>entertainer; artist>entertainment; artist>fiction; artist>history; artist>innovation; artist>lyrics;  
artist>medicine; artist>music; artist>musician; artist>painting; artist>photography; artist>poetry; artist>pottery; artist>project; artist>sculpture; artist>singing; artist>skill; artist>speech;  
artist>technician; artist>technology; artist>tragedy; artist>writing; aspiration>hope; aspirin>acid; aspirin>bar; aspirin>cancer; aspirin>decade; aspirin>experiment; aspirin>fever;  
aspirin>gender; aspirin>heart attack; aspirin>kidney; aspirin>liver; aspirin>medication; aspirin>protein; aspirin>stomach; aspirin>stroke; aspirin>vinegar; assault>arrest;  
assault>boxing; assault>police; assault>pride; assault>rape; assault>terrorism; assembly>manufacturing; assembly>meeting; asset>building; asset>cash; asset>currency;  
asset>economics; asset>furniture; asset>insurance; asset>investment; asset>machinery; asset>ownership; asset>stock; asset>wealth; asset>website; assistance>aid;  
assumption>proposition; assurance>insurance; astronomy>archaeology; astronomy>atmosphere; astronomy>atom; astronomy>calendar; astronomy>chemical;  
astronomy>chemistry; astronomy>earth; astronomy>erosion; astronomy>light; astronomy>matter; astronomy>photography; astronomy>physics; astronomy>planet;  
astronomy>radio; astronomy>star; astronomy>sun; astronomy>telescope; astronomy>temperature; astronomy>tornado; astronomy>trace; astronomy>wave; athletics>sport;  
atmosphere>carbon dioxide; atmosphere>climate; atmosphere>dust; atmosphere>earth; atmosphere>evolution; atmosphere>force; atmosphere>gas; atmosphere>oxygen;  
atmosphere>planet; atmosphere>radiation; atmosphere>sky; atmosphere>space; atmosphere>sunlight; atmosphere>wind; atom>carbon; atom>carbon dioxide; atom>chemist;  
atom>chemistry; atom>crystal; atom>diamond; atom>distance; atom>earth; atom>experiment; atom>force; atom>gas; atom>gold; atom>iron; atom>laser; atom>lead; atom>light;  
atom>liquid; atom>matter; atom>metal; atom>minimum; atom>momentum; atom>oxygen; atom>ozone; atom>particle; atom>pressure; atom>salt; atom>spectrum; atom>star;  
atom>temperature; atom>tin; atom>water; attachment>virus; attempt>arrest; attempt>crime; attempt>impossibility; attempt>judge; attempt>jury; attempt>liberty; attempt>police;  
attention>distraction; attention>education; attention>philosophy; attention>psychology; attention>sense; attribute>database; auction>business; auction>cattle;  
auction>commodity; auction>corporation; auction>debt; auction>fee; auction>marriage; auction>timber; auction>trade; auction>wool; audience>blog; audience>criticism;  
audience>literature; audience>music; audience>performance; audience>person; audience>review; audience>scholar; audience>software; audience>theatre; audience>video game;  
audition>actor; audition>comedy; audition>dancer; audition>jazz; audition>musician; audition>opera; audition>orchestra; audition>singer; audition>song; august>february;  
august>harvest; august>january; august>march; august>month; august>tribe; august>year; aunt>nephew; aunt>niece; aunt>sister-in-law; aunt>uncle; author>existence;  
author>manufacturing; author>novel; author>person; author>writer; authority>court; authority>crowd; authority>dominance; authority>government; authority>persuasion;  
authority>prayer; authority>revolution; autumn>apple; autumn>baseball; autumn>cherry; autumn>harvest; autumn>night; autumn>oak; autumn>season; autumn>summer;  
autumn>winter; availability>system; award>badge; award>championship; award>medal; award>prize; award>trophy; awareness>animal; awareness>attention; awareness>brain;  
awareness>concept; awareness>consciousness; awareness>experience; awareness>idea; awareness>mind; awareness>pattern; awareness>perception; awareness>self-  
awareness; awareness>understanding; awe>anger; awe>curiosity; awe>dinosaur; awe>embarrassment; awe>emotion; awe>enjoyment; awe>fear; awe>happiness; awe>love;  
awe>pride; awe>sadness; baby>infant; background>heritage; backpack>camera; backpack>dialect; backpack>hand; backpack>handbag; backpack>hip; backpack>laptop;  
backpack>luggage; backpack>plastic; backpack>shoulder; backpack>skateboard; backpack>student; backpack>suitcase; backpacker>backpack; backpacker>hostel;  
backpacking>backpacker; backup>cd; backup>data; backup>dvd; backup>raid; bacon>beef; bacon>chicken; bacon>fat; bacon>goat; bacon>ham; bacon>pizza; bacon>potato;  
bacon>salad; bacon>salt; bacon>sausage; bacon>skin; bacon>teaspoon; bacteria>agriculture; bacteria>antibiotic; bacteria>blood; bacteria>carbon; bacteria>carbon dioxide;  
bacteria>carbon monoxide; bacteria>cheese; bacteria>disease; bacteria>dna; bacteria>earth; bacteria>evolution; bacteria>genetics; bacteria>habitat;  
bacteria>immune system; bacteria>infection; bacteria>medicine; bacteria>nose; bacteria>oxygen; bacteria>plant; bacteria>pollution; bacteria>protein; bacteria>root; bacteria>skin;  
bacteria>sphere; bacteria>wildlife; bacteria>wine; bacteria>vinegar; bacteria>virus; bacteria>vitamin; bacteria>yogurt; badge>detective; badge>leather; badge>metal; badge>plastic;  
badge>police; badge>uniform; badminton>competition; badminton>leather; badminton>rubber; badminton>table tennis; badminton>tennis; bag>backpack; bag>basket; bag>berry;  
bag>cloth; bag>clothing; bag>cookie; bag>free; bag>hand; bag>handbag; bag>leather; bag>money; bag>paper; bag>plastic; bag>pocket; bag>purse; bag>shopping; bag>suitcase;  
bag>tea; bag>tool; bag>travel; baggage>aeroplane; baggage>clothing; baggage>fashion; baggage>passenger; baggage>souvenir; baggage>suitcase; baggage>tourist;  
baggage>transport; baker>oven; baker>recipe; baker>supermarket; bakery>baker; bakery>bread; bakery>cake; bakery>employment; baker>fast food; baker>flour; baker>landlord;  
baker>loaf; baker>oven; baker>recipe; baker>supermarket; bakery>baker; bakery>bread; bakery>caf ; bakery>cake; bakery>coffee; bakery>establishment; bakery>flour;  
bakery>oven; bakery>retail; bakery>tea; balcony>column; ball>cricket; ball>engineering; ball>football; ball>kitten; ball>puppy; ball>rubber; ball>sphere; ballet>music;  
ballet>orchestra; ballet>singing; balloon>density; balloon>gas; balloon>oxygen; balloon>pump; balloon>solution; balloon>stomach; banana>agriculture; banana>archaeology;  
banana>bark; banana>carpet; banana>coconut; banana>coffee; banana>cooking; banana>farmer; banana>fruit; banana>income; banana>mango;  
banana>pancake; banana>potato; banana>sand; banana>silk; banana>spirit; banana>sunlight; banana>supermarket; banana>taste; banana>tree; banana>umbrella;  
banana>water; banana>vegetable; banana>virus; band>strap; bang>exclamation mark; bank account>credit card; bank>check; bank>cheque; bank>credit card; bank>debit card;  
bank>debt; bank>economy; bank>finance; bank>interest; bank>loan; bank>money; bank>overdraft; banker>bank; banking>bank; barbecue>beef; barbecue>casserole;  
barbecue>chicken; barbecue>goat; barbecue>pig; barbecue>pork; barbecue>sausage; barbecue>vinegar; barber>beard; barber>comb; barber>dentist; barber>hairstresser;  
barber>mirror; barber>razor; barber>surgery; barber>vocation; bargain>contract; bark>aspirin; bark>backpack; bark>disease; bark>famine; bark>mango; bark>pine; bark>potato;  
bark>root; bark>rope; bark>spice; bark>tree; bark>vine; bark>wood; barn>cattle; barn>door; barn>farm; barn>harvest; barn>horse; barn>loft; barn>problem; barn>saddle;  
barn>shed; barn>stable; barn>stall; barn>straw; barn>trousers; baseball>baseball; baseball>cricket; baseball>ice hockey; baseball>statistics; basement>central heating;  
basement>coal; basement>door; basement>house; basement>industrialization; basement>leak; basement>renovation; basement>slope; basement>spade; basement>storey;  
basement>tornado; basement>wine; basket>art; basket>laundry; basket>material; basketball>disability; basketball>peach; basketball>playground; basketball>wheelchair;  
bat>animal; bat>bird; bat>blood; bat>death; bat>disease; bat>ear; bat>evolution; bat>eye; bat>fish; bat>flesh; bat>flight; bat>flower; bat>fog; bat>food; bat>fruit; bat>genetics;  
bat>ghost; bat>hero; bat>hunting; bat>insect; bat>mammal; bat>mosquito; bat>novel; bat>owl; bat>rabbit; bat>skeleton; bat>skin; bat>sof; bat>toe; bat>tongue; bat>vein;  
bat>wife; bat>wing; bathroom>carpet; bathroom>comb; bathroom>heater; bathroom>mat; bathroom>mirror; bathroom>shower; bathroom>sink; bathroom>soap;  
bathroom>toilet; bathroom>towel; battle>aircraft; battle>army; battle>castle; battle>combat; battle>earth; battle>geography; battle>helicopter; battle>information; battle>politics;  
battle>radio; battle>sea; battle>space; battle>strategy; battle>tank; battle>transport; battle>war; battle>weapon; bay>anchor; bay>coast; bay>fish; bay>fishing; bay>lake; bay>pond;  
bay>port; bay>sea; bay>trade; beach>coast; beach>erosion; beach>sand; beach>shore; beach>waste; beach>wave; beak>bone; beak>evolution; beak>nostril; beak>owl;  
beak>reptile; beak>shield; beak>skull; beak>tooth; bean>bacteria; bean>cabbage; bean>cholesterol; bean>iron; bean>oil; bean>pea; bean>protein; bean>seed; bean>vinegar;  
bean>animal; bean>ant; bean>bicycle; bean>continent; bean>dna; bean>dog; bean>extinction; bean>fishing; bean>habitat; bean>hug; bean>hunting; bean>insect; bean>mammal;  
bean>nickname; bean>polar bear; bean>species; bean>stock market; bean>tiger; bean>tribe; bear>wolf; beard>barber; beard>boxing; beard>cheek; beard>chin; beard>evolution;  
beard>goat; beard>government; beard>hair; beard>honour; beard>moustache; beard>neck; beard>philosopher; beard>politics; beard>razor; beard>religion; beard>scissors;  
beauty>charisma; beauty>elegance; beauty>harmony; beauty>idea; beauty>integrity; beauty>intelligence; beauty>nature; beauty>perception; beauty>pleasure; beauty>politeness;  
beauty>ratio; bed>baby; bed>blanket; bed>bronze; bed>clothing; bed>curtain; bed>door; bed>duvet; bed>fur; bed>furniture; bed>gold; bed>hair; bed>hospital; bed>infant;  
bed>iron; bed>leaf; bed>leather; bed>linen; bed>marriage; bed>metal; bed>parliament; bed>pillow; bed>silk; bed>silver; bed>skin; bed>sleep; bed>street; bed>throne; bed>velvet;  
bed>wood; bed>wool; bedroom>apartment; bedroom>bathroom; bedroom>bookcase; bedroom>carpet; bedroom>chest of drawers; bedroom>wardrobe;  
bee>advertising; bee>ant; bee>banana; bee>butterfly; bee>coconut; bee>disease; bee>evolution; bee>flower; bee>fly; bee>gardener; bee>honey; bee>insect; bee>mosquito;  
bee>plant; bee>predator; bee>protein; bee>rice; bee>society; bee>wasp; bee>wood; beef>bacteria; beef>barbecue; beef>brain; beef>cattle; beef>cooking; beef>curry;  
beef>economics; beef>grain; beef>heart; beef>iron; beef>kidney; beef>leather; beef>liver; beef>meat; beef>milk; beef>muscle; beef>oven; beef>pork; beef>reproduction;

beef>sausage; beef>steak; beef>supermarket; beef>vinegar; beer>antibiotic; beer>bread; beer>cancer; beer>carbon dioxide; beer>cholesterol; beer>fat; beer>manufacturing; beer>protein; beer>soft drink; beer>stroke; beer>sugar; beer>tea; beer>thermometer; belief>advertising; belief>faith; belief>idea; belief>knowledge; belief>opinion; belief>proposition; belief>religion; belief>suggestion; belief>truth; benefit>consideration; benefit>economics; benefit>insurance; benefit>law; benefit>system; benefits>well-being; berry>banana; berry>cherry; berry>fruit; berry>grape; berry>lemon; berry>olive; berry>poison; berry>potato; berry>seed; berry>skin; berry>strawberry; berry>tomato; bestseller>advertising; bestseller>book; bestseller>chart; bestseller>fiction; bestseller>film; bestseller>marketing; bestseller>novel; bestseller>professor; bestseller>publicity; bestseller>publisher; bestseller>retailer; bet>gambling; bias>audience; bias>employment; bias>government; bias>journalist; bias>ownership; bias>preference; bias>prejudice; bias>racism; bicycle>carbon dioxide; bicycle>cycling; bicycle>hand; bicycle>mail; bicycle>recreation; bicycle>sport; bicycle>transport; bikes>vehicle; bike>bicycle; bikini>cotton; bikini>fashion; bikini>shower; bikini>surfing; bikini>tight; bikini>tights; bill>beak; bill>menu; bill>police; bill>poster; biography>literacy; biography>priest; biography>saint; biology>aggression; biology>agriculture; biology>animal; biology>bacteria; biology>cancer; biology>climate; biology>climate change; biology>dna; biology>earth; biology>ecology; biology>energy; biology>essay; biology>evolution; biology>food; biology>gene; biology>genetics; biology>habitat; biology>human; biology>immune system; biology>life; biology>medicine; biology>plant; biology>population; biology>protein; biology>psychology; biology>species; bird>adaptation; bird>agriculture; bird>bacteria; bird>beak; bird>blindness; bird>cat; bird>chicken; bird>crocodile; bird>dinosaur; bird>dog; bird>dolphin; bird>duck; bird>eagle; bird>ear; bird>evolution; bird>extinction; bird>feather; bird>heart; bird>hunting; bird>insect; bird>kidney; bird>owl; bird>parrot; bird>penguin; bird>predator; bird>reptile; bird>season; bird>snake; bird>sound; bird>swan; bird>tuna; bird>wing; birth>baby; birth>birthday; birth>death; birth>health care; birth>horizon; birth>life; birth>mother; birth>nerve; birth>offspring; birth>pregnancy; birth>sky; birth>sun; birth>surgery; birth>twin; birth>virgin; birthday>anniversary; birthday>cake; birthday>holiday; biscuit>bean; biscuit>breakfast; biscuit>chocolate; biscuit>cookie; biscuit>cooking; biscuit>dictionary; biscuit>digestion; biscuit>flour; biscuit>sandwich; biscuit>sausage; bit>communication; bit>credit card; bit>dna; bit>information; bit>traffic light; bite>animal; bite>bat; bite>cat; bite>dog; bite>flesh; bite>food; bite>infection; bite>mouth; bite>rabbit; bite>wildlife; bite>wolf; bite>wound; black>atom; black>blackmail; black>cherry; black>chess; black>clinch; black>coal; black>cream; black>copper; black>crime; black>darkness; black>death; black>devil; black>drawing; black>elegance; black>evil; black>god; black>heat; black>ink; black>iron; black>leopard; black>light; black>night; black>oak; black>peach; black>physics; black>sin; black>tree; black>white; blackboard>paint; blackboard>writing; blackmail>gossip; blackmail>robbery; blade>area; blade>bone; blade>butcher; blade>chef; blade>force; blade>hammer; blade>knife; blade>leather; blade>machine; blade>pizza; blade>plastic; blade>predator; blade>pressure; blade>prey; blade>steel; blade>stone; blade>sword; blade>tool; blade>toughness; blade>weapon; blade>abuse; blade>accident; blade>anxiety; blade>crime; blade>denial; blade>hierarchy; blade>organization; blade>praise; blade>propaganda; blade>remorse; blade>safety; blade>shame; blanket>cotton; blanket>duvet; blanket>firefighter; blanket>linen; blanket>picnic; blanket>saddle; blanket>sleep; blanket>soil; blanket>wool; blend>dictionary; blend>root; blend>smog; blend>suffix; blindness>calculator; blindness>camera; blindness>coin; blindness>elephant; blindness>euro; blindness>mammal; blindness>mobile phone; blindness>poverty; blindness>rabbit; blindness>tennis; blindness>thermometer; blindness>torture; blister>blood; blister>friction; blister>skin; blog>advertising; blog>brand; blog>business; blog>corporation; blog>family; blog>forgery; blog>journalist; blog>marketing; blog>mobile phone; blog>newspaper; blog>university; blog>web page; blog>website; blogger>blog; blood>ancestor; blood>animal; blood>antibiotic; blood>blue; blood>breath; blood>carbon dioxide; blood>carbon monoxide; blood>copper; blood>film; blood>heart; blood>heat; blood>immune system; blood>infection; blood>injury; blood>insect; blood>iron; blood>kidney; blood>litre; blood>live; blood>lung; blood>meat; blood>mosquito; blood>oxygen; blood>protein; blood>tobacco; blood>water; blood>vein; blood>virus; blood>atmosphere; blue>basketball; blue>boy; blue>cold; blue>colour; blue>copper; blue>denim; blue>green; blue>ice; blue>ice hockey; blue>ink; blue>jazz; blue>jeans; blue>laser; blue>oxygen; blue>pink; blue>police; blue>red; blue>sadness; blue>sea; blue>sky; blue>sunrise; blue>sunset; blue>truth; blue>water; blue>winter; blue>yellow; board game>cd; board game>chess; board game>dice; board game>diplomacy; board game>dvd; board game>email; board game>game; board game>jargon; board game>lion; board game>luck; board game>material; board game>puzzle; board game>scenario; board game>strategy; board game>symbol; board game>website; board game>video game; board>board game; boat>aluminium; boat>lake; boat>lake; boat>navy; boat>sail; boat>ship; boat>yacht; body>arm; body>burial; body>death; body>disability; body>disease; body>health; body>human; body>insect; body>materialism; body>meat; body>neck; body>spirit; bomb>air force; bomb>bomber; bomb>bridge; bomb>civilian; bomb>clock; bomb>construction; bomb>explosion; bomb>friction; bomb>heat; bomb>mining; bomb>missile; bomb>parachute; bomb>port; bomb>railway; bomb>remote control; bomb>rocket; bomb>runway; bomb>temperature; bomb>train; bomb>transport; bombing>bomb; bond>guarantee; bone>acid; bone>ankle; bone>beak; bone>birth; bone>brain; bone>coral; bone>disease; bone>evolution; bone>exercise; bone>fat; bone>foot; bone>heart; bone>human; bone>joint; bone>kidney; bone>nerve; bone>offspring; bone>protein; bone>rib; bone>skeleton; bone>skull; bone>structure; book>author; book>bookcase; book>business; book>cd-rom; book>controversy; book>desk; book>diary; book>dictionary; book>dvd; book>entertainment; book>fiction; book>homework; book>ink; book>leather; book>library; book>linen; book>literacy; book>literature; book>magazine; book>map; book>market; book>meeting; book>music; book>newspaper; book>notebook; book>novel; book>paper; book>photograph; book>prayer; book>publisher; book>punctuation; book>scientist; book>software; book>student; book>textbook; book>word; book>writer; bookcase>book; bookcase>cupboard; bookcase>furniture; bookcase>iron; bookcase>leather; bookcase>library; bookcase>oak; bookcase>steel; booking>arrest; booking>loan; booking>running; booking>tourism; booklet>book; bookmark>book; bookmark>fabric; bookshelf>bookcase; boost>theft; boot>ankle; boot>blister; boot>fashion; boot>fisherman; boot>foot; boot>hip; boot>ice skating; boot>knee; boot>shoe; boot>skiing; boot>snowboarding; boot>sock; boot>sport; boot>sweat; border>airport; border>alcohol; border>barrier; border>commerce; border>continent; border>export; border>forest; border>geography; border>government; border>immigration; border>import; border>lake; border>ocean; border>passport; border>port; border>river; boss>leadership; boss>management; boss>supervisor; bottle>alcohol; bottle>beer; bottle>cod; bottle>gas; bottle>glass; bottle>ink; bottle>jar; bottle>liquid; bottle>medicine; bottle>milk; bottle>perfume; bottle>plastic; bottle>pressure; bottle>retailer; bottle>rubber; bottle>shampoo; bottle>soft drink; bottle>water; bottle>war; bottom>contradiction; boundary>border; bow>elbow; bow>ribbon; bowl>archaeology; bowl>art; bowl>food; bowl>glass; bowl>metal; bowl>perfume; bowl>plastic; bowl>salad; bowl>wine; bowl>wood; box>carriage; box>circle; box>gift; box>globalization; box>leather; box>match; box>metal; box>pizza; box>plural; box>post office; box>rectangle; box>wood; boxing>fiction; boy>angel; boy>boyfriend; boy>choir; boy>funeral; boy>furniture; boy>gender; boy>girl; boy>goat; boy>human; boy>infant; boy>insult; boy>male; boy>man; boy>nickname; boy>pizza; boy>portrait; boy>racist; boy>sex; boy>sheep; boy>slang; boy>soldier; boy>teenager; boy>toddler; boy>torch; boy>trainee; boy>youth; boyfriend>girlfriend; boyfriend>marriage; boyfriend>wedding; bracelet>ankle; bracelet>archaeology; bracelet>boot; bracelet>cloth; bracelet>hospital; bracelet>leather; bracelet>manufacturing; bracelet>metal; bracelet>necklace; bracelet>plastic; bracelet>wood; bracket>chemistry; bracket>concentration; bracket>full stop; bracket>punctuation; bracket>synonym; brain>alcohol; brain>artificial intelligence; brain>attention; brain>digestion; brain>dog; brain>elephant; brain>evolution; brain>gene; brain>horse; brain>human; brain>insect; brain>learning; brain>medicine; brain>mind; brain>motivation; brain>philosophy; brain>psychology; brain>rat; brain>shark; brain>stroke; brake>air; brake>anchor; brake>friction; brake>heat; brake>vehicle; brake>wheel; branch>cherry; branch>collocation; branch>metaphor; branch>oak; branch>root; branch>synonym; branch>tree; branch>walking; brand>advertising; brand>business; brand>commodity; brand>factory; brand>fashion; brand>industrialization; brand>logo; brand>luggage; brand>marketing; brand>personality; brand>radio; brand>slogan; brand>soap; brand>television; brand>tide; brass>aluminium; brass>bacteria; brass>bronze; brass>coal; brass>coin; brass>copper; brass>dice; brass>friction; brass>glass; brass>iron; brass>lead; brass>metal; brass>orchestra; brass>recycling; brass>tin; brass>trumpet; brass>turkey; bravery>courage; bread>baker; bread>beer; bread>biscuit; bread>burn; bread>carbon dioxide; bread>cereal; bread>curry; bread>fat; bread>flour; bread>food; bread>fruit; bread>frying pan; bread>grape; bread>meat; bread>metaphor; bread>milk; bread>money; bread>onion; bread>oven; bread>pancake; bread>paper; bread>pizza; bread>plastic; bread>protein; bread>rice; bread>rice; bread>sandwich; bread>sausage; bread>seed; bread>soup; bread>spice; bread>sugar; bread>synonym; bread>temperature; bread>toast; bread>water; bread>vegetable; bread>wheat; bread>wine; break>burglary; breakfast>bacon; breakfast>bun; breakfast>butter; breakfast>cereal; breakfast>cheese; breakfast>chocolate; breakfast>coffee; breakfast>ham; breakfast>honey; breakfast>jam; breakfast>lunch; breakfast>mango; breakfast>meal; breakfast>mushroom; breakfast>pancake; breakfast>sausage; breakfast>sweet; breakfast>tea; breakfast>toast; breakfast>tomato; breakfast>yogurt; breakthrough>insight; breast>beauty; breast>cancer; breast>female; breast>infant; breast>milk; breast>nose; breast>obesity; breast>pregnancy; breast>religion; breast>vein; breed>generation; breed>genetics; breed>offspring; breed>plant; breed>population; breed>species; bribe>bribery; bribery>corporation; bribery>cricket; bribery>donation; bribery>duety; bribery>funding; bribery>gambling; bribery>gift; bribery>medication; bribery>money; bribery>patient; bribery>police; bribery>policy; bribery>politician; bribery>privilege; bribery>property; bribery>referee; bribery>sponsorship; brick>chimney; brick>concrete; brick>glass; brick>inch; brick>millimetre; brick>water; brick>wood; bride>death; bride>handbag; bride>luck; bride>red; bride>spouse; bride>virgin; bridge>brick; bridge>laser; bridge>river; bridge>road; bridge>stream; bridge>suicide; bridge>tunnel; bridge>turkey; bridge>valley; broadband>music; broadband>radio; broadband>telecommunications; broadband>telephone; broadband>television; broadband>video; broccoli>bacteria; broccoli>branch; broccoli>cabbage; broccoli>cancer; broccoli>virus; brochure>paper; bronze>aluminium; bronze>blade; bronze>brass; bronze>coin; bronze>copper; bronze>flag; bronze>friction; bronze>gold; bronze>guitar; bronze>hammer; bronze>iron; bronze>medal; bronze>oak; bronze>piano; bronze>silver; bronze>steel; bronze>tin; bronze>toughness; brother>sibling; brother-in-law>husband; brother-in-law>sibling; brother-in-law>sister-in-law; brother-in-law>spouse; brown>autumn; brown>bear; brown>black; brown>chocolate; brown>coffee; brown>dna; brown>humility; brown>ink; brown>iron; brown>oak; brown>rat; brown>red; brown>skin; brown>soil; brown>stone; brown>yellow; bruise>blister; bruise>blood; bruise>blue; bruise>bone; bruise>burn; bruise>death; bruise>head; bruise>heart; bruise>lung; bruise>muscle; bruise>nerve; bruise>pain; bruise>purple; bruise>skin; bruise>surgery; bruise>toenail; brush>artist; brush>camel; brush>comb; brush>copper; brush>goat; brush>hair; brush>ink; brush>paint; brush>painting; brush>plastic; brush>pony; brush>steel; brush>toothbrush; brush>wood; bucket>beach; bucket>bronze; budget>expenses; budget>government; budget>income; budget>project; bug>insect; building>aircraft; building>architect; building>architecture; building>construction; building>earthquake; building>electrician; building>engineering; building>escalator; building>fire; building>funding; building>home; building>house; building>human; building>professional; building>security; building>ship; building>storey; building>structure; building>technology; building>telecommunications; building>transport; bulb>food; bulb>garlic; bulb>leaf; bulb>onion; bulb>root; bulb>camel; bull>cattle; bull>cow; bull>elephant; bull>god; bull>male; bull>sheep; bull>whale; bullet>ball; bullet>brick; bullet>copper; bullet>explosive; bullet>gas; bullet>gram; bullet>lead; bullet>riot; bullet>steel; bullet>tin; bullet>weapon; bun>bread; bun>butter; bun>flour; bun>jam; bun>milk; bun>sugar; bureaucracy>corporation; bureaucracy>transportation; bureaucracy>writing; burglary>crime; burglary>dog; burglary>rape; burglary>theft; burglary>vandalism; burial>accident; burial>ancestor; burial>animal; burial>archaeology; burial>bacteria; burial>banana; burial>bone; burial>butcher; burial>cat; burial>cemetery; burial>child; burial>construction; burial>crime; burial>cross; burial>culture; burial>dog; burial>earthquake; burial>elephant; burial>flood; burial>funeral; burial>infant; burial>marriage; burial>murder; burial>ocean; burial>oven; burial>pet; burial>police; burial>religion; burial>ritual; burial>starvation; burial>suicide; burial>temple; burial>terrorism; burial>tourism; bus station>barrier; bus station>bus; bus station>bus stop; bus station>wheelchair; bus stop>bus station; bus stop>dustbin; bus stop>lighting; bus stop>mobile phone; bus stop>public transport; bus>bicycle; bus>bus station; bus>bus stop; bus>camel; bus>carriage; bus>fair; bus>pan; bus>parade; bus>passenger; bus>playground; bus>police officer; bus>procession; bus>scrap; bus>sightseeing; bus>tour guide; bus>truck; bus>wheelchair; business>advertising; business>agriculture; business>bank; business>banking; business>capitalism; business>commerce; business>company; business>consumer; business>corporation; business>customer; business>economics; business>economy; business>finance; business>government; business>home; business>industry; business>insurance; business>investment; business>management; business>manufacturer; business>manufacturing; business>marketing; business>mining; business>money; business>organization; business>partnership; business>restaurant; business>retail; business>stock market; business>trade; business>transport; business>transportation; business>treaty; butcher>culture; butcher>manufacturing; butcher>nationality; butcher>retail; butcher>supermarket; butcher>vocation; butter>acid; butter>beef; butter>cake; butter>cream; butter>cheese; butter>cholesterol; butter>cookie; butter>cooking; butter>cream; butter>dessert; butter>fat; butter>goat; butter>herb; butter>ice; butter>mammal; butter>milk; butter>pastry; butter>peasant; butter>pie; butter>potato; butter>protein; butter>sauce; butter>sheep; butter>spice; butter>sugar; butter>tea; butter>teaspoon; butter>wine; butter>vinegar; butter>yellow; butterfly>animal; butterfly>bee; butterfly>head; butterfly>insect; butterfly>predator; butterfly>species; butterfly>antique; button>archaeology; button>brass; button>clothing; button>copper; button>drug; button>fabric; button>fashion; button>ink; button>linen; button>memorial; button>painting; button>plastic; button>sculpture; button>shirt; button>wood; buyer>asset; buyer>consideration; buyer>customer; cabbage>broccoli; cabbage>cash; cabbage>pea; cabbage>selection; cabbage>species; cabbage>tobacco; cabbage>wheat; cabin>cottage; cable>cotton; cable>fire; cable>gold; cable>ice; cable>lead; cable>tin; cable>wire; cable>anniversary; cake>birthday; cake>bread; cake>butter; cake>chocolate; cake>dessert; cake>extract; cake>flour; cake>food; cake>milk; cake>pastry; cake>pie; cake>poet; cake>strawberry; cake>sugar; cake>water; cake>wedding; calculator>calculator; calculator>computer; calculator>memory; calculator>statistics; calculator>student; calendar>ad; calendar>agriculture; calendar>business; calendar>century; calendar>cheque; calendar>clock; calendar>day; calendar>decade; calendar>family; calendar>judge; calendar>lawyer; calendar>millennium; calendar>month; calendar>night; calendar>season; calendar>sun; calendar>sunrise; calendar>sunset; calendar>tide; calendar>time; calendar>week; calendar>year; calf>abortion; calf>auction; calf>camel; calf>cattle; calf>cow; calf>dolphin; calf>elephant; calf>farming; calf>giraffe; calf>human; calf>mammal; calf>whale;



camel>animal; camel>body; camel>butter; camel>ice cream; camel>immune system; camel>iron; camel>kidney; camel>mammal; camel>milk; camel>year; camel>yogurt; camera>architecture; camera>digital camera; camera>image; camera>light; camera>photograph; camera>photography; camera>video; camp>campsite; camp>campus; camp>cottage; campaign>video game; camping>air conditioning; camping>aircraft; camping>backpack; camping>bear; camping>blanket; camping>boot; camping>campsite; camping>candle; camping>civilization; camping>climbing; camping>cold; camping>cotton; camping>electricity; camping>family; camping>fishing; camping>food; camping>friendship; camping>frying pan; camping>hammer; camping>heat; camping>homelessness; camping>insect; camping>raincoat; camping>recreation; camping>rope; camping>safety; camping>snow; camping>social networking; camping>tent; camping>toilet; camping>towel; camping>water; camping>wind; camping>woodland; camping>wool; campsite>camping; campsite>electricity; campsite>hotel; campsite>picnic; campsite>road; campsite>shower; campsite>tent; campsite>vehicle; campus>college; campus>hospital; campus>lecture; campus>library; campus>university; can>toilet; canal>agriculture; canal>bridge; canal>globalization; canal>historian; canal>infrastructure; canal>lake; canal>ocean; canal>river; canal>ship; canal>telecommunications; canal>transport; canal>tunnel; cancer>abortion; cancer>alcohol; cancer>aspirin; cancer>bacteria; cancer>blood; cancer>bone; cancer>coffee; cancer>cough; cancer>crab; cancer>diagnosis; cancer>disease; cancer>dna; cancer>evolution; cancer>fat; cancer>fever; cancer>gene; cancer>immune system; cancer>infection; cancer>kidney; cancer>liver; cancer>lung; cancer>mobile phone; cancer>nerve; cancer>obesity; cancer>optimism; cancer>probability; cancer>protein; cancer>radiation; cancer>rib; cancer>salt; cancer>smoking; cancer>sun; cancer>surgery; cancer>symptom; cancer>tobacco; cancer>vaccine; cancer>virus; cancer>vitamin; cancer>x-ray; candidate>award; candidate>ceremony; candidate>debate; candidate>election; candidate>law; candidate>nomination; candidate>office; candidate>official; candidate>white; candle>chemical; candle>consumer; candle>fire; candle>flame; candle>fuel; candle>honey; candle>lead; candle>light; candle>oxygen; candle>property; candle>reach; candle>regulation; candle>religion; candle>risk; candle>safety; candle>scent; candle>standard; candle>time; candle>volume; capital>capital letter; capital>capitalism; capitalism>asset; capitalism>cattle; capitalism>coal; capitalism>commerce; capitalism>consumer; capitalism>corporation; capitalism>democracy; capitalism>economics; capitalism>factory; capitalism>globalization; capitalism>government; capitalism>history; capitalism>incentive; capitalism>inflation; capitalism>infrastructure; capitalism>investor; capitalism>market; capitalism>monopoly; capitalism>peasant; capitalism>policy; capitalism>recession; capitalism>slavery; capitalism>socialism; capitalism>subsidy; capitalism>tax; capitalism>trade; capitalism>unemployment; capitalism>well-being; captain>commander; carbon dioxide>acid; carbon dioxide>alcohol; carbon dioxide>atom; carbon dioxide>bacteria; carbon dioxide>beer; carbon dioxide>carbon; carbon dioxide>carbon monoxide; carbon dioxide>climate change; carbon dioxide>coffee; carbon dioxide>coral; carbon dioxide>energy; carbon dioxide>fuel; carbon dioxide>gas; carbon dioxide>global warming; carbon dioxide>grape; carbon dioxide>iron; carbon dioxide>life; carbon dioxide>light; carbon dioxide>oxygen; carbon dioxide>plant; carbon dioxide>pressure; carbon dioxide>protein; carbon dioxide>soft drink; carbon dioxide>sugar; carbon dioxide>water; carbon dioxide>vein; carbon dioxide>whisky; carbon dioxide>wine; carbon dioxide>volcano; carbon dioxide>volume; carbon dioxide>wood; carbon footprint>carbon; carbon footprint>carbon dioxide; carbon footprint>coal; carbon footprint>food; carbon footprint>global warming; carbon footprint>oil; carbon monoxide>carbon; carbon monoxide>carbon dioxide; carbon monoxide>chemist; carbon monoxide>coal; carbon monoxide>headache; carbon monoxide>heart; carbon monoxide>iron; carbon monoxide>oxygen; carbon monoxide>ozone; carbon monoxide>pressure; carbon monoxide>steam; carbon monoxide>volcano; carbon>acid; carbon>alcohol; carbon>antibiotic; carbon>art; carbon>atmosphere; carbon>atom; carbon>brush; carbon>carbon dioxide; carbon>carbon footprint; carbon>carbon monoxide; carbon>civilization; carbon>coal; carbon>commodity; carbon>cotton; carbon>crystal; carbon>density; carbon>diamond; carbon>dna; carbon>drawing; carbon>earth; carbon>electricity; carbon>electronics; carbon>fat; carbon>fuel; carbon>glass; carbon>gold; carbon>gram; carbon>human; carbon>ink; carbon>iron; carbon>kitchen; carbon>lead; carbon>leather; carbon>linen; carbon>metal; carbon>oxygen; carbon>pencil; carbon>planet; carbon>plastic; carbon>protein; carbon>pyramid; carbon>rubber; carbon>second; carbon>silk; carbon>sphere; carbon>star; carbon>sugar; carbon>sun; carbon>window; carbon>volcano; carbon>wool; carbon>writing; carbon>x-ray; card>debit card; card>postcard; care>health care; career>education; career>person; career>profession; carelessness>negligence; cargo>commerce; cargo>customs; cargo>delivery; cargo>grain; cargo>machinery; cargo>manufacturing; cargo>meat; cargo>oil; cargo>port; cargo>produce; cargo>salt; cargo>scrap; cargo>shoe; cargo>supermarket; cargo>terrorism; cargo>toy; cargo>transport; cargo>truck; cargo>van; carnival>coconut; carnival>fair; carnival>mask; carnival>parade; carnival>plan; carnival>ski; carnival>witch; carpet>cloth; carpet>commerce; carpet>cotton; carpet>linen; carpet>mat; carpet>mug; carpet>nature; carpet>sewing; carpet>silk; carpet>turkey; carpet>wool; carriage>bride; carriage>buss; carriage>carrom; carriage>horse; carriage>pony; carriage>sightseeing; carriage>tourism; carriage>turkey; carrot>fat; carrot>fruit; carrot>jam; carrot>onion; carrot>soup; carrot>sugar; carrot>supermarket; cartoon>animation; cartoon>drawing; cartoon>illustration; cartoon>irony; cartoon>painting; cartoon>paper; case>bookcase; case>box; case>suitcase; cash>bank; cash>coin; cash>currency; cash>finance; cash>inflation; cash>money; casserole>beer; casserole>flour; casserole>oven; casserole>pasta; casserole>potato; casserole>rice; casserole>wine; cast>archaeology; cast>fantasy; castle>archaeology; castle>headquarters; castle>palace; casualty>disaster; cat>animal; cat>aspirin; cat>bird; cat>camel; cat>dream; cat>fur; cat>giraffe; cat>grass; cat>kitten; cat>leopard; cat>mammal; cat>paw; cat>pet; cat>rat; cat>scissors; cat>tongue; catastrophe>disaster; catering>business; catering>concert; catering>drink; catering>wedding; catering>vegetarian; catering>vehicle; cathedral>chapel; cathedral>earth; cathedral>heaven; cathedral>sculpture; cattle>agriculture; cattle>animal; cattle>beef; cattle>blood; cattle>bull; cattle>butter; cattle>bull; cattle>calves; cattle>camel; cattle>cheese; cattle>clothing; cattle>contract; cattle>elephant; cattle>fence; cattle>fuel; cattle>global warming; cattle>heart; cattle>herb; cattle>horse; cattle>kidney; cattle>leather; cattle>liver; cattle>mammal; cattle>meat; cattle>milk; cattle>plural; cattle>shoe; cattle>species; cattle>sport; cattle>stomach; cattle>tick; cattle>transport; cattle>turkey; cattle>vegetation; cattle>whale; cattle>yogurt; cave>bat; cd player>cd; cd player>computer; cd player>consumer; cd player>dj; cd player>sound; cd-rom>aluminium; cd-rom>dvd; cd-rom>laser; cd-rom>minute; cd-rom>plastic; cd-rom>second; cd-rom>software; cd-rom>video game; ceiling>cathedral; ceiling>concrete; ceiling>sound; celebration>festival; celebration>holiday; celebration>party; celebrity>entertainment; celebrity>fragrance; celebrity>leader; celebrity>medication; celebrity>monster; celebrity>nightclub; celebrity>pottery; celebrity>presenter; celebrity>referee; celebrity>reporter; celebrity>social networking; celebrity>soft drink; celebrity>spy; cell>mobile phone; cellar>basement; cello>disco; cello>guitar; cello>hip-hop; cello>jazz; cello>length; cello>orchestra; cello>piano; cello>plastic; cello>steel; cello>violin; cello>volume; cemetery>angel; cemetery>brick; cemetery>burial; cemetery>concrete; cemetery>crime; cemetery>culture; cemetery>flower; cemetery>funeral; cemetery>grass; cemetery>grave; cemetery>legend; cemetery>legislation; cemetery>map; cemetery>metal; cemetery>monument; cemetery>profession; cemetery>religion; cemetery>skeleton; cemetery>limber; cemetery>tomb; cemetery>toy; cemetery>vase; cent>century; centimetre>equal; centimetre>inch; centimetre>length; centimetre>litre; centimetre>metre; centimetre>millimetre; central heating>air conditioning; central heating>climate; central heating>dishwasher; central heating>grape; central heating>heating; central heating>pump; central heating>washing machine; century>decade; century>millennium; century>year; cereal>agriculture; cereal>fat; cereal>fruit; cereal>protein; cereal>rice; cereal>wheat; cereal>vitamin; ceremony>battle; ceremony>birthday; ceremony>burial; ceremony>dance; ceremony>death; ceremony>funeral; ceremony>gift; ceremony>procession; ceremony>retirement; ceremony>ritual; ceremony>theatre; ceremony>wedding; certainty>belief; certainty>doubt; certainty>instinct; certainty>paradox; certainty>philosophy; certainty>uncertainty; chain>dimension; chain>liberty; chain>toilet; chair>cushion; chair>furniture; chair>leather; chair>oak; chair>privacy; chair>public transport; chair>saddle; chair>seat; chair>throne; chair>wheelchair; chair>wood; champagne>carbon dioxide; champion>championship; champion>competition; champion>victory; championship>boxing; championship>champion; championship>champion; championship>sport; championship>tennis; chance>luck; chance>probability; chancellor>parliament; chancellor>prime minister; chancellor>solicitor; chancellor>title; change>coin; channel>canal; chapel>cathedral; chapel>college; chapel>hospital; chapel>palace; chapel>prayer; chapel>prison; chapel>ship; chapel>worship; characteristic>entity; characteristic>property; charge>debit; charm>charisma; chart>data; chart>diagram; chart>genetics; chart>graphics; chart>map; chart>number; chart>percentage; chart>symbol; chat>cat; chat>conversation; check>cheque; check>china; check>dna; check>ear; check>face; check>individual; check>jaw; check>map; check>mouth; check>species; cheerfulness>happiness; cheese>acid; cheese>agriculture; cheese>butter; cheese>cattle; cheese>cow; cheese>fat; cheese>fortnight; cheese>garlic; cheese>goat; cheese>headache; cheese>herb; cheese>legend; cheese>milk; cheese>nightmare; cheese>pizza; cheese>protein; cheese>rash; cheese>sheep; cheese>spice; cheese>vinegar; cheese>world; chef>butcher; chef>fish; chef>kitchen; chef>mef; chef>meat; chef>profession; chef>saalad; chef>sauce; chef>vegetable; chemist>alcohol; chemist>atom; chemist>chemistry; chemist>fire; chemist>glass; chemist>gold; chemist>iron; chemist>medication; chemist>pharmacist; chemist>physics; chemist>scientist; chemist>structure; chemistry>acid; chemistry>atom; chemistry>biology; chemistry>carbon; chemistry>carbon dioxide; chemistry>concentration; chemistry>concept; chemistry>crystal; chemistry>density; chemistry>diamond; chemistry>drug; chemistry>electricity; chemistry>energy; chemistry>experiment; chemistry>force; chemistry>gas; chemistry>genetics; chemistry>geology; chemistry>heat; chemistry>hypothesis; chemistry>iron; chemistry>laboratory; chemistry>liquid; chemistry>matter; chemistry>observation; chemistry>oxygen; chemistry>particle; chemistry>physics; chemistry>pressure; chemistry>solution; chemistry>structure; chemistry>temperature; chemistry>tin; chemistry>volume; cheque>cash; cheque>credit card; cheque>debit card; cheque>drawer; cheque>payment; cherry>flower; cherry>fruit; cherry>turkey; chery>vitamin; chess>aggression; chess>board game; chess>dice; chess>intelligence; chess>knowledge; chess>mobile phone; chess>perception; chest of drawers>bedroom; chest of drawers>clothing; chest of drawers>furniture; chest of drawers>mirror; chest of drawers>oak; chest of drawers>underwear; chest of drawers>wood; chest>breast; chest>cancer; chest>cough; chest>digestion; chest>heart; chest>infection; chest>kidney; chest>neck; chest>shoulder; chest>stomach; chest>tobacco; chest>x-ray; chewing gum>bacteria; chewing gum>bark; chewing gum>culture; chewing gum>grass; chewing gum>plant; chewing gum>rubber; chewing gum>stomach; chewing gum>tree; chicken>agriculture; chicken>animal; chicken>beard; chicken>bird; chicken>breed; chicken>death; chicken>devil; chicken>extinction; chicken>fast food; chicken>fat; chicken>feather; chicken>god; chicken>leg; chicken>lion; chicken>man; chicken>meat; chicken>pet; chicken>pig; chicken>pottery; chicken>recipe; chicken>silk; chicken>stomach; chicken>theatre; chicken>tick; chicken>wedding; chicken>vegetarian; chicken>woman; child>abortion; child>birth; child>childhood; child>daughter; child>human; child>infancy; child>law; child>son; childhood>birth; childhood>cat; childhood>child; childhood>culture; childhood>historian; childhood>human rights; childhood>infant; childhood>innocence; childhood>jail; childhood>park; childhood>playground; childhood>television; childhood>toddler; childhood>violin; child>temperature; chimney>castle; chimney>central heating; chimney>concrete; chimney>density; chimney>earthquake; chimney>fireplace; chimney>fuel; chimney>lead; chimney>mobile phone; chimney>pressure; chimney>smoke; chimney>tv; chin>elephant; chin>face; chin>speech; chip>paint; chocolate>cherry; chocolate>cholesterol; chocolate>food; chocolate>obesity; chocolate>sweet; choice>abortion; choice>availability; choice>convenience; choice>economy; choice>emotion; choice>feeling; choice>image; choice>nutrition; choice>preference; choice>tradition; choir>harmony; choir>opera; choir>orchestra; choir>piano; choir>trumpet; cholesterol>beef; cholesterol>cancer; cholesterol>cholesterol>cholesterol>cholesterol>chemical; cholesterol>fish; cholesterol>litre; cholesterol>liver; cholesterol>medication; cholesterol>peanut; cholesterol>pork; cholesterol>protein; cholesterol>stroke; cholesterol>suffix; cholesterol>thermometer; cholesterol>water; church>institution; church>religion; cigarette>blend; cigarette>brand; cigarette>cancer; cigarette>debit card; cigarette>prince; cigarette>smoking; cigarette>stroke; cigarette>tobacco; cigarette>turkey; circle>astronomy; circle>curve; circle>equation; circle>gear; circle>science; circle>shape; circle>sphere; circle>triangle; circle>wheel; circulation>circus; circus>bear; circus>bird; circus>clown; circus>elephant; circus>gymnastics; circus>horse; circus>television; city>agriculture; city>bank; city>cathedral; city>civilization; city>communication; city>county; city>crime; city>democracy; city>empire; city>employment; city>finance; city>firm; city>history; city>homelessness; city>house; city>industry; city>market; city>mayor; city>pollution; city>rain; city>recreation; city>religion; city>suburb; city>sunlight; city>tourist; city>town; city>trade; city>traffic; city>transportation; city>waste; city>village; civilian>country; civilian>crew; civilian>passenger; civilian>terrorism; civilization>agriculture; civilization>architecture; civilization>bureaucracy; civilization>city; civilization>climate change; civilization>complexity; civilization>culture; civilization>currency; civilization>education; civilization>elite; civilization>globalization; civilization>government; civilization>grain; civilization>hierarchy; civilization>law; civilization>literacy; civilization>market; civilization>materialism; civilization>measurement; civilization>money; civilization>ownership; civilization>priest; civilization>religion; civilization>science; civilization>society; civilization>sustainability; civilization>technology; civilization>trade; civilization>transportation; civilization>tribe; civilization>tribute; civilization>university; civilization>writing; claim>proposition; claim>right; clash>battle; class>classroom; class>lesson; class>adjective; classic>antique; classic>masterpiece; classic>noun; classroom>biology; classroom>book; classroom>chart; classroom>chemistry; classroom>daylight; classroom>desk; classroom>furniture; classroom>gym; classroom>learning; classroom>lecture; classroom>map; classroom>physics; classroom>room; classroom>teacher; classroom>teaching; classroom>tv; classroom>university; class>gerund; clause>grammar; clause>proposition; clause>verb; cleaner>bucket; cleaner>payment; cleaner>towel; cliché>cartoon; cliché>fact; cliché>idiom; cliché>stereotype; click>animation; client>customer; cliff>channel; cliff>climbing; cliff>coast; cliff>earth; cliff>erosion; cliff>geography; cliff>geology; cliff>mountain; cliff>river; cliff>soil; cliff>waterfall; climate change>cloud; climate change>energy; climate change>fish; climate change>global warming; climate change>island; climate change>satellite; climate change>sun; climate change>sunlight; climate change>weather; climate change>vegetation; climate change>volcano; climate>atmosphere; climate>carbon dioxide; climate>climate change; climate>continent; climate>desert; climate>earth; climate>global warming; climate>history; climate>ice; climate>landscape; climate>mammal; climate>ocean; climate>planet; climate>storm; climate>sun; climate>temperature; climate>thermometer; climate>thunderstorm; climate>weather; climate>wind; climate>world; clinic>abortion; clinic>hospital; clinic>surgery; clinic>x-ray; clock>alarm clock; clock>atom; clock>blindness; clock>central heating; clock>counter; clock>day; clock>earthquake; clock>electronics; clock>energy; clock>feedback; clock>friction; clock>gear; clock>hour; clock>invention; clock>minute; clock>mobile phone; clock>mp3 player; clock>sand; clock>second; clock>time; clock>watch; clock>year; clothes>clothing;

clothing>bandage; clothing>button; clothing>cap; clothing>carpet; clothing>climate; clothing>culture; clothing>diving; clothing>fashion; clothing>film; clothing>fur; clothing>gender; clothing>globalization; clothing>glove; clothing>gymnastics; clothing>handbag; clothing>hat; clothing>hygiene; clothing>infant; clothing>insect; clothing>ironing; clothing>jeans; clothing>laundry; clothing>leather; clothing>painting; clothing>paper; clothing>peer pressure; clothing>photo; clothing>professional; clothing>religion; clothing>shirt; clothing>shorts; clothing>skiing; clothing>skirt; clothing>surfing; clothing>sweater; clothing>television; clothing>tracksuit; clothing>trousers; clothing>t-shirt; clothing>washing machine; clothing>weather; clothing>whale; clothing>wind; clothing>winter; clothing>yellow; cloud>atmosphere; cloud>bacteria; cloud>chemical; cloud>climate; cloud>crystal; cloud>energy; cloud>evolution; cloud>feedback; cloud>fog; cloud>global warming; cloud>habitat; cloud>hall; cloud>light; cloud>lightning; cloud>liquid; cloud>mist; cloud>mountain; cloud>planet; cloud>rain; cloud>salt; cloud>snow; cloud>stable; cloud>summer; cloud>sun; cloud>symbol; cloud>temperature; cloud>thunderstorm; cloud>tornado; cloud>water; cloud>weather; cloud>winter; clown>comedy; clown>donkey; clown>elephant; clown>horse; clown>orchestra; clown>performer; clown>psychology; clown>priest; clown>zebra; club>basketball; club>boxing; club>exercise; club>golf; club>gym; club>secondary school; clue>evidence; clutch>air conditioning; clutch>cable; clutch>friction; clutch>machine; clutch>pressure; coach>coaching; coaching>career; coaching>consultant; coaching>consumer; coaching>discussion; coaching>fashion; coaching>inquiry; coaching>leadership; coaching>marriage; coaching>psychology; coaching>recreation; coal>carbon; coal>carbon dioxide; coal>carbon monoxide; coal>climate change; coal>funeral; coal>global warming; coal>iron; coal>oxygen; coal>pressure; coal>steam; coal>steel; coal>world; coast>animal; coast>bay; coast>beach; coast>canal; coast>circle; coast>cliff; coast>climate change; coast>coral; coast>dolphin; coast>erosion; coast>fishing; coast>flood; coast>house; coast>infrastructure; coast>insect; coast>island; coast>lake; coast>navy; coast>ocean; coast>plant; coast>pond; coast>port; coast>river; coast>salt; coast>sea; coast>shore; coast>solution; coast>surfing; coast>tide; coast>transport; coast>wave; coast>weather; coastline>coast; coast>paint; coconut>skin; coconut>butterfly; coconut>carpet; coconut>flower; coconut>fruit; coconut>ghost; coconut>plant; coconut>seed; coconut>soap; coconut>theatre; coconut>witch; cod>beard; cod>crab; cod>export; cod>food; cod>heart; cod>species; cod>worm; code>biology; code>bit; code>chess; code>communication; code>computer; code>data; code>dna; code>gesture; code>information; code>journalism; code>language; code>length; code>marketing; code>music; code>phrase; code>sign; code>word; code>climate change; coffee>corn; coffee>headache; coffee>illness; coffee>live; coffee>milk; coffee>rice; coffee>shade; coffee>sugar; coffee>tea; coffee>turkey; coffee>wine; coffee>worm; coin>copper; coin>currency; coin>deer; coin>dice; coin>euro; coin>exchange rate; coin>gold; coin>inflation; coin>money; coin>penny; coin>silver; coincidence>earth; coincidence>genius; coincidence>paradox; coincidence>probability; coincidence>science; coincidence>statistics; coincidence>sun; cola>lemon; cola>pharmacist; cola>soft drink; cold>air; cold>atmosphere; cold>earth; cold>energy; cold>freezer; cold>frost; cold>hall; cold>heat; cold>ice; cold>ice cream; cold>iceberg; cold>mammal; cold>physics; cold>radiation; cold>snow; cold>sun; cold>temperature; cold>winter; coldness>cold; collaboration>ballot; collaboration>blog; collaboration>business; collaboration>community; collaboration>computer; collaboration>cooperation; collaboration>industry; collaboration>leadership; collaboration>medicine; collaboration>organization; collaboration>partnership; collaboration>piano; collaboration>socialism; collaboration>trade; collaboration>violin; collar>arrest; collar>slave; college>law; college>secondary school; college>university; college>vocation; collocation>cliché; collocation>grammar; collocation>idiom; collocation>phrasal verb; column>arch; column>architecture; column>relief; comb>hair; comb>metaphor; comb>perfume; comb>police; comb>tool; combat>assault; combat>kick; combat>knife; combat>law; combat>sword; combat>synonym; combat>war; combat>weapon; combat>violence; combination>probability; comeback>politics; comedian>comedy; comedian>humour; comedian>joke; comedian>laughter; comedy>clown; comedy>evil; comedy>film; comedy>humour; comedy>irony; comedy>laughter; comedy>literature; comedy>television; comedy>theatre; comedy>tragedy; comedy>word; comfort>health care; comfort>memory; comfort>pain; comfort>pleasure; comfort>suffering; comma>apostrophe; comma>clause; comma>full stop; comma>grammar; comma>punctuation; comma>semicolon; commander>army; commander>inspector; commerce>advertising; commerce>agriculture; commerce>business; commerce>capitalism; commerce>cargo; commerce>coin; commerce>communication; commerce>corporation; commerce>currency; commerce>economics; commerce>export; commerce>fair; commerce>finance; commerce>globalization; commerce>gold; commerce>harvest; commerce>import; commerce>industry; commerce>manufacturing; commerce>market; commerce>marketing; commerce>money; commerce>trade; commercial>advertising; commercial>commerce; commercial>trade; commitment>brand; commitment>contract; commitment>promise; committee>research; committee>secretary; commodity>agriculture; commodity>brand; commodity>coal; commodity>coffee; commodity>copper; commodity>economics; commodity>gold; commodity>inflation; commodity>market; commodity>mining; commodity>price; commodity>rice; commodity>salt; commodity>silver; commodity>sugar; commodity>tea; commodity>trade; commodity>wheat; common sense>artificial intelligence; common sense>idea; common sense>logic; common sense>philosopher; common sense>relevance; common sense>wisdom; communication>architecture; communication>bacteria; communication>clothing; communication>collaboration; communication>conversation; communication>cooperation; communication>dialect; communication>diary; communication>feedback; communication>gesture; communication>grammar; communication>human; communication>information; communication>jargon; communication>message; communication>name; communication>noise; communication>plant; communication>rhythm; communication>soil; communication>sound; communication>symbol; communication>system; communication>writing; community>archaeology; community>belief; community>biology; community>city; community>communication; community>competition; community>construction; community>content; community>culture; community>disability; community>ecology; community>economics; community>family; community>festival; community>home; community>human; community>individual; community>intensity; community>intention; community>life; community>nation; community>neighbourhood; community>office; community>politics; community>preference; community>risk; community>role; community>selfishness; community>suburb; community>town; community>village; companion>friendship; company>bank; company>corporation; company>desire; company>duty; company>firm; company>goal; company>law; company>partnership; company>person; company>policy; company>resource; company>skill; comparative>advertising; comparative>suburb; comparative>superlative; competence>skill; competition>adaptation; competition>award; competition>baseball; competition>basketball; competition>biology; competition>brand; competition>budget; competition>celebrity; competition>championship; competition>civilization; competition>consumer; competition>cooperation; competition>cost; competition>country; competition>cricket; competition>culture; competition>democracy; competition>diving; competition>ecology; competition>election; competition>evolution; competition>extinction; competition>fishing; competition>food; competition>football; competition>funding; competition>government; competition>gymnastics; competition>income; competition>investor; competition>law; competition>monopoly; competition>nationality; competition>nature; competition>philosopher; competition>politics; competition>pride; competition>psychologist; competition>psychology; competition>recreation; competition>self-esteem; competition>sunlight; competition>tax; competition>tennis; competition>war; competition>water; competition>wealth; competitor>competition; complaint>birthday; complaint>definition; complaint>lawyer; complex>building; complex>complexity; complex>biology; complex>dna; complex>fluid; complex>racism; complex>skin; complex>therapy; complexity>biology; complexity>dimension; complexity>economics; complexity>feedback; complexity>observation; complexity>probability; complexity>property; complexity>science; complexity>simplicity; complexity>simulation; complexity>stock market; complexity>system; complexity>technology; component>ingredient; component>system; composer>arrangement; composer>jazz; composer>music; composer>musician; composer>performance; composer>performer; composer>song; compromise>acceptance; compromise>argument; compromise>communication; compromise>constitution; compromise>demand; computer>artificial intelligence; computer>bit; computer>bunch; computer>calculator; computer>commodity; computer>electronics; computer>icon; computer>laptop; computer>microphone; computer>programmer; computer>spreadsheet; computer>washing machine; computer>webcam; computer>video game; computer>wire; concentration>chemistry; concentration>solution; concept>idea; concept>learning; concept>logic; concept>man; concept>memory; concept>philosophy; concept>psychology; concept>skill; conception>concept; concern>worry; concert>audience; concert>choir; concert>dancing; concert>house; concert>jazz; concert>music; concert>musician; concert>nightclub; concert>orchestra; concert>performance; concert>rehearsal; concert>singer; concert>stadium; conclusion>result; concrete>arch; concrete>boat; concrete>carbon dioxide; concrete>chemistry; concrete>construction; concrete>fence; concrete>parking; concrete>sand; concrete>sugar; concrete>water; conference>meeting; confession>ritual; confession>sin; confidence>faith; confidence>police; confidence>security; confidence>self-confidence; confidence>shyness; confidence>synonym; confirmation>faith; confirmation>prayer; confirmation>priest; confirmation>saint; conscience>abortion; conscience>advertising; conscience>aggression; conscience>animal; conscience>artificial intelligence; conscience>authority; conscience>bird; conscience>brain; conscience>carbon footprint; conscience>chess; conscience>climate change; conscience>consciousness; conscience>consumer; conscience>contempt; conscience>culture; conscience>democracy; conscience>dignity; conscience>earth; conscience>ecology; conscience>evil; conscience>famine; conscience>fear; conscience>generosity; conscience>genetics; conscience>god; conscience>human rights; conscience>integrity; conscience>intellect; conscience>intelligence; conscience>justice; conscience>legislation; conscience>materialism; conscience>matter; conscience>mind; conscience>murder; conscience>parliament; conscience>philosophy; conscience>physics; conscience>politics; conscience>pride; conscience>propaganda; conscience>psychology; conscience>racism; conscience>reason; conscience>religion; conscience>remorse; conscience>self-awareness; conscience>shame; conscience>sin; conscience>society; conscience>sustainability; conscience>torture; conscience>truth; conscience>war; conscience>violence; consciousness>adaptation; consciousness>artificial intelligence; consciousness>awareness; consciousness>computer; consciousness>science; consciousness>dream; consciousness>experience; consciousness>explanation; consciousness>feeling; consciousness>information; consciousness>knowledge; consciousness>language; consciousness>medicine; consciousness>memory; consciousness>mind; consciousness>perception; consciousness>philosophy; consciousness>psychology; consciousness>robot; consciousness>self; consciousness>self-awareness; consciousness>sleep; consciousness>stroke; consciousness>validity; consent>crime; consent>excuse; consent>rape; consent>signature; consequence>punishment; conservation>sustainability; consideration>contract; consideration>legislation; consonant>alphabet; consonant>syllable; consonant>symbol; consonant>vowel; constitution>democracy; constitution>human rights; constitution>institution; constitution>liberty; constitution>parliament; constitution>precedent; constitution>president; constitution>prime minister; constitution>referendum; constitution>revolution; constitution>treaty; construction>accountant; construction>architect; construction>architecture; construction>budget; construction>building; construction>career; construction>consultant; construction>contract; construction>craft; construction>drawing; construction>electrician; construction>engineer; construction>fraud; construction>infrastructure; construction>planning; construction>plumber; construction>profession; construction>project; construction>supervisor; construction>vocation; consultant>engineering; consultant>finance; consultant>law; consultant>management; consultants>marketing; consultant>professional; consultant>surgery; consumer>business; consumer>commodity; consumer>household; consumer>individuality; consumer>marketing; consumption>consumer; container>bottle; container>box; container>jar; container>pottery; contempt>anger; contempt>disgust; contempt>prostitute; contempt>resentment; contents>content; contest>competition; contestant>celebrity; contestant>competition; contestant>professional; contestant>television; continent>earth; continent>geology; continent>island; continent>ocean; continent>volcano; contract>commerce; contract>consideration; contract>country; contract>court; contract>employment; contract>fraud; contract>legislation; contract>negotiation; contract>pact; contract>patient; contract>promise; contract>theatre; contradiction>belief; contradiction>capitalism; contradiction>irony; contradiction>paradox; contradiction>proposition; contradiction>socialism; contradiction>system; contradiction>truth; contribution>donation; contribution>payment; contribution>publication; control>self-control; controversy>argument; controversy>celebrity; controversy>climate change; controversy>crime; controversy>culture; controversy>economics; controversy>education; controversy>finance; controversy>gender; controversy>global warming; controversy>history; controversy>information; controversy>opinion; controversy>organization; controversy>philosophy; controversy>politics; controversy>religion; controversy>science; controversy>science fiction; controversy>sex; controversy>society; convenience>consumer; convenience>electricity; convenience>energy; convenience>frustration; convenience>money; convenience>petrol; convenience>technology; convenience>time; convention>treaty; conversation>communication; conversation>criticism; conversation>dialogue; conversation>gossip; conversation>humour; conversion>exchange rate; conviction>appeal; conviction>crime; conviction>law; conviction>punishment; conviction>verdict; cook>cooking; cookie>biscuit; cookie>bun; cookie>butter; cookie>cake; cookie>carbon dioxide; cookie>chocolate; cookie>fat; cookie>fruit; cookie>jam; cookie>milk; cookie>pastry; cookie>sandwich; cookie>spice; cookie>sugar; cooking>bacon; cooking>bakery; cooking>barbecue; cooking>berry; cooking>broccoli; cooking>carbon; cooking>cereal; cooking>corn; cooking>food; cooking>frying pan; cooking>meal; cooking>muscle; cooking>nutrition; cooking>olive; cooking>pottery; cooking>protein; cooking>recipe; cooking>sauce; cooking>seed; cooking>spice; cooking>spinach; cooking>wine; cooperation>collaboration; cooperation>emotion; cooperation>language; cooperation>teamwork; copper>aluminium; copper>brass; copper>bronze; copper>carbon monoxide; copper>dna; copper>door; copper>electronics; copper>glass; copper>gold; copper>mining; copper>silver; copper>telecommunications; copper>tin; copper>toilet; coral>animal; coral>canal; coral>carbon dioxide; coral>fish; coral>geology; coral>ocean; coral>pollution; coral>species; coral>tube; core>seed; corporation>business; corporation>company; corporation>contract; corporation>crime; corporation>employment; corporation>fraud; corporation>human rights; corporation>partnership; corporation>spice; correction>punishment; corridor>hall; corruption>blackmail; corruption>bribe; corruption>bribe; corruption>budget; corruption>discretion; corruption>fraud; corruption>liability; corruption>organization; corruption>philosophy; corruption>theft; cost>advertising; cost>business; cost>economics; cost>expense; cost>manufacturing; cost>money; cost>paradigm; cost>personal; cost>price; cost>research; cost>retail; cost>resear>beard; costume>clothing; costume>exile; costume>performance; costume>picture; costume>poem; costume>statue; costume>theatre; cottage>acre; cottage>fishing; cottage>mining; cottage>sailing; cotton>bacteria;

cotton>denim; cotton>export; cotton>frost; cotton>import; cotton>jeans; cotton>protein; cotton>soil; cotton>subsidy; cotton>tent; cotton>t-shirt; cotton>underwear; cotton>water;  
cotton>wool; cough>bacteria; cough>insomnia; cough>lung; cough>smoking; cough>virus; council>city; council>committee; council>county; council>government; council>town;  
count>county; count>language; count>pair; count>palace; counter>electronics; counter>ratio; country>count; country>indefinite article; country>nation; country>synonym;  
county>burial; county>city; county>count; county>country; county>hospital; county>magistrate; county>province; county>region; county>tax; county>town; county>village;  
courage>fear; courage>hero; courage>lion; courage>love; courage>pain; courage>psychology; courage>religion; courage>risk; courage>scandal; courage>shame;  
courage>uncertainty; courage>virtue; course>main course; court>appeal; court>authority; court>constitution; court>government; court>institution; court>judge; court>law;  
court>lawyer; court>trial; court>conversation; court>elegance; court>intellectual; court>kindness; court>politeness; cousin>family; cousin>generation;  
cousin>grandparent; cousin>parent; cousin>sibling; cow>cattle; coverage>insurance; coverage>news; crab>animal; crab>bacteria; crab>predator; crab>shore; crab>species;  
crab>tail; crab>tide; crab>worm; crackdown>cartoon; crackdown>police; crackdown>video game; craft>agriculture; craft>customer; craft>education; craft>fair; craft>glass;  
craft>industry; craft>material; craft>metal; craft>paper; craft>profession; craft>professional; craft>relief; craft>science; craft>skill; craft>trade; craft>tradition; craft>vocation;  
craft>wood; craft>workshop; crash>linen; crash>sleep; cream>air; cream>bacteria; cream>butter; cream>cattle; cream>cheese; cream>coffee; cream>honey; cream>ice cream;  
cream>milk; cream>plant; cream>sauce; cream>soup; cream>wine; creation>art; creation>invention; creativity>analogy; creativity>architecture; creativity>art; creativity>artificial  
intelligence; creativity>collaboration; creativity>design; creativity>economics; creativity>economist; creativity>education; creativity>engineering; creativity>evolution;  
creativity>existence; creativity>fair; creativity>genius; creativity>greatness; creativity>imagination; creativity>innovation; creativity>insight; creativity>intelligence; creativity>invention;  
creativity>language; creativity>literature; creativity>metaphor; creativity>music; creativity>philosophy; creativity>psychology; creativity>resource; creativity>revelation;  
creativity>science; creativity>supervisor; creativity>technology; creativity>theory; creativity>threat; creativity>wealth; creature>life; credibility>integrity; credibility>witness; credit  
card>cash; credit card>cheque; credit card>college; credit card>consumer; credit card>debit card; credit card>debt; credit card>electronics; credit card>expense; credit card>forgery;  
credit card>fuel; credit card>interest; credit card>metal; credit card>payment; credit card>receipt; credit card>signature; credit card>tax; credit card>tuition; credit>credibility;  
crew>airline; crew>hierarchy; crew>sport; crew>team; cricket>baseball; cricket>hockey; cricket>lawn; crime>abortion; crime>alcohol; crime>arrest; crime>assault; crime>civilization;  
crime>commerce; crime>consensus; crime>country; crime>creativity; crime>crisis; crime>culture; crime>definition; crime>economics; crime>employer; crime>employment;  
crime>family; crime>fear; crime>gambling; crime>government; crime>imprisonment; crime>justice; crime>king; crime>law; crime>liberty; crime>logic; crime>murder; crime>paradox;  
crime>payment; crime>police; crime>politics; crime>population; crime>psychology; crime>punishment; crime>rape; crime>reason; crime>religion; crime>revenge; crime>robbery;  
crime>sin; crime>slavery; crime>society; crime>statistics; crime>theft; crime>treaty; crime>trial; crime>war; criminal>crime; crisis>affair; crisis>combat; crisis>disaster;  
crisis>earthquake; crisis>hazard; crisis>health; crisis>homelessness; crisis>probability; crisis>recession; crisis>revolution; crisis>security; crisis>self-esteem; crisis>species;  
crisis>threat; crisis>war; critic>analysis; critic>complaint; critic>review; criticism>ambiguity; criticism>authority; criticism>complaint; criticism>control; criticism>criminal;  
criticism>critic; criticism>denial; criticism>hypocrisy; criticism>noun; criticism>prejudice; criticism>protest; criticism>self-esteem; criticism>terrorist; criticism>verb;  
crocodile>aggression; crocodile>bird; crocodile>bite; crocodile>carbon dioxide; crocodile>cold; crocodile>deer; crocodile>dinosaur; crocodile>dna; crocodile>ecology;  
crocodile>evolution; crocodile>extinction; crocodile>fish; crocodile>foot; crocodile>handbag; crocodile>heart; crocodile>helicopter; crocodile>hierarchy; crocodile>lake;  
crocodile>mammal; crocodile>measurement; crocodile>muscle; crocodile>nest; crocodile>ostrich; crocodile>predator; crocodile>reproduction; crocodile>reptile; crocodile>river;  
crocodile>shark; crocodile>skull; crocodile>species; crocodile>tongue; crop>agriculture; crop>animal; crop>bacteria; crop>clothing; crop>cotton; crop>farming; crop>food;  
crop>harvest; crop>human; crop>milk; crop>mushroom; crop>pet; crop>plant; crop>potato; crop>rice; crop>species; crop>wheat; crop>virus; crop>yogurt; cross>addition;  
cross>anchor; cross>era; cross>firefighter; cross>life; cross>world; crowd>bird; crowd>shopping; cruelty>divorce; cruelty>law; cruelty>pleasure; cruelty>punishment;  
cruelty>suffering; cruelty>torture; cruelty>violence; crystal>atom; crystal>carbon; crystal>diamond; crystal>glass; crystal>ice; crystal>liquid; crystal>metal; crystal>salt; crystal>snow;  
crystal>temperature; cucumber>agriculture; cucumber>bean; cucumber>plant; cucumber>spice; cucumber>turkey; cucumber>vegetable; cucumber>vinegar; cultivation>spirit;  
culture>agriculture; culture>archaeology; culture>architecture; culture>art; culture>evolution; culture>capitalism; culture>child; culture>civilization; culture>commerce; culture>communication;  
culture>cow; culture>dialect; culture>education; culture>elite; culture>art; culture>experience; culture>fashion; culture>festival; culture>film; culture>gender;  
culture>globalization; culture>history; culture>holiday; culture>human; culture>language; culture>literature; culture>mother; culture>music; culture>myth; culture>nationality;  
culture>perfection; culture>philosophy; culture>photography; culture>psychology; culture>religion; culture>ritual; culture>society; culture>statistics; culture>symbol;  
culture>technology; culture>tool; culture>tradition; cup>trophy; cupboard>central heating; cupboard>door; cupboard>dust; cupboard>food; cupboard>linen; cupboard>towel;  
cupboard>wood; cure>cancer; cure>disease; cure>medication; cure>surgery; cure>symptom; cure>therapy; curiosity>animal; curiosity>attention; curiosity>cat; curiosity>death;  
curiosity>emotion; curiosity>exploration; curiosity>happiness; curiosity>human; curiosity>infancy; curiosity>instinct; curiosity>learning; curiosity>memory; curiosity>motivation;  
curiosity>violence; currency>bank; currency>banking; currency>cash; currency>cheque; currency>coin; currency>copper; currency>debt; currency>dollar; currency>euro;  
currency>exchange rate; currency>inflation; currency>loan; currency>money; currency>monopoly; currency>receipt; currency>stock; currency>treaty; curriculum>adult;  
curriculum>child; curriculum>college; curriculum>definition; curriculum>education; curriculum>idea; curriculum>knowledge; curriculum>lesson; curriculum>reality; curriculum>school;  
curriculum>society; curriculum>syllabus; curriculum>teaching; curriculum>university; curry>apple; curry>banana; curry>beef; curry>bread; curry>butter; curry>carrot; curry>coconut;  
curry>cream; curry>dinner; curry>garlic; curry>herb; curry>honey; curry>lunch; curry>onion; curry>pork; curry>potato; curry>rice; curry>spice; curry>tuna; curry>vegetable;  
curry>vegetarian; curry>wheat; curry>wine; curry>yogurt; curtain>button; curtain>cloth; curtain>department store; curtain>door; curtain>fabric; curtain>knot; curtain>light;  
curtain>night; curtain>retail; curtain>rope; curtain>rubber; curtain>sleep; curtain>theatre; curtain>water; curve>astronomy; cushion>astronomy; cushion>carpet; cushion>chair;  
cushion>fashion; cushion>feather; cushion>furniture; cushion>grass; cushion>leather; cushion>palace; cushion>paper; cushion>pillow; cushion>soil; cushion>wool;  
custom>customs; custom>tradition; customer>consumer; customer>employee; customer>marketing; customer>seller; customs>authority; customs>export; customs>hazard;  
customs>port; customs>tax; cut>wound; cutlery>camping; cutlery>fast food; cutlery>food; cutlery>fork; cutlery>knife; cutlery>plastic; cutlery>razor; cutlery>spoons; cutlery>steel;  
cutlery>sword; cutlery>tool; cv>syllable; cycle>bicycle; cycling>bicycle; cycling>carbon dioxide; cycling>city; cycling>mail; cycling>obesity; cycling>recreation; cycling>sport;  
cycling>transport; cyclist>cycling; dad>father; damage>injury; dance>animal; dance>audience; dance>ballet; dance>ceremony; dance>civilization; dance>culture; dance>disco;  
dance>entertainment; dance>exercise; dance>gesture; dance>gymnastics; dance>hip-hop; dance>history; dance>individuality; dance>knowledge; dance>music; dance>narrative;  
dance>performance; dance>professional; dance>rainforest; dance>rhythm; dance>ritual; dance>scholar; dance>society; dance>symbol; dance>vocabulary; dancer>dance;  
dancing>dance; danger>risk; darkness>black; darkness>energy; darkness>shadow; dash>dialogue; dash>dictionary; dash>full stop; dash>hyphen; dash>prefix; dash>punctuation;  
data>alphabet; data>computer; data>database; data>engineering; data>geography; data>image; data>information; data>knowledge; data>measurement; data>number; data>sign;  
data>statistics; database>acid; database>availability; database>data; database>economy; database>email; database>knowledge; database>library; database>market;  
database>raid; database>security; database>spreadsheet; daughter>female; daughter>girl; daughter>offspring; daughter>parent; daughter>son; daughter>woman; dawn>horizon;  
dawn>morning; dawn>noon; dawn>pie; dawn>sky; dawn>sun; dawn>sunrise; dawn>sunset; day>astronomy; day>atom; day>calendar; day>daylight; day>deer; day>evening;  
day>holiday; day>horizon; day>hour; day>midnight; day>morning; day>night; day>noon; day>public transport; day>rabbit; day>season; day>second; day>star; day>sun;  
day>sunlight; day>sunrise; day>sunset; day>tide; day>time; day>water; day>week; day>year; daylight>earth; daylight>moonlight; daylight>noon; daylight>pain;  
daylight>sun; daylight>sunlight; daylight>sunrise; daylight>sunset; daylight>>window; deal>contract; death>accident; death>adaptation; death>animal; death>breath; death>burial;  
death>cancer; death>coal; death>consciousness; death>disease; death>evolution; death>examination; death>exercise; death>extinction; death>gene; death>heart;  
death>human; death>inheritance; death>injury; death>life; death>longevity; death>medicine; death>murder; death>nerve; death>obesity; death>oxygen; death>philosophy;  
death>predator; death>scenario; death>science; death>science fiction; death>skeleton; death>stroke; death>suicide; death>time; death>tobacco; debate>argument;  
debate>audience; debate>controversy; debate>conversation; debate>election; debate>entertainment; debate>judge; debate>law; debate>majority; debate>parliament;  
debate>president; debate>prime minister; debate>proposition; debate>team; debate>vote; debit card>bank account; debit card>cash; debit card>cheque; debit card>credit card;  
debit card>euro; debit card>logo; debit card>plastic; debit card>retailer; debit card>signature; debit card>travel agent; debts>asset; debts>company; debts>corporation;  
debts>credit card; debts>currency; debts>economist; debts>finance; debts>government; debts>inflation; debts>interest; debts>investment; debts>loan; debts>metaphor; debts>money;  
debts>payment; debts>property; debts>risk; debts>saving; debts>stock; debts>time; debts>year; decade>century; decade>millennium; decade>year; december>day; december>length;  
december>month; december>year; deception>anger; deception>criticism; deception>embarrassment; deception>experiment; deception>forgery; deception>fraud; deception>link;  
deception>lie; deception>propaganda; deception>psychology; deception>reality; deception>self-esteem; deception>sound; deception>truth; decision>judgment; deck>bus;  
deck>floor; deck>storey; deck>swimming pool; decline>culture; decoration>beauty; dedication>chapel; dedication>icon; dedication>temple; deer>adjective; deer>animal; deer>bull;  
deer>cattle; deer>dna; deer>fruit; deer>leaf; deer>liver; deer>mammal; deer>predator; deer>salmon; deer>stomach; deer>turkey; defeat>failure; defeat>victory;  
deficiency>construction; definition>phrase; definition>prime minister; definition>rectangle; definition>symbol; definition>triangle; definition>word; degree>comparative;  
degree>superlative; delegation>leadership; delegation>management; delight>happiness; demand>glasses; demand>recession; democracy>consensus; democracy>constitution;  
democracy>corporation; democracy>human rights; democracy>intelligence; democracy>law; democracy>organization; democracy>president; democracy>prime minister;  
democracy>referendum; democracy>republic; democracy>revolution; democracy>socialism; democracy>wealth; denial>attention; denial>bias; denial>death; denial>emotion;  
denial>evidence; denial>harassment; denial>lie; denial>rape; denial>reality; denial>research; denial>truth; denim>boot; denim>cotton; denim>documentary; denim>dress;  
denim>handbag; denim>hat; denim>jacket; denim>jeans; denim>shirt; denim>shoe; denim>shorts; denim>air; denim>aluminium; denim>copper; denim>diamond; denim>earth;  
denim>gold; denim>gram; denim>ice; denim>iron; denim>kilogram; denim>lead; denim>liquid; denim>pressure; denim>silver; denim>solution; denim>sun; denim>temperature;  
denim>tin; denim>water; denim>weight; denim>volume; denim>wood; dentist>antibiotic; dentist>mouth; deodorant>alcohol; deodorant>aluminium;  
deodorant>bacteria; deodorant>dna; deodorant>inventor; deodorant>irritation; deodorant>perfume; department store>clock; department store>escalator; department  
store>marketing; department store>redevelopment; department store>retail; department>department store; department>essay; department>government; department>university;  
deprivation>liberty; deprivation>poverty; deprivation>starvation; descendant>ancestor; descendant>hierarchy; description> cliché; description>definition; description>fiction;  
description>imagination; description>narrative; description>relevance; description>sentiment; desert>ant; desert>camel; desert>carbon dioxide; desert>cattle; desert>continent;  
desert>copper; desert>drought; desert>earth; desert>explosive; desert>fly; desert>fog; desert>goat; desert>gold; desert>ice; desert>iron; desert>lake; desert>landscape;  
desert>mammal; desert>rain; desert>region; desert>reptile; desert>salt; desert>science fiction; desert>sheep; desert>slave; desert>snake; desert>snow; desert>spider; desert>sun;  
desert>sunlight; desert>temperature; desert>turkey; design>analysis; design>architect; design>architecture; design>clothing; design>construction; design>creativity;  
design>definition; design>designer; design>document; design>emotion; design>engineering; design>evaluation; design>fashion; design>goal; design>implementation;  
design>management; design>manufacturing; design>pottery; design>presentation; design>requirement; design>research; design>science; design>specification; design>thought;  
designer>architect; designer>architecture; designer>clothing; designer>design; designer>engineering; designer>furniture; designer>painting; designer>profession;  
designer>sculpture; desire>marketing; desk>book; desk>bookmark; desk>computer; desk>document; desk>furniture; desk>office; desk>pen; desk>steel; desk>wood; desk>writing;  
desktop>desk; desperation>panic; dessert>biscuit; dessert>cake; dessert>cookie; dessert>fruit; dessert>flour; dessert>honey; dessert>ice cream; dessert>jam;  
dessert>pasta; dessert>pie; dessert>pudding; dessert>sugar; destination>travel; destiny>art; destiny>luck; destiny>philosophy; destiny>proposition; detail>complexity;  
detective>burglary; detective>civilian; detective>credit card; detective>crime; detective>fiction; detective>fraud; detective>inspector; detective>police; detective>robbery;  
determination>decision; determination>determiner; determination>measurement; determiner>adjective; determiner>grammar; determiner>noun; determiner>phrase;  
determiner>reference; determiner>verb; device>gadget; device>machine; device>tool; devil>angel; devil>beauty; devil>culture; devil>evil; devil>goat; devil>god; devil>hell;  
devil>judge; devil>legend; devil>pig; devil>prosecutor; devil>religion; devil>sheep; devil>sin; devil>wisdom; diagnosis>experience; diagram>architect; diagram>arrow;  
diagram>chart; diagram>engineering; diagram>grammar; diagram>graphics; diagram>illustration; diagram>information; diagram>map; diagram>synonym; dialect>elite;  
dialect>jargon; dialect>language; dialect>slang; dialect>vocabulary; dialogue>conversation; dialogue>god; dialogue>language; dialogue>literature; dialogue>narrative;  
dialogue>philosophy; diamond>carbon; diamond>carbon dioxide; diamond>crystal; diamond>earth; diamond>electronics; diamond>ice; diamond>icon; diamond>laser;  
diamond>oxygen; diamond>toughness; diamond>>window; diamonds>x-ray; diary>biography; diary>blog; diary>fiction; diary>witness; dice>board game; dice>density; dice>gambling;  
dice>horse; dice>museum; dice>plastic; dice>plural; dice>singular; dice>sphere; dictionary>computer; dictionary>concept; dictionary>definition; dictionary>idiom;

dictionary>metaphor; difficulty>problem; digestion>acid; digestion>alcohol; digestion>animal; digestion>bacteria; digestion>beak; digestion>bird; digestion>blood; digestion>cat; digestion>cheese; digestion>cow; digestion>fat; digestion>food; digestion>liver; digestion>mammal; digestion>mouth; digestion>muscle; digestion>nerve; digestion>nutrition; digestion>pig; digestion>protein; digestion>silk; digestion>steel; digestion>stomach; digestion>sugar; digestion>tennis; digestion>tongue; digital camera>camera; digital camera>electronics; digital camera>mobile phone; digital camera>photograph; digital camera>photographer; digital camera>portrait; digital camera>video; dignity>abortion; dignity>angel; dignity>anger; dignity>conscience; dignity>god; dignity>human rights; dignity>integrity; dignity>pride; dignity>privacy; dignity>reason; dignity>self-esteem; dignity>self-respect; dignity>video game; dilemma>idiom; dilemma>logic; dilemma>paradox; dilemma>problem; dining room>castle; dining room>kitchen; dining room>living room; dining room>staircase; dinner>breakfast; dinner>dessert; dinner>food; dinner>lunch; dinner>meal; dinner>noon; dinner>snack; dinner>sunday; dinner>supper; dinosaur>advertising; dinosaur>biology; dinosaur>bird; dinosaur>bone; dinosaur>cheek; dinosaur>chemistry; dinosaur>chicken; dinosaur>computer; dinosaur>crocodylle; dinosaur>extinction; dinosaur>feather; dinosaur>fiction; dinosaur>film; dinosaur>geology; dinosaur>kidney; dinosaur>literature; dinosaur>mammal; dinosaur>nest; dinosaur>physics; dinosaur>protein; dinosaur>reptile; dinosaur>science; dinosaur>skeleton; dinosaur>snake; dinosaur>tooth; dinosaur>wrist; diploma>ambassador; diploma>delegate; diploma>diplomacy; diploma>diplomat; diploma>electronics; diploma>king; diploma>leather; diploma>university; diplomacy>ambassador; diplomacy>climate change; diplomacy>culture; diplomacy>diplomat; diplomacy>economics; diplomacy>human rights; diplomacy>negotiation; diplomacy>politician; diplomacy>propaganda; diplomacy>republic; diplomacy>sailing; diplomacy>strategy; diplomacy>trade; diplomacy>treaty; diplomacy>war; diplomat>ambassador; diplomat>culture; diplomat>diploma; diplomat>diplomacy; diplomat>economics; diplomat>hip; diplomat>law; diplomat>self-esteem; diplomat>university; directions>direction; dirt>clothes; dirt>commerce; dirt>disgust; dirt>dust; dirt>dustbin; dirt>immune system; dirt>pregnancy; dirt>restaurant; dirt>skin; dirt>soil; disability>blindness; disability>disease; disability>employment; disability>extreme sports; disability>pity; disability>safety; disability>sense; disability>software; disability>transportation; disability>wheelchair; disadvantage>extinction; disagreement>consensus; disagreement>controversy; disappointment>blame; disappointment>frustration; disappointment>grief; disappointment>happiness; disappointment>immune system; disappointment>lottory; disappointment>optimism; disappointment>probability; disappointment>risk; disappointment>stock market; disaster>accident; disaster>crisis; disaster>earthquake; disaster>emergency; disaster>explosion; disaster>fire; disaster>flood; disaster>hazard; disaster>risk; disc jockey>jazz; disc jockey>microphone; disc jockey>nightclub; disc jockey>stadium; disc>disc jockey; discipline>motivation; discipline>prison; discipline>punishment; discipline>self-control; discipline>training; discipline>virtue; disco>album; disco>arrangement; disco>baseball; disco>celebrity; disco>cello; disco>disc jockey; disco>dj; disco>flute; disco>hip-hop; disco>jazz; disco>medal; disco>music; disco>necklace; disco>nightclub; disco>orchestra; disco>piano; disco>racism; disco>soundtrack; disco>techno; disco>television; disco>trumpet; disco>violin; discomfort>comfort; discretion>appeal; discretion>judge; discretion>jury; discretion>noun; discretion>police; discretion>prosecutor; discrimination>employer; discrimination>gender; discrimination>institution; discrimination>nationality; discrimination>prejudice; discrimination>racism; discrimination>slavery; discrimination>stereotype; discussion>conversation; disease>addiction; disease>attention; disease>biology; disease>cancer; disease>cure; disease>death; disease>disability; disease>emotion; disease>exercise; disease>illness; disease>infection; disease>injury; disease>medication; disease>metaphor; disease>nutrition; disease>obesity; disease>outbreak; disease>pain; disease>poverty; disease>pregnancy; disease>slavery; disease>stroke; disease>surgery; disease>symptom; disease>vaccination; disguise>celebrity; disguise>costume; disguise>glasses; disguise>mask; disguise>science fiction; disgust>anger; disgust>consciousness; disgust>consent; disgust>contempt; disgust>disease; disgust>emotion; disgust>fear; disgust>god; disgust>milk; disgust>personality; disgust>privacy; disgust>racism; disgust>rat; disgust>sadness; disgust>sex; disgust>shame; dishonesty>consent; dishonesty>court; dishonesty>fraud; dishonesty>jury; dishonesty>robbery; dishonesty>theft; dishwasher>cutlery; dishwasher>perfume; dishwasher>restaurant; dishwasher>salt; dishwasher>temperature; dishwasher>washing machine; disk>disc; dislike>disgust; disorder>disease; disposition>belief; disposition>mind; disposition>truth; dispute>controversy; disrespect>respect; disruption>adoption; dissertation>thesis; distance>formula; distance>length; distance>physics; distance>ruler; distance>statistics; distinction>award; distraction>attention; distraction>prayer; distress>suffering; district>authority; district>county; district>leisure; district>recycling; district>region; district>tax; district>turkey; dive>dive; diver>dive; diving>dance; diving>gymnastics; diving>sport; diving>swimming pool; divorce>addiction; divorce>god; divorce>lawyer; divorce>magistrate; divorce>marriage; divorce>workaholic; divorce>vow; dj>disc jockey; dna>agriculture; dna>animal; dna>atom; dna>bacteria; dna>biology; dna>bone; dna>brain; dna>cancer; dna>carbon; dna>earth; dna>evolution; dna>gene; dna>genetics; dna>hair; dna>life; dna>plant; dna>protein; dna>skin; dna>species; dna>temperature; dna>virus; dna>x-ray; doctor>surgeon; document>author; document>book; document>contract; document>evidence; document>information; document>ink; document>journal; document>laptop; document>material; document>paper; document>privacy; document>radio; document>report; document>sign; document>television; document>thesis; dog>animal; dog>blindness; dog>cat; dog>chocolate; dog>fox; dog>garlic; dog>grape; dog>horse; dog>human; dog>hunting; dog>leopard; dog>mammal; dog>pet; dog>pregnancy; dog>puppy; dog>restaurant; dog>tail; dog>tick; dog>tiger; dog>wolf; doll>archaeology; doll>art; doll>bone; doll>cereal; doll>cloth; doll>clothing; doll>fashion; doll>fur; doll>furniture; doll>leather; doll>plastic; doll>psychologist; doll>rubber; doll>slave; doll>toy; doll>transportation; doll>wood; dollar>currency; dollar>euro; dolphin>culture; dolphin>disease; dolphin>eyesight; dolphin>fish; dolphin>garlic; dolphin>infection; dolphin>navy; dolphin>review; dolphin>shark; dolphin>skeleton; dolphin>taste; dolphin>tuna; dolphin>whale; donation>blood; donation>cash; donation>clothing; donation>consideration; donation>food; donation>gift; donation>toy; donkey>animal; donkey>cartoon; donkey>desert; donkey>mammal; donkey>proverb; donkey>sheep; donkey>straw; donkey>synonym; donkey>zebra; donor>donation; doom>destiny; door>accident; door>air conditioning; door>alarm; door>animal; door>atmosphere; door>ceiling; door>chest; door>climate; door>convenience; door>curtain; door>disguise; door>fire; door>floor; door>garden; door>gate; door>glass; door>horse; door>id card; door>knee; door>ladder; door>light; door>literature; door>metaphor; door>noise; door>people; door>pressure; door>prison; door>privacy; door>remote control; door>ritual; door>rubber; door>safety; door>security; door>symbol; door>toon; door>wardrobe; doorway>door; dose>quantity; dot>full stop; doubt>authority; doubt>belief; doubt>childhood; doubt>deception; doubt>emotion; doubt>fact; doubt>future; doubt>history; doubt>law; doubt>logic; doubt>mind; doubt>paradox; doubt>politics; doubt>probability; doubt>question; doubt>reality; doubt>reason; doubt>religion; doubt>tradition; doubt>uncertainty; download>email; draft>drought; drama>actor; drama>audience; drama>collaboration; drama>dance; drama>dialogue; drama>entertainment; drama>episode; drama>fiction; drama>film; drama>grammar; drama>institution; drama>literature; drama>music; drama>opera; drama>performance; drama>poetry; drama>radio; drama>ritual; drama>soap opera; drama>song; drama>television; drama>theatre; drama>tragedy; drama>wit; draught>draft; drawback>commerce; drawback>export; drawback>law; drawback>sugar; drawback>warehouse; drawer>drawing; drawing>blackboard; drawing>brush; drawing>diagram; drawing>illustration; drawing>ink; drawing>leather; drawing>paper; drawing>pen; drawing>pencil; drawing>ruler; drawing>shade; drawing>silver; dream>anger; dream>anxiety; dream>creativity; dream>devil; dream>earth; dream>evil; dream>fantasy; dream>fear; dream>happiness; dream>heaven; dream>idea; dream>illness; dream>image; dream>mind; dream>nightmare; dream>novelist; dream>perception; dream>prediction; dream>sadness; dream>scientist; dream>sleep; dream>taste; dress>clothing; dress>fashion; dress>girl; dress>skirt; dress>tennis; dress>thigh; dress>trousers; dress>wedding; dress>woman; drink>alcohol; drink>beer; drink>cancer; drink>carrot; drink>chemistry; drink>coffee; drink>cucumber; drink>culture; drink>food; drink>fruit; drink>human; drink>juice; drink>lemonade; drink>liquid; drink>milk; drink>pub; drink>soft drink; drink>soup; drink>spoon; drink>tea; drink>water; drink>wine; drink>yogurt; drive>motivation; drive>road; drop>chest; drop>waist; drought>agriculture; drought>average; drought>climate change; drought>desert; drought>disaster; drought>economy; drought>erosion; drought>famine; drought>habitat; drought>human; drought>hunger; drought>industry; drought>lake; drought>landscape; drought>rainforest; drought>refugee; drought>ship; drought>snake; drought>soil; drought>unrest; drought>war; drought>wind; drug>animal; drug>beer; drug>body; drug>chemical; drug>cigarette; drug>coffee; drug>consciousness; drug>cream; drug>culture; drug>food; drug>government; drug>human; drug>illness; drug>law; drug>matter; drug>medicine; drug>mind; drug>perception; drug>pharmacist; drug>pharmacy; drug>tobacco; drug>wine; drum>sound; duck>animal; duck>baseball; duck>beak; duck>bird; duck>fox; duck>swan; dump>waste; duration>time; dust>carpet; dust>climate change; dust>desert; dust>engineering; dust>fur; dust>hair; dust>laptop; dust>manufacturing; dust>material; dust>paper; dust>repair; dust>road; dust>surface; dust>debt; duty>employment; duty>obligation; duty>sacrifice; duty>soldier; duty>tradition; duvet>blanket; duvet>cotton; duvet>feather; duvet>pillow; duvet>silk; duvet>wool; dvd>cd; dvd>movie; dvd>pencil; eagerness>enthusiasm; eagle>beak; eagle>bird; eagle>extinction; eagle>religion; eagle>snake; eagle>sun; ear>bat; ear>cancer; ear>earring; ear>head; ear>muscle; ear>sense; ear>sound; earnings>commodity; earnings>corporation; earnings>income; earnings>investment; earnings>tax; earnings>bacteria; earring>bone; earring>ear; earring>friction; earring>glass; earring>infection; earring>jewellery; earring>metal; earring>plastic; earring>sailor; earring>wood; earth>aluminium; earth>atmosphere; earth>carbon dioxide; earth>chemical; earth>climate; earth>culture; earth>density; earth>desert; earth>dinosaur; earth>earthquake; earth>evolution; earth>geography; earth>geology; earth>global warming; earth>human; earth>iron; earth>life; earth>lightning; earth>mammal; earth>metre; earth>oxygen; earth>planet; earth>pollution; earth>satellite; earth>season; earth>species; earth>sun; earth>sunlight; earth>tide; earth>tornado; earth>volcano; earth>world; earthquake>building; earthquake>density; earthquake>disease; earthquake>earth; earthquake>fire; earthquake>liquid; earthquake>turkey; earthquake>volcano; east>adjective; east>adverb; east>earth; east>geography; east>map; east>north; east>south; east>west; east>sun; east>west; echo>telephone; ecology>adaptation; ecology>agriculture; ecology>ant; ecology>bacteria; ecology>bee; ecology>biology; ecology>carbon; ecology>carbon dioxide; ecology>climate; ecology>consumer; ecology>coral; ecology>dolphin; ecology>energy; ecology>erosion; ecology>evolution; ecology>extinction; ecology>flower; ecology>gene; ecology>genetics; ecology>global warming; ecology>immigration; ecology>landscape; ecology>leaf; ecology>materialism; ecology>ocean; ecology>oxygen; ecology>pond; ecology>population; ecology>predator; ecology>science; ecology>species; ecology>temperature; ecology>wasps; ecology>whale; economics>banking; economics>budget; economics>capitalism; economics>choice; economics>communication; economics>corporation; economics>economy; economics>exchange rate; economics>experiment; economics>finance; economics>globalization; economics>historian; economics>inflation; economics>insurance; economics>leisure; economics>management; economics>market; economics>money; economics>monopoly; economics>nature; economics>paradigm; economics>policy; economics>politics; economics>pollution; economics>poverty; economics>price; economics>recession; economics>scarcity; economics>science; economics>slavery; economics>slope; economics>socialist; economics>statistics; economics>sustainability; economics>technology; economics>trade; economics>uncertainty; economics>unemployment; economics>wealth; economist>bank; economist>business; economist>college; economist>commerce; economist>communication; economist>economics; economist>finance; economist>globalization; economist>government; economist>history; economist>law; economist>management; economist>market; economist>marketing; economist>philosophy; economist>policy; economist>politician; economist>politics; economist>statistics; economist>theory; economist>university; economy>agriculture; economy>bank; economy>banking; economy>capitalism; economy>coal; economy>commerce; economy>company; economy>competition; economy>corn; economy>currency; economy>debit; economy>debt; economy>demand; economy>economics; economy>economist; economy>engineering; economy>exchange rate; economy>film; economy>finance; economy>geography; economy>globalization; economy>history; economy>inflation; economy>infrastructure; economy>investment; economy>iron; economy>management; economy>manufacturing; economy>mining; economy>profession; economy>research; economy>scarcity; economy>stock market; economy>technology; economy>trade; economy>transport; economy>unemployment; economy>wood; economy>world; edge>blade; edition>paper; education>adult; education>agriculture; education>architecture; education>biology; education>child; education>college; education>curriculum; education>diploma; education>engineering; education>experience; education>history; education>knowledge; education>learning; education>literacy; education>medicine; education>organization; education>philosopher; education>philosophy; education>politics; education>profession; education>professor; education>psychology; education>school; education>science; education>secondary school; education>student; education>syllabus; education>teacher; education>telephone; education>training; education>university; education>violin; education>writing; effect>result; effectiveness>efficiency; effectiveness>management; effectiveness>medicine; effectiveness>physics; efficiency>effectiveness; effort>energy; election>business; election>corporation; election>propaganda; election>referendum; election>statistics; electrician>electronics; electrician>hammer; electricity>air conditioning; electricity>atom; electricity>earth; electricity>electronics; electricity>force; electricity>friction; electricity>headache; electricity>height; electricity>lightning; electricity>lightning; electricity>matter; electricity>muscle; electricity>shark; electricity>steam; electricity>sugar; electricity>switch; electricity>torture; electricity>touch; electricity>wave; electronics>computer; electronics>counter; electronics>electricity; electronics>engineering; electronics>heat; electronics>radiation; electronics>radio; electronics>spice; electronics>switch; electronics>system; electronics>telecommunications; electronics>wire; elegance>beauty; elegance>chemistry; elegance>design; elegance>effectiveness; elegance>engineering; elegance>essence; elegance>pharmacy; elegance>simplicity; elegance>synonym; element>weather; elephant>animal; elephant>camel; elephant>desert; elephant>dna; elephant>dolphin; elephant>emotion; elephant>empathy; elephant>erosion; elephant>giraffe; elephant>lion; elephant>self-awareness; elephant>skull; elephant>tiger; elephant>zoo; elite>capitalism; elite>tax; email>bracket; email>corporation; email>laptop; email>message board; email>mobile phone; email>spelling; embarrassment>anger; embarrassment>anxiety; embarrassment>birthday; embarrassment>criticism; embarrassment>denial; embarrassment>dignity; embarrassment>emotion; embarrassment>environment; embarrassment>gossip; embarrassment>knowledge; embarrassment>privacy; embarrassment>shame; embarrassment>skill; embrace>acceptance; embrace>hug; emergency>accident; emergency>ambulance; emergency>donation; emergency>electricity; emergency>fire; emergency>firefighter; emergency>flood; emergency>gas; emergency>government; emergency>hazard; emergency>health; emergency>human; emergency>life;

emergency>likelihood; emergency>management; emergency>observation; emergency>police; emergency>principle; emergency>probability; emergency>professional;  
emergency>property; emergency>rescue; emergency>risk; emergency>stroke; emergency>tax; emergency>tornado; emergency>training; emission>noise; emotion>aggression;  
emotion>anger; emotion>artificial intelligence; emotion>contempt; emotion>curiosity; emotion>disgust; emotion>disposition; emotion>economics; emotion>education;  
emotion>evolution; emotion>fear; emotion>feeling; emotion>happiness; emotion>history; emotion>hunger; emotion>irritation; emotion>law; emotion>literature; emotion>love;  
emotion>mammal; emotion>marriage; emotion>medicine; emotion>motivation; emotion>philosophy; emotion>psychology; emotion>reason; emotion>reptile; emotion>sadness;  
emotion>virtue; empathy>crowd; empathy>dolphin; empathy>emotion; empathy>fantasy; empathy>pity; empathy>science fiction; empathy>sympathy; empathy>toddler;  
emperor>coup; emperor>empire; emperor>flag; emperor>prime minister; emperor>prince; emperor>religion; emperor>republic; empire>commerce; empire>election;  
empire>emperor; empire>euro; empire>realism; empire>trade; empire>agriculture; employment>contract; employment>debate; employment>democracy;  
employment>discrimination; employment>employee; employment>employer; employment>globalization; employment>human rights; employment>manufacturing;  
employment>poverty; employment>sign; employment>slavery; employment>unemployment; employment>wage; employment>volunteer; employment>workforce; ending>end;  
endurance>anxiety; endurance>patience; endurance>resilience; enemy>anger; enemy>battle; enemy>devil; enemy>disease; enemy>envy; enemy>evil; enemy>fear; enemy>friend;  
enemy>friendship; enemy>frustration; enemy>god; enemy>hate; enemy>hatred; enemy>jealousy; enemy>literature; enemy>pact; enemy>propaganda; enemy>protagonist;  
enemy>religion; enemy>respect; enemy>war; enemy>violence; energy>atmosphere; energy>carbon dioxide; energy>crystal; energy>earthquake; energy>ecology; energy>force;  
energy>friction; energy>fuel; energy>hail; energy>heat; energy>light; energy>lightning; energy>machine; energy>matter; energy>momentum; energy>mountain; energy>oxygen;  
energy>potential; energy>pressure; energy>protein; energy>rain; energy>snow; energy>space; energy>speed; energy>star; energy>system; energy>temperature;  
energy>thermometer; energy>time; energy>tornado; energy>water; energy>wind; energy>volcano; engine>carbon dioxide; engine>carbon footprint; engine>carbon monoxide;  
engine>cattle; engine>electricity; engine>engine; engine>fluid; engine>force; engine>fuel; engine>gear; engine>global warming; engine>hard drive; engine>heat; engine>horse;  
engine>liquid; engine>machine; engine>mining; engine>muscle; engine>oxygen; engine>pressure; engine>pump; engine>rocket; engine>rope; engine>ship; engine>steam;  
engine>steel; engine>temperature; engine>wind; engineer>accountant; engineer>architect; engineer>business; engineer>education; engineer>engineering; engineer>industry;  
engineer>lawyer; engineer>management; engineer>pharmacist; engineer>politician; engineer>profession; engineer>scientist fiction; engineer>scientist; engineer>turkey;  
engineering>aircraft; engineering>architecture; engineering>artificial intelligence; engineering>biology; engineering>bridge; engineering>canal; engineering>chemistry;  
engineering>column; engineering>compromise; engineering>computer; engineering>design; engineering>economics; engineering>electricity; engineering>electronics;  
engineering>energy; engineering>engineer; engineering>harbour; engineering>infrastructure; engineering>logic; engineering>medicine; engineering>philosophy;  
engineering>physics; engineering>profession; engineering>robot; engineering>science; engineering>simulation; engineering>technology; engineering>telecommunications;  
engineering>transportation; enjoyment>happiness; enquiry>inquiry; enterprise>business; enterprise>company; enterprise>organization; entertainer>entertainment;  
entertainment>animation; entertainment>artificial intelligence; entertainment>audience; entertainment>ball; entertainment>ballet; entertainment>baseball; entertainment>basketball;  
entertainment>birthday; entertainment>board game; entertainment>camping; entertainment>cartoon; entertainment>ceremony; entertainment>chef; entertainment>chess;  
entertainment>choir; entertainment>circus; entertainment>clown; entertainment>comedian; entertainment>comedy; entertainment>composer; entertainment>concert;  
entertainment>cooking; entertainment>cricket; entertainment>dance; entertainment>drama; entertainment>education; entertainment>employment; entertainment>fair;  
entertainment>fantasy; entertainment>festival; entertainment>film; entertainment>fun; entertainment>gambling; entertainment>game; entertainment>ice hockey;  
entertainment>imagination; entertainment>insight; entertainment>insult; entertainment>irony; entertainment>jazz; entertainment>joke; entertainment>leisure;  
entertainment>literature; entertainment>marketing; entertainment>millennium; entertainment>monkey; entertainment>music; entertainment>musician; entertainment>novel;  
entertainment>opera; entertainment>orchestra; entertainment>parade; entertainment>party; entertainment>performance; entertainment>poetry; entertainment>professional;  
entertainment>public transport; entertainment>radio; entertainment>recreation; entertainment>rhythm; entertainment>running; entertainment>singing; entertainment>sport;  
entertainment>stadium; entertainment>television; entertainment>theatre; entertainment>tourist; entertainment>tournament; entertainment>warrior; entertainment>wedding;  
entertainment>video game; entertainment>wit; entertainment>writer; entertainment>zoo; enthusiasms>emotion; enthusiasms>enjoyment; enthusiasms>motivation; enthusiasms>poet;  
enthusiasms>prayer; entity>ghost; entity>life; entity>matter; entity>spirit; entrance>door; entrance>gate; envelope>government; envelope>mail; envelope>propaganda;  
envelope>steam; environment>ecology; environmentalist>sustainability; envy>aggression; envy>anger; envy>competition; envy>faith; envy>green; envy>happiness; envy>jealousy;  
envy>love; envy>miracle; envy>motivation; envy>pride; envy>resentment; envy>self-esteem; envy>sin; envy>wealth; envy>well-being; envy>virtue; envy>wisdom; episode>drama;  
episode>edition; episode>news; episode>novel; episode>season; episode>soap opera; equation>addition; equation>formula; equipment>tool; era>music; era>time;  
erosion>agriculture; erosion>climate change; erosion>drought; erosion>forest; erosion>river; erosion>sky; erosion>soil; erosion>starvation; erosion>stream; erosion>vegetation;  
error>appeal; error>biology; error>child; error>coin; error>crime; error>design; error>dna; error>engineer; error>evolution; error>gadget; error>government; error>grammar;  
error>illusion; error>information; error>jury; error>language; error>machine; error>medal; error>noise; error>offspring; error>parent; error>performance; error>pronunciation;  
error>punctuation; error>runway; error>sur; error>statistics; error>system; error>uncertainty; escalator>airport; escalator>aluminium; escalator>department store; escalator>hotel;  
escalator>pedestrian; escalator>stadium; escalator>verb; essay>analysis; essay>argument; essay>art; essay>criticism; essay>dissertation; essay>economics; essay>education;  
essay>metaphor; essay>music; essay>narrative; essay>novel; essay>philosophy; essay>poetry; essay>university; essay>writing; essence>materialism; essence>philosophy;  
essence>soul; euro>coin; euro>commodity; euro>credit card; euro>debit card; euro>exchange rate; euro>interest; euro>speculation; euro>target; evaluation>bias;  
evaluation>collaboration; evaluation>consumer; evaluation>controversy; evaluation>credibility; evaluation>customer; evaluation>data; evaluation>dignity; evaluation>education;  
evaluation>elite; evaluation>experiment; evaluation>goal; evaluation>government; evaluation>health care; evaluation>honesty; evaluation>individual; evaluation>information;  
evaluation>inquiry; evaluation>insight; evaluation>integrity; evaluation>interest; evaluation>interview; evaluation>knowledge; evaluation>management; evaluation>philosophy;  
evaluation>policy; evaluation>politics; evaluation>principle; evaluation>privacy; evaluation>questionnaire; evaluation>reality; evaluation>respect; evaluation>security;  
evaluation>self-esteem; evaluation>statistics; evening>afternoon; evening>dinner; evening>night; evening>sunset; event>business; event>ceremony; event>competition;  
event>festival; event>news; event>party; event>phenomenon; event>sport; evidence>argument; evidence>arrest; evidence>belief; evidence>bias; evidence>crime;  
evidence>debate; evidence>experiment; evidence>hypothesis; evidence>knowledge; evidence>laboratory; evidence>law; evidence>observation; evidence>philosophy;  
evidence>prosecutor; evidence>reason; evidence>resolution; evidence>truth; evidence>validity; evil>devil; evil>ignorance; evil>murder; evil>neglect; evil>philosophy;  
evil>rape; evil>selfishness; evil>sin; evil>slavery; evil>terrorism; evolution>adaptation; evolution>ant; evolution>antibiotic; evolution>atmosphere; evolution>bacteria; evolution>bat;  
evolution>bee; evolution>biology; evolution>bird; evolution>chicken; evolution>crocodyle; evolution>dinosaur; evolution>dna; evolution>donkey; evolution>earth; evolution>ecology;  
evolution>experiment; evolution>extinction; evolution>eye; evolution>fact; evolution>gene; evolution>generation; evolution>global warming; evolution>habitat; evolution>horse;  
evolution>immune system; evolution>insect; evolution>leg; evolution>life; evolution>mammal; evolution>materialism; evolution>monkey; evolution>mouse; evolution>offspring;  
evolution>oxygen; evolution>philosopher; evolution>plant; evolution>poet; evolution>population; evolution>protein; evolution>religion; evolution>reptile; evolution>sex;  
evolution>virus; exaggeration>actor; exaggeration>comedy; exaggeration>evil; exaggeration>gesture; exaggeration>portrait; exaggeration>praise; exaggeration>self-esteem;  
exaggeration>threat; exchange rate>bank; exchange rate>currency; exchange rate>finance; exchange rate>inflation; exchange rate>productivity; exchange>conversation;  
exchange>trade; exclamation mark>apostrophe; exclamation mark>full stop; exclamation mark>irony; exclamation mark>punctuation; exclamation mark>question mark; exclamation  
mark>triangle; exhaust>exhaustion; exhibit>exhibition; exhibit>museum; exhibition>archaeology; exhibition>architect; exhibition>chart; exhibition>craft; exhibition>drawing;  
exhibition>history; exhibition>map; exhibition>museum; exhibition>painting; exhibition>performance; exhibition>science; exhibition>sculpture; exhibition>technology;  
exhibition>writer; exile>coup; exile>prosecution; exile>punishment; exile>refugee; exile>solitude; existence>awareness; existence>belief; existence>consciousness;  
existence>death; existence>definition; existence>entity; existence>essence; existence>hierarchy; existence>life; existence>materialism; existence>matter; existence>mind;  
existence>persistence; existence>proposition; existence>reality; existence>sense; existence>world; exit>door; expedition>exploration; expenditure>cost; expense>asset;  
expense>controversy; expense>cost; expense>debit; expense>employee; expense>expenses; expense>money; expense>tuition; expenses>expense; experience>authority;  
experience>body; experience>consciousness; experience>customs; experience>data; experience>emotion; experience>empathy; experience>experiment; experience>expert;  
experience>extreme sports; experience>imagination; experience>individual; experience>intellect; experience>interaction; experience>logic; experience>memory; experience>mind;  
experience>perception; experience>philosophy; experience>prayer; experience>reality; experience>reason; experience>rumour; experience>sense; experience>thought;  
experience>time; experience>tourism; experience>virtual reality; experience>wisdom; experience>yoga; experiment>agriculture; experiment>astronomy; experiment>chemistry;  
experiment>ecology; experiment>economics; experiment>engineering; experiment>geology; experiment>hypothesis; experiment>laboratory; experiment>measurement;  
experiment>number; experiment>philosophy; experiment>protein; experiment>psychology; experiment>science; experiment>scientist; experiment>solution; experiment>statistics;  
experiment>system; expert>authority; expert>consultant; expert>education; expert>experience; expert>intellectual; expert>judgment; expert>knowledge; expert>law; expert>official;  
expert>opinion; expert>problem; expert>profession; expert>publication; expert>scholar; expert>skill; expert>technician; expert>training; expert>wisdom; explanation>belief;  
explanation>description; explanation>exploration; explanation>inquiry; explanation>knowledge; explanation>proposition; explanation>theory; explanation>understanding;  
exploration>adventure; exploration>explanation; exploration>history; exploration>information; explosion>animal; explosion>bomb; explosion>camera; explosion>chemical;  
explosion>energy; explosion>flame; explosion>gas; explosion>heat; explosion>missile; explosion>planet; explosion>pressure; explosion>star; explosion>sun; explosion>volcano;  
explosion>volume; export>customer; export>import; export>management; export>regulation; exposure>chemical; exposure>publicity; extinction>animal; extinction>biology;  
extinction>climate change; extinction>death; extinction>dinosaur; extinction>earth; extinction>ecology; extinction>evolution; extinction>global warming; extinction>goat;  
extinction>government; extinction>habitat; extinction>horse; extinction>mosquito; extinction>philosophy; extinction>plant; extinction>pollution; extinction>population;  
extinction>predator; extinction>rat; extinction>reproduction; extinction>risk; extinction>selection; extinction>species; extinction>technology; extinction>water; extinction>virus;  
extinction>zebra; extinction>zoo; extract>alcohol; extract>banana; extract>cherry; extract>grain; extract>lemon; extract>peach; extract>pineapple; extract>rose; extract>strawberry;  
extract>water; eye>animal; eye>brain; eye>camera; eye>colour; eye>crystal; eye>darkness; eye>eyelid; eye>fish; eye>horse; eye>light; eye>mirror; eye>prawn; eye>pupil;  
eye>rabbit; eye>snake; eye>sunlight; eyebrow>anger; eyebrow>mammal; eyebrow>rain; eyebrow>sweat; eyelash>camel; eyelash>cat; eyelash>cow; eyelash>dust; eyelash>eyelid;  
eyelash>horse; eyelash>insect; eyelash>mammal; eyelash>mouse; eyelid>antibiotic; eyelid>bacteria; eyelid>death; eyelid>eyelash; eyelid>skin; face>brain; face>cheek; face>chin;  
face>communication; face>ear; face>emotion; face>eyebrow; face>eyelash; face>eyelid; face>forehead; face>hair; face>head; face>lip; face>nostril; face>person; face>sense;  
face>taste; face>temperature; face>tooth; facilities>facility; facility>building; facility>hotel; facility>installation; facility>resort; facility>school; face>adverb; facts>crime; facts>experience;  
fact>hypothesis; fact>lie; fact>philosophy; fact>preposition; fact>reality; fact>theory; fact>truth; factory>canal; factory>colton; factory>globalization; factory>independence;  
factory>industrialization; factory>interaction; factory>machine; factory>management; factory>manufacturing; factory>organization; factory>paint; factory>public transport;  
factory>regulation; factory>statistics; factory>tool; factory>tram; factory>warehouse; factory>wheel; failure>competition; failure>disaster; failure>observation; failure>perception;  
failure>prediction; fair>entertainment; fair>exhibition; fair>festival; fair>harvest; fair>holiday; fair>market; fair>people; fairness>justice; faith>belief; faith>confidence; faith>god;  
faith>knowledge; faith>logic; faith>mind; faith>perception; faith>philosopher; faith>philosophy; faith>probability; faith>psychologist; faith>reason; faith>religion; faith>virtue;  
fake>deception; fake>forgery; fall>autumn; fame>celebrity; family>advertising; family>animal; family>aunt; family>belief; family>brother-in-law; family>capitalism; family>city;  
family>civilization; family>community; family>cousin; family>daughter; family>divorce; family>family; family>father; family>grandmother; family>grandparent; family>household; family>human;  
family>industrialization; family>infant; family>love; family>marriage; family>mother; family>nation; family>nephew; family>niece; family>people; family>region; family>resource;  
family>science; family>sibling; family>sister-in-law; family>son; family>uncle; family>village; fame>agriculture; fame>bureaucracy; fame>cash; fame>climate; fame>climate change;  
famine>crime; fame>death; fame>disaster; fame>drought; fame>erosion; fame>farmer; fame>fishing; fame>food; fame>god; fame>grain; fame>hunger;  
famine>hunting; fame>income; fame>infrastructure; fame>law; fame>leisure; fame>market; fame>mobile phone; fame>money; fame>peasant; fame>relief;  
famine>seed; fame>starvation; fame>sustainability; fame>tax; fame>war; fame>vegetarian; fame>wheat; fame>volcano; fantasy>fiction; fantasy>hero; fantasy>history;  
fantasy>legend; fantasy>literature; fantasy>monster; fantasy>realm; fantasy>science fiction; fare>airline; fare>bus; fare>fee; fare>passenger; fare>public transport; farm>agriculture;  
farm>beef; farm>butter; farm>cattle; farm>cheese; farm>chicken; farm>coffee; farm>colton; farm>cream; farm>democracy; farm>duck; farm>farm; farm>farming; farm>fibre;  
farm>food; farm>fuel; farm>grain; farm>lake; farm>mammal; farm>meat; farm>milk; farm>produce; farm>river; farm>sea; farm>socialist; farm>stable; farm>tobacco; farm>tractor;

farmer>agriculture; farmer>cattle; farmer>chicken; farmer>dog; farmer>duck; farmer>employment; farmer>farm; farmer>feather; farmer>gardener; farmer>gardening; farmer>goat; farmer>horse; farmer>market; farmer>meat; farmer>peasant; farmer>poverty; farmer>sheep; farmer>subsidy; farming>agriculture; fashion>beauty; fashion>brand; fashion>clothing; fashion>generation; fashion>geography; fashion>grammar; fashion>language; fashion>logo; fashion>peasant; fashion>perfume; fashion>profession; fashion>society; fashion>turkey; fast food>chicken; fast food>coast; fast food>cucumber; fast food>curry; fast food>cultery; fast food>ice cream; fast food>junk food; fast food>meat; fast food>menu; fast food>onion; fast food>pancake; fast food>pie; fast food>pizza; fast food>restaurant; fast food>rice; fast food>salad; fast food>sausage; fast food>soft drink; fast food>turkey; fat>butter; fat>chemistry; fat>energy; fat>gram; fat>hair; fat>liquid; fat>mouse; fat>obesity; fat>skin; fat>vitamin; fate>destiny; father>adjective; father>advertisement; father>bear; father>bird; father>cartoon; father>child; father>dog; father>dolphin; father>duck; father>fish; father>horse; father>housewife; father>human; father>insect; father>lion; father>marriage; father>mother; father>nest; father>parent; father>rape; father>reptile; father>swan; father>verb; fault>error; favourite>architect; favourite>chess; favourite>essay; favourite>mushroom; favourite>prime minister; fear>adaptation; fear>anger; fear>anxiety; fear>bridge; fear>clown; fear>dancing; fear>death; fear>drum; fear>emotion; fear>evil; fear>evolution; fear>failure; fear>fright; fear>future; fear>ghost; fear>happiness; fear>mammal; fear>nightmare; fear>pain; fear>panic; fear>people; fear>psychologist; fear>risk; fear>sadness; fear>singing; fear>snake; fear>solitude; fear>spider; fear>terrorism; fear>threat; fear>tunnel; fear>uncertainty; fear>war; fear>water; feast>festival; feather>beak; feather>bird; feather>blanket; feather>clothing; feather>dinosaur; feather>eagle; feather>eyelash; feather>hair; feather>heat; feather>mammal; feather>parrot; feather>penguin; feather>pillow; feather>pollution; feather>predator; feather>protein; feather>reptile; feather>skin; february>august; february>cabbage; february>day; february>monday; february>month; february>season; february>week; february>year; fee>apartment; fee>cost; fee>flight; fee>illness; fee>interest; fee>lottery; fee>luggage; fee>noise; fee>parking; fee>price; fee>refund; fee>shopping; fee>subsidy; fee>tourism; fee>tuition; fee>upgrade; feedback>electronics; feedback>gain; feedback>gene; feedback>information; feedback>interaction; feedback>investment; feedback>knowledge; feedback>organization; feedback>phenomenon; feedback>protein; feedback>psychology; feedback>revolution; feedback>stock; feedback>stock market; feedback>system; feeling>emotion; feeling>experience; feeling>perception; feeling>touch; female>animal; female>ant; female>bee; female>bird; female>breast; female>evolution; female>genetics; female>girl; female>insect; female>male; female>mammal; female>milk; female>plant; female>reproduction; female>sex; female>shark; female>woman; fence>balcony; fence>bridge; fence>bull; fence>habitat; fence>hedge; fence>roof; fence>transport; fence>wall; fence>water; ferry>boat; ferry>bridge; ferry>global warming; ferry>knot; ferry>ship; ferry>subtitles; ferry>tunnel; ferry>yacht; festival>bad; festival>good; festival>holiday; festival>idiom; festival>meal; festival>party; festival>religion; festival>season; fever>aspirin; fever>camel; fever>cancer; fever>cold; fever>disease; fever>ear; fever>horse; fever>human; fever>surgery; fever>symptom; fiction>advertising; fiction>author; fiction>biography; fiction>blog; fiction>confusion; fiction>dialogue; fiction>fantasy; fiction>fear; fiction>film; fiction>history; fiction>imagination; fiction>literature; fiction>metaphor; fiction>narrative; fiction>novel; fiction>poetry; fiction>propaganda; fiction>property; fiction>protagonist; fiction>religion; fiction>school; fiction>science fiction; fiction>song; fiction>symbol; fiction>theatre; fiction>theory; fiction>tragedy; field>lawn; fight>combat; fighting>combat; figure>drawing; figure>number; figure>shape; film>actor; film>advertising; film>amateur; film>animation; film>art; film>ballet; film>camera; film>celebrity; film>cheese; film>commerce; film>culture; film>dialogue; film>documentary; film>download; film>dvd; film>entertainment; film>language; film>magazine; film>newspaper; film>opera; film>orchestra; film>photography; film>piano; film>sound; film>soundtrack; film>subtitles; film>technology; film>television; film>translation; film>video; finance>asset; finance>bank; finance>business; finance>certainty; finance>economics; finance>inflation; finance>insurance; finance>investment; finance>price; finance>retirement; finance>stock; finger>hand; finger>human; finger>injury; finger>joint; finger>muscle; finger>thumb; finger>toe; fire station>radio; fire>agriculture; fire>atom; fire>candle; fire>chemical; fire>cigarette; fire>coal; fire>cooking; fire>crime; fire>digestion; fire>electricity; fire>firefighter; fire>flame; fire>fuel; fire>habitat; fire>heat; fire>industry; fire>landscape; fire>lead; fire>light; fire>material; fire>oil; fire>school; fire>smoke; fire>temperature; fire>torture; fire>water; fire>vehicle; fire>wood; firefighter>carbon; firefighter>carbon monoxide; firefighter>fuel; firefighter>hazard; firefighter>horse; firefighter>nurse; firefighter>oxygen; firefighter>rescue; fireplace>architecture; fireplace>carbon monoxide; fireplace>chimney; fireplace>lung; fireplace>wood; firm>business; first language>language; fish>adaptation; fish>animal; fish>bee; fish>carbon dioxide; fish>crocodile; fish>digestion; fish>fishing; fish>heart; fish>jaw; fish>kidney; fish>liver; fish>mammal; fish>mouth; fish>nostril; fish>oxygen; fish>pain; fish>salmon; fish>shark; fish>skate; fish>species; fish>stomach; fish>suffering; fish>synonym; fish>tuna; fish>vein; fisherman>community; fisherman>culture; fisherman>fish; fisherman>fishing; fisherman>flood; fisherman>shark; fisherman>tuna; fishing>arrow; fishing>beer; fishing>boat; fishing>cod; fishing>community; fishing>crab; fishing>culture; fishing>demand; fishing>ecology; fishing>fish; fishing>fisherman; fishing>market; fishing>miracle; fishing>mouth; fishing>pleasure; fishing>protein; fishing>recreation; fishing>river; fishing>salmon; fishing>sea; fishing>shark; fishing>ship; fishing>tomb; fishing>tuna; fishing>water; fishing>wine; fist>squad; flag>advertising; flag>cargo; flag>communication; flag>country; flag>customs; flag>golf; flag>nation; flag>navy; flag>pollution; flag>referee; flag>shark; flag>socialism; flag>sport; flag>turkey; flag>wave; flag>yacht; flame>air; flame>atmosphere; flame>carbon; flame>candle; flame>carbon; flame>carbon monoxide; flame>earthen; flame>energy; flame>fire; flame>firework; flame>fuel; flame>gas; flame>heat; flame>industry; flame>laboratory; flame>light; flame>lighter; flame>oxygen; flame>ozone; flame>smoke; flame>temperature; flame>wood; flash>lightning; flat>apartment; flash>animal; flash>biology; flash>bone; flash>fat; flash>food; flash>human; flash>meat; flash>music; flight>air; flight>aircraft; flight>atmosphere; flight>ball; flight>balloon; flight>bat; flight>bird; flight>bullet; flight>density; flight>dinosaur; flight>earth; flight>evolution; flight>firework; flight>force; flight>friction; flight>helicopter; flight>insect; flight>kite; flight>landing; flight>machine; flight>mammal; flight>missile; flight>momentum; flight>penguin; flight>rocket; flight>satellite; flight>ship; flight>skin; flight>species; flight>weight; flight>wing; flood>canal; flood>civilization; flood>commerce; flood>concrete; flood>culture; flood>death; flood>earthquake; flood>farmer; flood>lake; flood>property; flood>river; flood>thunderstorm; flood>tide; flood>water; flood>wind; flood>air conditioning; flood>balcony; flood>carpet; flood>ceiling; flood>employment; flood>soil; flood>storey; flour>bread; flour>cake; flour>carbon dioxide; flour>cereal; flour>coconut; flour>dessert; flour>explosive; flour>flower; flour>grain; flour>ingredient; flour>pancake; flour>pasta; flour>peanut; flour>potato; flour>pudding; flour>rice; flour>root; flour>salt; flour>sauce; flour>wheat; flour>vitamin; flour>adaptation; flour>bee; flour>beer; flour>bird; flour>broccoli; flour>chicken; flour>dna; flour>extinction; flour>female; flour>fruit; flour>lunar; flour>garden; flour>honey; flour>insect; flour>leaf; flour>protein; flour>reproduction; flour>root; flour>rose; flour>seed; flour>spice; flour>symbol; flour>sympathy; flour>temperature; flour>temple; flower>code; fluency>information; fluency>person; fluency>system; fluency>understanding; fluid>gas; fluid>liquid; fluid>matter; fluid>physics; fluid>pressure; flute>human; flute>musician; flute>sound; flute>swan; flute>whistle; flute>volume; fly>butterfly; fly>dna; fly>fish; fly>insect; fly>literature; fly>mosquito; fly>novel; fly>poem; fly>species; fly>wound; fog>crystal; fog>hall; fog>ice; fog>mist; fog>slope; fog>smog; fog>steam; fog>valley; fog>water; folk>crowd; folk>ecology; folk>people; folk>tribe; follower>poem; food>acid; food>advertising; food>agriculture; food>animal; food>bacon; food>bacteria; food>bean; food>bee; food>beef; food>blood; food>brand; food>bread; food>broccoli; food>butcher; food>butter; food>cabbage; food>café; food>carrot; food>cereal; food>cheese; food>chef; food>chewing gum; food>chicken; food>chocolate; food>climate change; food>commodity; food>cooking; food>corporation; food>counter; food>ecology; food>energy; food>evolution; food>famine; food>fast food; food>fat; food>fish; food>fruit; food>frying pan; food>fuel; food>honey; food>human; food>hygiene; food>immune system; food>import; food>junk food; food>kidney; food>kitchen; food>lemon; food>lettuce; food>meal; food>meat; food>milk; food>muscle; food>mushroom; food>obesity; food>onion; food>oven; food>pasta; food>pea; food>peanut; food>plant; food>pork; food>potato; food>pottery; food>protein; food>rash; food>restaurant; food>rice; food>salad; food>salmon; food>salt; food>seed; food>soup; food>spinach; food>starvation; food>steam; food>sugar; food>supermarket; food>sustainability; food>sweet; food>laste; food>tobacco; food>tomato; food>tool; food>tractor; food>tuna; food>vegetable; food>vegetarian; food>wheat; food>vinegar; food>virus; food>vitamin; food>yogurt; foot>clown; foot>ankle; foot>bone; foot>cow; foot>heel; foot>hip; foot>horse; foot>infection; foot>knee; foot>leg; foot>muscle; foot>paw; foot>sheep; foot>shoe; foot>sweat; football>basketball; football>blindness; football>gymnastics; football>ice hockey; football>leather; football>peasant; football>professional; football>referee; football>sand; football>silk; football>team; football>tradition; football>try; football>volleyball; football>yard; force>angle; force>atom; force>basketball; force>blog; force>day; force>density; force>diagram; force>earth; force>energy; force>flight; force>fluid; force>friction; force>heat; force>interaction; force>logic; force>measurement; force>momentum; force>nature; force>observation; force>physics; force>planet; force>potential; force>pressure; force>revolution; force>second; force>space; force>speed; force>surface; force>temperature; force>wave; force>wind; force>year; forehead>eyebrow; forehead>frown; forehead>wrinkle; forest>bacteria; forest>earth; forest>plant; forest>rainforest; forest>soil; forest>tree; forest>wilderness; forest>woodland; forgery>currency; forgery>deception; forgery>document; forgery>murder; forgery>label; forgery>money; forgery>photography; forgiveness>anger; forgiveness>god; forgiveness>grief; forgiveness>happiness; forgiveness>medicine; forgiveness>prayer; forgiveness>punishment; forgiveness>religion; forgiveness>resentment; fork>bronze; fork>cutlery; fork>knife; fork>spoon; form>shape; formula>atom; formula>calculation; formula>computer; formula>equation; formula>ozone; formula>science; formula>sphere; formula>spreadsheet; formula>water; formula>volume; fortnight>day; fortnight>week; fortune>luck; fortune>wealth; fountain>paradise; fountain>pump; fox>animal; fox>berry; fox>bird; fox>continent; fox>dog; fox>extinction; fox>farm; fox>fish; fox>fruit; fox>fur; fox>grass; fox>insect; fox>mammal; fox>reptile; fox>snake; fox>species; fox>tail; frame>glasses; fraud>contract; fraud>credit card; fraud>crime; fraud>deception; fraud>money; fraud>stock market; freedom>liberty; frenzy>dvd; frenzy>murder; frenzy>narrative; frenzy>prison; friction>atmosphere; friction>carbon monoxide; friction>copper; friction>experiment; friction>explosion; friction>fluid; friction>force; friction>heat; friction>measurement; friction>road; friction>surface; friction>temperature; friday>corporation; friday>fish; friday>mosque; friday>potato; friday>saturday; friday>sunset; friday>thursday; friend>friendship; friendship>affection; friendship>bird; friendship>cancer; friendship>cat; friendship>cattle; friendship>competition; friendship>discrimination; friendship>divorce; friendship>dog; friendship>empathy; friendship>farmer; friendship>happiness; friendship>honesty; friendship>hospital; friendship>infection; friendship>loyalty; friendship>mail; friendship>mammal; friendship>marriage; friendship>milk; friendship>nickname; friendship>philosophy; friendship>scarcity; friendship>self-esteem; friendship>sympathy; friendship>toy; friendship>understanding; friendship>vaccine; fright>fear; frog>beak; frog>bone; frog>carbon dioxide; frog>climbing; frog>electricity; frog>extinction; frog>eye; frog>fish; frog>heart; frog>kidney; frog>leg; frog>mammal; frog>mouth; frog>oxygen; frog>protein; frog>rib; frog>running; frog>snake; frog>tail; frog>tongue; frog>walking; frog>witch; frontier>border; frontier>turkey; frost>air; frost>crystal; frost>freezer; frost>glass; frost>helicopter; frost>ice; frost>temperature; frost>wind; frost>winter; frown>concentration; frown>confusion; frown>sadness; frown>smile; frown>worry; fruit>agriculture; fruit>animal; fruit>apple; fruit>banana; fruit>bean; fruit>berry; fruit>cake; fruit>carrot; fruit>cereal; fruit>cherry; fruit>coconut; fruit>cookie; fruit>cucumber; fruit>evolution; fruit>flower; fruit>grape; fruit>human; fruit>ice cream; fruit>lemon; fruit>mango; fruit>melon; fruit>nutrion; fruit>olive; fruit>pea; fruit>peach; fruit>peanut; fruit>pear; fruit>pineapple; fruit>rice; fruit>rose; fruit>seed; fruit>spice; fruit>strawberry; fruit>tomato; fruit>water; fruit>vegetable; fruit>wheat; fruit>wine; fruit>vinegar; frustration>anger; frustration>confidence; frustration>disappointment; frustration>fear; frying pan>aluminium; frying pan>bacon; frying pan>copper; fuel>barbecue; fuel>carbon; fuel>carbon dioxide; fuel>carbon monoxide; fuel>cereal; fuel>coal; fuel>diesel; fuel>earth; fuel>electricity; fuel>energy; fuel>engine; fuel>gas; fuel>global warming; fuel>heating; fuel>kilogram; fuel>star; fuel>wheat; fuel>wood; full stop>punctuation; fun>entertainment; fun>happiness; fun>joy; fun>leisure; fun>pleasure; fun>recreation; fun>funding; fun>donation; funding>finance; funding>investment; funding>money; funding>project; funding>savings; funding>subsidy; funding>tax; funeral>burial; funeral>celebrity; funeral>ceremony; funeral>corpse; funeral>culture; funeral>death; funeral>diamond; funeral>flower; funeral>infant; funeral>prison; funeral>religion; funeral>ritual; funeral>science fiction; funeral>tomb; fur>animal; fur>fox; fur>hair; fur>leather; fur>mammal; fur>rabbit; fur>velvet; fur>wool; furniture>house; furniture>oak; furniture>reform; furniture>sculpture; furniture>turkey; future>architecture; future>art; future>belief; future>death; future>destiny; future>dimension; future>evolution; future>existence; future>fiction; future>ghost; future>god; future>history; future>hope; future>information; future>logic; future>materialism; future>mind; future>music; future>nature; future>optimism; future>painting; future>philosophy; future>poetry; future>prediction; future>present; future>probability; future>reality; future>religion; future>risk; future>robot; future>science; future>science fiction; future>sculpture; future>simulation; future>space; future>speed; future>spirit; future>technology; future>theatre; future>theory; future>thesis; future>time; future>uncertainty; future>violence; gadget>electronics; gadget>machine; gadget>novelty; gadget>tool; gain>electronics; gain>ratio; gallery>audience; gallery>balcony; gallery>mining; gallery>museum; gallery>retail; gamble>gambling; gambling>coin; gambling>election; gambling>insurance; gambling>law; gambling>lottery; gambling>money; gambling>probability; gambling>recreation; gambling>speculation; gambling>stock; gambling>television; game>art; game>artificial intelligence; game>baseball; game>basketball; game>board game; game>book; game>chess; game>city; game>competition; game>computer; game>cricket; game>dice; game>education; game>enjoyment; game>entertainment; game>exercise; game>gymnastics; game>hunting; game>interaction; game>lawn; game>leather; game>luck; game>marketing; game>money; game>party; game>psychology; game>puzzle; game>school; game>simulation; game>skill; game>sport; game>strategy; game>table tennis; game>tennis; game>town; game>toy; game>training; game>war; game>video game; game>volleyball; gang>harassment; gang>ritual; gang>robbery; gang>terrorism; gang>theft; gang>violence; garden>bird; garden>carbon dioxide; garden>climate change; garden>flower; garden>food; garden>fountain; garden>gardener; garden>gardening; garden>insect; garden>landscape; garden>light; garden>lighting; garden>nature; garden>ocean; garden>opera; garden>paradise; garden>park; garden>plant; garden>pollution; garden>rain; garden>sculpture; garden>season; garden>shed; garden>soil; garden>sunshine; garden>trail; garden>tree; garden>water; garden>wildlife; garden>wind; garden>zoo; gardeners>gardening; gardeners>agriculture; gardeners>air conditioning; gardeners>animal; gardeners>ant; gardeners>balcony; gardeners>basket; gardeners>bird; gardeners>cat; gardeners>civilization; gardeners>flower; gardeners>fruit; gardeners>garden; gardeners>herb; gardeners>hobby; gardeners>hygiene; gardeners>insect; gardeners>ladder; gardeners>lawn; gardeners>leaf; gardeners>medicine; gardeners>plant; gardeners>seed;

gardening>spade; gardening>tourism; gardening>tree; gardening>weed; gardening>wildlife; gardening>zoo; garlic>antibiotic; garlic>aspirin; garlic>bird; garlic>blood; garlic>bulb; garlic>cancer; garlic>cholesterol; garlic>glass; garlic>infection; garlic>insect; garlic>iron; garlic>juice; garlic>leek; garlic>onion; garlic>oven; garlic>pasta; garlic>pregnancy; garlic>protein; garlic>tomato; garlic>weed; garlic>wine; garlic>vinegar; garlic>worm; garment>clothing; gas>air; gas>air conditioning; gas>atmosphere; gas>breath; gas>carbon dioxide; gas>chemist; gas>cooking; gas>density; gas>iron; gas>lighting; gas>lighting; gas>liquid; gas>lung; gas>mixture; gas>momentum; gas>oxygen; gas>parachute; gas>particle; gas>pressure; gas>sailing; gas>smoke; gas>statistics; gas>temperature; gas>weather; gas>wind; gate>border; gate>castle; gate>door; gate>fence; gate>road; gate>wall; gear>friction; gear>ratio; gender>biology; gender>breast; gender>butterfly; gender>chemistry; gender>clothing; gender>disability; gender>discrimination; gender>dna; gender>education; gender>gene; gender>genetics; gender>god; gender>history; gender>intelligence; gender>language; gender>nationality; gender>noun; gender>oxygen; gender>protein; gender>psychology; gender>sex; gender>species; gene>ancestor; gene>bacteria; gene>biology; gene>data; gene>dna; gene>electronics; gene>evolution; gene>generation; gene>genetics; gene>hypothesis; gene>infection; gene>life; gene>mouse; gene>pea; gene>protein; gene>region; gene>species; gene>symbol; gene>virus; generalization>animal; generalization>bird; generalization>dog; generalization>fish; generalization>logic; generalization>mammal; generalization>reasoning; generalization>reptile; generalization>triangle; generalization>biology; generalization>career; generalization>child; generalization>childhood; generalization>grandmother; generalization>mother; generalization>offspring; generalization>reproduction; generalization>salary; generalization>gift; generalization>poison; generalization>selfishness; generalization>virtue; generalization>adaptation; generalization>animal; generalization>bacteria; generalization>biology; generalization>cancer; generalization>dna; generalization>evolution; generalization>genetics; generalization>genetics>health; generalization>health care; generalization>human; generalization>nutrition; generalization>pea; generalization>plant; generalization>protein; generalization>science; generalization>virus; generalization>genius>creativity; generalization>genius>evolution; generalization>genius>expert; generalization>genius>insight; generalization>genius>intelligence; generalization>genius>person; generalization>philosopher; generalization>genius>statistics; generalization>gentleman>business; generalization>gentleman>citizen; generalization>gentleman>cricket; generalization>gentleman>education; generalization>gentleman>family; generalization>gentleman>honour; generalization>gentleman>irony; generalization>lady; generalization>prince; generalization>salary; generalization>trade; generalization>university; generalization>virtue; geography>art; geography>astronomy; geography>climate; geography>communication; geography>culture; geography>database; geography>earth; geography>economics; geography>geology; geography>globalization; geography>horizon; geography>human; geography>interaction; geography>map; geography>mountain; geography>planet; geography>politics; geography>science; geography>soil; geography>space; geography>sustainability; geography>transport; geography>university; geography>valley; geography>water; geology>atmosphere; geology>climate change; geology>earth; geology>earthquake; geology>erosion; geology>evolution; geology>floor; geology>geography; geology>intrusion; geology>landscape; geology>metal; geology>mining; geology>mountain; geology>museum; geology>river; geology>science; geology>volcano; gerund>adjective; gerund>adverb; gerund>clause; gerund>infinitive; gerund>noun; gerund>phrase; gerund>preposition; gerund>verb; gesture>dance; gesture>face; gesture>hand; gesture>speech; gesture>word; ghost>analogy; ghost>animal; ghost>classic; ghost>fear; ghost>fiction; ghost>god; ghost>mind; ghost>perception; ghost>religion; ghost>sacrifice; ghost>sleep; ghost>spirit; gift>baby; gift>birthday; gift>boyfriend; gift>bribery; gift>cake; gift>drink; gift>economics; gift>examination; gift>father; gift>food; gift>forgiveness; gift>friendship; gift>funeral; gift>girlfriend; gift>happiness; gift>kindness; gift>love; gift>money; gift>mother; gift>property; gift>retirement; gift>sacrifice; gift>souvenir; gift>student; gift>wedding; giraffe>animal; giraffe>camel; giraffe>leopard; giraffe>lion; giraffe>mammal; giraffe>rib; giraffe>skull; giraffe>tick; giraffe>woodland; girl>adult; girl>boy; girl>childhood; girl>confirmation; girl>education; girl>female; girl>girlfriend; girl>human; girl>man; girl>turkey; girl>woman; girlfriend>boyfriend; girlfriend>friendship; girlfriend>marriage; girlfriend>wedding; glass>bottle; glass>carbon dioxide; glass>chemical; glass>crystal; glass>lighting; glass>sand; glass>telescope; glass>vase; glass>>window; glass>volume; glasses>blindness; glasses>chef; glasses>department store; glasses>ear; glasses>fashion; glasses>glass; glasses>hat; glasses>laser; glasses>light; glasses>pharmacy; glasses>plastic; glasses>radiation; glasses>sunglasses; glasses>virtual reality; global warming>atmosphere; global warming>carbon dioxide; global warming>cloud; global warming>desert; global warming>energy; global warming>extinction; global warming>flood; global warming>ice; global warming>ocean; global warming>ozone; global warming>planet; global warming>plant; global warming>probability; global warming>satellite; global warming>space; global warming>snow; global warming>soil; global warming>statistics; global warming>summer; global warming>technology; global warming>water; global warming>volcano; globalization>accountant; globalization>airline; globalization>banking; globalization>business; globalization>capitalism; globalization>carbon dioxide; globalization>cash; globalization>climate change; globalization>communication; globalization>community; globalization>construction; globalization>crime; globalization>culture; globalization>curriculum; globalization>democracy; globalization>earth; globalization>economics; globalization>economist; globalization>exchange rate; globalization>famine; globalization>fast food; globalization>finance; globalization>global warming; globalization>habitat; globalization>health; globalization>human rights; globalization>immigration; globalization>import; globalization>income; globalization>industrialization; globalization>innovation; globalization>insurance; globalization>investment; globalization>investor; globalization>knowledge; globalization>leisure; globalization>liberty; globalization>life; globalization>marriage; globalization>nature; globalization>nature; globalization>passport; globalization>peasant; globalization>philosophy; globalization>pollution; globalization>propaganda; globalization>recreation; globalization>religion; globalization>river; globalization>socialism; globalization>tourism; globalization>solidarity; globalization>sustainability; globalization>tax; globalization>technology; globalization>the internet; globalization>tiger; globalization>tourism; globalization>trade; globalization>transport; globalization>transportation; globalization>travel; globalization>war; globalization>wealth; glove>baseball; glove>child; glove>cigarette; glove>confirmation; glove>cricket; glove>cycling; glove>evidence; glove>fashion; glove>finger; glove>garden; glove>gardening; glove>garment; glove>hand; glove>hat; glove>lady; glove>leather; glove>patient; glove>silk; glove>silver; glove>skateboard; glove>ski; glove>steering wheel; glove>thumb; glove>wheelchair; glove>wool; glove>wrist; goal>belief; goal>commerce; goal>cost; goal>customer; goal>emotion; goal>motivation; goal>person; goal>system; goalkeeper>ice hockey; goalkeeper>sport; goat>adolescent; goat>animal; goat>butter; goat>cheese; goat>cow; goat>curry; goat>devil; goat>erosion; goat>fish; goat>ice cream; goat>iron; goat>litre; goat>mammal; goat>milk; goat>offspring; goat>pet; goat>poverty; goat>religion; goat>saint; goat>sausage; goat>sheep; goat>spoon; goat>starvation; goat>tree; goat>weed; goat>vine; goat>wine; goat>yogurt; god>angel; god>body; god>existence; god>faith; god>gender; god>nature; god>necessity; god>plural; god>reason; god>revelation; god>saint; god>simplicity; god>soap opera; god>turkey; god>world; god>worship; gold>aluminium; gold>badge; gold>bronze; gold>cancer; gold>chemistry; gold>coin; gold>computer; gold>copper; gold>currency; gold>electronics; gold>evil; gold>geology; gold>icon; gold>inflation; gold>iron; gold>lead; gold>metal; gold>money; gold>ocean; gold>receipt; gold>satellite; gold>silver; gold>sun; gold>tin; gold>trophy; gold>vehicle; gold>weight; golf>sport; gossip>blackmail; gossip>celebrity; gossip>community; gossip>curiosity; gossip>information; gossip>popularity; gossip>reputation; gossip>scandal; gossip>self-esteem; gossip>sin; government>alliance; government>bureaucracy; government>capitalism; government>constitution; government>corruption; government>democracy; government>economics; government>election; government>empire; government>fear; government>hate; government>history; government>hospital; government>human rights; government>jury; government>liberty; government>majority; government>philosophy; government>police; government>policy; government>politics; government>republic; government>school; government>science; government>science fiction; government>socialism; government>synonym; government>terrorism; gram>kilogram; gram>metre; gram>water; grammar>communication; grammar>education; grammar>first language; grammar>learning; grammar>nationality; grammar>observation; grammar>phrase; grammar>primary school; grammar>punctuation; grammar>usage; grandchild>family; granddad>grandparent; granddaughter>family; grandfather>grandparent; grandpa>grandparent; grandmother>grandparent; grandpa>grandparent; grandparents>aunt; grandparents>child; grandparents>cousin; grandparents>father; grandparents>gene; grandparents>mother; grandparents>parent; grandparents>plural; grandparents>uncle; grandson>family; granny>chimney; granny>grandparent; grape>agriculture; grape>berry; grape>brain; grape>cancer; grape>fruit; grape>heart; grape>jam; grape>nerve; grape>vine; grape>wine; grape>vinegar; grape>virus; graph>chart; graph>diagram; graphics>animation; graphics>art; graphics>brand; graphics>business; graphics>concept; graphics>drawing; graphics>economics; graphics>engineering; graphics>game; graphics>geography; graphics>idea; graphics>illustration; graphics>image; graphics>newspaper; graphics>number; graphics>painting; graphics>paper; graphics>photograph; graphics>poster; graphics>science; graphics>space; graphics>symbol; graphics>video game; graphics>wood; grasp>hand; grass>animal; grass>baseball; grass>beer; grass>cattle; grass>cereal; grass>clothing; grass>construction; grass>cricket; grass>desert; grass>dinosaur; grass>drought; grass>food; grass>fuel; grass>golf; grass>grain; grass>horse; grass>human; grass>kangaroo; grass>lawn; grass>paper; grass>plant; grass>rabbit; grass>rice; grass>sheep; grass>suburb; grass>tennis; grass>wheat; grass>whisky; grave>archaeology; grave>burial; grave>cemetery; grave>culture; grave>pyramid; grave>religion; grave>soul; grave>tomb; greatness>genius; greed>authority; greed>popularity; greed>robbery; green>blue; green>copper; green>devil; green>envy; green>experience; green>firework; green>fish; green>frog; green>gambling; green>grass; green>greed; green>health; green>hope; green>illness; green>insomnia; green>jealousy; green>laser; green>leaf; green>leak; green>money; green>nature; green>perception; green>prostitute; green>protein; green>purple; green>red; green>traffic light; green>white; green>yellow; green>youth; greeting>culture; greeting>gesture; greeting>hug; greeting>telephone; greetings>tradition; grey>baseball; grey>black; grey>blue; grey>brain; grey>earth; grey>environmentalist; grey>fog; grey>green; grey>intellectual; grey>lead; grey>pink; grey>prayer; grey>profession; grey>red; grey>religion; grey>speed; grey>white; grey>yellow; grief>deer; grief>elephant; grief>laughter; grief>lion; grief>professor; grief>psychiatrist; grief>psychoanalyst; grief>suicide; grief>terrorism; grief>widow; grief>restaurant; grin>smile; groom>bride; groom>spouse; ground>coffee; ground>lawn; ground>philosophy; ground>soil; ground>stadium; group>enemy; group>family; group>friend; group>guide; group>immigrant; group>nationality; group>organization; group>supporter; growth>height; growth>interest; growth>money; guard>police; guest>hospitality; guidance>guide; guide>culture; guide>ecology; guide>fishing; guide>hunting; guide>salmon; guide>sport; guide>wilderness; guitar>bone; guitar>brass; guitar>cable; guitar>cello; guitar>folk; guitar>jazz; guitar>leather; guitar>plastic; guitar>radio; guitar>ratio; guitar>violin; guitarist>finger nail; guitarist>guitar; guitarist>jazz; guitarist>magazine; guitarist>singing; guitarist>website; gum>chewing gum; gun>sound; gun>weapon; gym>curriculum; gym>education; gym>gymnastics; gymnastics>ballet; gymnastics>dance; gymnastics>sport; habit>habitat; habitat>animal; habitat>plant; habitat>population; habitat>predator; habitat>species; hail>airport; hail>atmosphere; hail>ice; hail>rocket; hail>thunderstorm; hail>tornado; hail>water; hail>wind; hair>blade; hair>cat; hair>communication; hair>dirty; hair>dust; hair>ear; hair>euro; hair>eyebrow; hair>eyelash; hair>face; hair>fur; hair>gender; hair>haircut; hair>hand; hair>mammal; hair>milk; hair>punishment; hair>rain; hair>scissors; hair>sweat; hairdresser>barber; hairdresser>comb; hairdresser>electricity; hairdresser>hair; hairdresser>scissors; hairdresser>slavery; hairdresser>spirit; hall>apartment; hall>architecture; hall>building; hall>castle; hall>college; hall>community; hall>corridor; hall>community; hall>library; hall>office; hall>theatre; hall>university; ham>cholesterol; ham>meat; ham>protein; ham>sandwich; ham>steak; hammer>bone; hammer>force; hammer>muscle; hammer>speed; hammer>tool; hammer>war; hammer>weapon; hammer>wood; hand>animal; hand>bird; hand>dinosaur; hand>evolution; hand>finger; hand>foot; hand>grasp; hand>human; hand>mammal; hand>medicine; hand>monkey; hand>paw; hand>skeleton; hand>thumb; hand>wrist; handbag>coin; handbag>contraception; handbag>crocodile; handbag>mobile phone; handbag>security; handbag>strap; handbag>wallet; handkerchief>cotton; handkerchief>fashion; handkerchief>hand; handkerchief>handbag; handkerchief>hygiene; handkerchief>linen; handkerchief>pocket; handkerchief>silk; handle>gambling; handout>college; handout>gift; handout>homelessness; handout>welfare; handwriting>signature; happiness>biology; happiness>philosophy; happiness>pleasure; happiness>psychology; happiness>religion; happiness>symbol; happiness>well-being; happiness>virtue; harassment>discrimination; hardware>medal; harm>deicide; harm>disability; harm>law; harm>liberty; harm>pain; harm>pleasure; harm>skill; harm>well-being; harmony>jazz; harmony>melody; harmony>music; harmony>performance; harmony>tradition; harvest>agriculture; harvest>cereal; harvest>crop; harvest>energy; harvest>farm; harvest>fish; harvest>grain; harvest>season; harvest>timber; harvest>wine; hat>cotton; hat>face; hat>ribbon; hat>spring; hat>ski; hat>straw; hat>wool; hate>hated; hatred>anger; hatred>crime; hatred>disability; hatred>discrimination; hatred>emotion; hatred>gender; hatred>gossip; hatred>harassment; hatred>language; hatred>nationality; hatred>prejudice; hatred>religion; hatred>revenge; hatred>sex; hazard>accident; hazard>chemical; hazard>disaster; hazard>emergency; hazard>global warming; hazard>health; hazard>life; hazard>possibility; hazard>property; hazard>punishment; hazard>risk; hazard>volcano; head>brain; head>ear; head>eye; head>face; head>mouth; head>nose; head>taste; headache>anxiety; headache>boy; headache>cancer; headache>child; headache>child; headache>couple; headache>diary; headache>fever; headache>food; headache>head; headache>infection; headache>medication; headache>neck; headache>nerves; headache>pain; headache>stroke; headache>symptom; headache>water; headache>weather; headache>virus; heading>headline; heading>volleyball; headline>humour; headline>publisher; headquarters>corporation; headquarters>finance; headquarters>marketing; headquarters>organization; headquarters>turkey; health care>cancer; health care>clinic; health care>diagnosis; health care>disability; health care>disease; health care>donation; health care>health; health care>hospital; health care>illness; health care>insurance; health care>medicine; health care>nurse; health care>pharmacist; health care>pharmacy; health care>professional; health care>regulation; health care>surgery; health care>vaccination; health care>wheelchair; health>air; health>alcohol; health>biology; health>body; health>child; health>continent; health>country; health>disease; health>education; health>exercise; health>genetics; health>gender; health>health care; health>house; health>human; health>hygiene; health>illness; health>injury; health>literacy; health>manufacturing; health>medicine; health>nutrition; health>obesity; health>outbreak; health>pain; health>person; health>pharmacy; health>physics; health>psychology; health>research; health>safety; health>sleep; health>smoking; health>vaccination; health>water; health>well-being; health>world; heart>animal; heart>bird; heart>blood; heart>copper; heart>crab; heart>fat; heart>insect; heart>iron; heart>livestock; heart>lung; heart>mammal; heart>muscle; heart>protein; heart>reptile; heart>spider; heart>sugar; heart>vein; heart>chemistry; heart>energy; heart>engineering; heart>kilogram; heart>life; heart>physics; heat>steam; heat>sun; heat>temperature; heat>thermometer; heaven>angel; heaven>earth; heaven>faith; heaven>fiction; heaven>god; heaven>hell;

heaven>nature; heaven>paradise; heaven>prayer; heaven>science fiction; heaven>sin; heaven>sky; heaven>virtue; hedge>century; hedge>climate; hedge>count; hedge>fence; hedge>flower; hedge>garden; hedge>privacy; hedge>road; hedge>wildlife; heel>foot; heel>knee; heel>dimension; height>distance; height>genetics; height>length; height>mountain; height>nutrition; height>pie; height>statistics; height>width; heir>inheritance; helicopter>ambulance; helicopter>flight; helicopter>mechanic; helicopter>recreation; helicopter>tourism; helicopter>transport; hell>atmosphere; hell>cartoon; hell>death; hell>devil; hell>earth; hell>fantasy; hell>god; hell>heaven; hell>hypocrisy; hell>paradise; hell>punishment; hell>religion; hell>sin; hell>sky; hell>soul; hell>torture; helmet>arrow; helmet>bronze; helmet>cap; helmet>construction; helmet>iron; helmet>leather; helmet>mining; helmet>plastic; helmet>steel; helmet>sunglasses; helmet>sword; helmet>tank; helmet>tip; help>emergency; herb>bark; herb>berry; herb>flower; herb>food; herb>fruit; herb>leaf; herb>religion; herb>root; herb>seed; herb>spice; herb>tree; herb>vegetable; heritage>birth; heritage>inheritance; hero>archaeology; hero>biography; hero>civilization; hero>courage; hero>economics; hero>endurance; hero>fantasy; hero>film; hero>geography; hero>globalization; hero>protagonist; hero>quest; hero>warrior; hesitation>pause; hierarchy>animation; hierarchy>atom; hierarchy>authority; hierarchy>carbon; hierarchy>chest; hierarchy>colleague; hierarchy>complexity; hierarchy>concept; hierarchy>diagram; hierarchy>diamond; hierarchy>dimension; hierarchy>entity; hierarchy>god; hierarchy>government; hierarchy>hand; hierarchy>heir; hierarchy>hell; hierarchy>human; hierarchy>importance; hierarchy>individual; hierarchy>inheritance; hierarchy>learning; hierarchy>matter; hierarchy>music; hierarchy>nation; hierarchy>nature; hierarchy>object; hierarchy>organization; hierarchy>parent; hierarchy>structure; hierarchy>supervisor; hierarchy>system; hierarchy>triangle; hierarchy>university; hierarchy>verb; hill>cheese; hill>erosion; hill>geology; hill>golf; hill>mountain; hill>soil; hill>volcano; hip>birth; hip>fashion; hip>joint; hip>shoulder; historian>archaeology; historian>economics; historian>narrative; historian>philosophy; historian>politics; historian>psychology; historian>seminar; history>archaeology; history>art; history>communication; history>continent; history>credibility; history>culture; history>decade; history>economics; history>evidence; history>experience; history>fantasy; history>gender; history>geography; history>historian; history>imagination; history>information; history>integrity; history>legend; history>memory; history>narrative; history>philosophy; history>poetry; history>politics; history>poverty; history>propaganda; history>reason; history>science; history>theory; hobby>air conditioning; hobby>amateur; hobby>art; hobby>balcony; hobby>book; hobby>climbing; hobby>comic; hobby>cooking; hobby>dancing; hobby>digestion; hobby>enthusiasm; hobby>fire; hobby>fishing; hobby>garden; hobby>gardener; hobby>gardening; hobby>heating; hobby>hill; hobby>house; hobby>journalism; hobby>label; hobby>landscape; hobby>leisure; hobby>literature; hobby>magazine; hobby>newspaper; hobby>park; hobby>photography; hobby>pottery; hobby>professional; hobby>recreation; hobby>robot; hobby>singing; hobby>tool; hobby>tourism; hobby>trail; hobby>vocabulary; hockey>ball; hockey>disability; hockey>ice hockey; hockey>sport; hockey>tennis; hold>grasp; hold>opening; holiday>faith; holiday>religion; home>apartment; home>city; home>cooking; home>country; home>emotion; home>family; home>habitat; home>hat; home>homelessness; home>household; home>institution; home>prison; home>residence; home>safety; home>suburb; home>town; homelessness>airport; homelessness>bus; homelessness>café; homelessness>college; homelessness>disability; homelessness>disaster; homelessness>dissertation; homelessness>earthquake; homelessness>hotel; homelessness>hypocrisy; homelessness>litter; homelessness>male; homelessness>park; homelessness>poverty; homelessness>prison; homelessness>running; homelessness>tent; homelessness>unemployment; homelessness>van; homelessness>war; homework>computer; homework>education; homework>essay; homework>learning; homework>research; homework>school; homework>student; homework>teacher; homework>teaching; homework>writing; honesty>fair; honesty>integrity; honesty>lie; honesty>loyalty; honesty>proverb; honesty>sincerity; honesty>truth; honey>bee; honey>beer; honey>bread; honey>cooking; honey>cotton; honey>crystal; honey>density; honey>dust; honey>food; honey>glass; honey>ladder; honey>milk; honey>pollution; honey>solution; honey>sugar; honey>symbol; honey>tea; honey>turkey; honey>water; honey>vitamin; honeymoon>pleasure; honeymoon>wedding; honour>cash; honour>celebrity; honour>conscience; honour>crime; honour>culture; honour>dignity; honour>family; honour>frontier; honour>gang; honour>government; honour>individual; honour>integrity; honour>law; honour>love; honour>lyrics; honour>medal; honour>nation; honour>privilege; honour>property; honour>rape; honour>reputation; honour>revenge; honour>school; honour>shame; honour>society; honour>stereotype; honour>turkey; honour>virtue; hope>disappointment; hope>fantasy; hope>fear; hope>heaven; hope>optimism; hope>psychology; horizon>circle; horizon>communication; horizon>dawn; horizon>earth; horizon>landscape; horizon>radio; horizon>sky; horizon>storey; horn>saddle; horn>telephone; horse>advertising; horse>animal; horse>ankle; horse>cello; horse>cereal; horse>concept; horse>donkey; horse>extinction; horse>family; horse>farm; horse>gene; horse>genetics; horse>heel; horse>instinct; horse>mammal; horse>pony; horse>prison; horse>reptile; horse>saddle; horse>stable; horse>vaccination; horse>water; horse>violin; horse>wrist; hospital>ambulance; hospital>business; hospital>campus; hospital>cathedral; hospital>clinic; hospital>diagnosis; hospital>disease; hospital>grammar; hospital>health; hospital>health care; hospital>hospitality; hospital>hostel; hospital>hotel; hospital>injury; hospital>mosque; hospital>nurse; hospital>partnership; hospital>patient; hospital>surgeon; hospital>surgery; hospital>entertainment; host>hospitality; host>presenter; hostage>crime; hostage>employer; hostage>government; hostage>metaphor; hostage>police officer; hostage>terrorism; hostage>turkey; hostel>carnival; hostel>castle; hostel>climbing; hostel>hostel; hostility>aggression; hostility>anger; hostility>denial; hostility>synonym; hotel>air conditioning; hotel>cave; hotel>definite article; hotel>hostel; hotel>investor; hotel>resort; hotel>telephone; hotel>tourism; hotel>turkey; hour>century; hour>clock; hour>energy; hour>minute; hour>opera; hour>public transport; hour>second; hour>speed; hour>side; hour>tide; hour>wage; house>architect; house>architecture; house>basement; house>bathroom; house>bedroom; house>brick; house>building; house>comfort; house>concrete; house>construction; house>dining room; house>door; house>earthquake; house>economics; house>family; house>fireplace; house>hall; house>home; house>household; house>human; house>kitchen; house>lead; house>library; house>living room; house>loft; house>office; house>pet; house>privacy; house>prosperity; house>shower; house>staircase; house>technology; house>television; house>toilet; house>weather; house>wildlife; house>>window; house>wood; house>workshop; household>disability; household>employment; household>family; household>government; household>home; household>homework; household>income; household>inheritance; household>living room; household>meal; housewife>career; housewife>cooking; housewife>economist; housewife>employment; housewife>factory; housewife>family; housewife>farming; housewife>fruit; housewife>grain; housewife>home; housewife>homework; housewife>household; housewife>nutrition; housewife>rice; housewife>sewing; housewife>vegetable; housewife>volunteer; housing>home; housing>home; hug>affection; hug>arm; hug>child; hug>dog; hug>doll; hug>friendship; hug>greeting; hug>hip; hug>kiss; hug>love; hug>sympathy; hug>teenager; human rights>abortion; human rights>belief; human rights>capitalism; human rights>child; human rights>climate change; human rights>concept; human rights>contraception; human rights>discrimination; human rights>education; human rights>justice; human rights>peace; human rights>religion; human rights>right; human rights>slavery; human rights>socialism; human rights>treaty; human rights>violence; human rights>woman; human rights>worship; human>adult; human>agriculture; human>aircraft; human>archaeology; human>art; human>artificial intelligence; human>belief; human>boy; human>bureaucracy; human>buyer; human>childhood; human>city; human>civilization; human>climate change; human>clothing; human>comedy; human>commodity; human>communication; human>competition; human>consciousness; human>construction; human>continent; human>cooking; human>crime; human>culture; human>democracy; human>digestion; human>discipline; human>discussion; human>drama; human>dream; human>duty; human>earnings; human>earring; human>earth; human>economics; human>empire; human>entertainment; human>envy; human>evolution; human>exercise; human>existence; human>family; human>female; human>fire; human>gene; human>genetics; human>girl; human>global warming; human>globalization; human>god; human>government; human>hair; human>happiness; human>hate; human>health; human>hierarchy; human>humanity; human>hunting; human>idea; human>incentive; human>information; human>jealousy; human>language; human>law; human>literature; human>logic; human>love; human>male; human>mammal; human>man; human>manufacturing; human>market; human>marriage; human>mind; human>mobile phone; human>motivation; human>narrative; human>nation; human>obesity; human>painting; human>perception; human>philosopher; human>philosophy; human>pleasure; human>politics; human>pollution; human>pottery; human>privilege; human>psychology; human>question; human>racism; human>reason; human>reasoning; human>religion; human>reproduction; human>revolution; human>ritual; human>science; human>self-awareness; human>seller; human>sense; human>sleep; human>society; human>soldier; human>soul; human>space; human>species; human>spirit; human>suffering; human>technology; human>thought; human>tool; human>trade; human>tragedy; human>transport; human>tribe; human>wealth; human>vegetarian; human>violence; human>woman; human>humility>god; humility>heaven; humility>pride; humility>strategy; humility>truth; humility>virtue; humility>wisdom; humour>ambiguity; humour>amusement; humour>comedy; humour>contradiction; humour>culture; humour>education; humour>intelligence; humour>irony; humour>laughter; humour>metaphor; humour>paradox; humour>psychology; humour>reality; humour>smile; hunger>disease; hunger>famine; hunger>food; hunger>starvation; hunting>arrow; hunting>bat; hunting>bear; hunting>bone; hunting>deer; hunting>environmentalist; hunting>extinction; hunting>fish; hunting>fishing; hunting>fox; hunting>fur; hunting>habit; hunting>infrastructure; hunting>jungle; hunting>language; hunting>lead; hunting>lion; hunting>mammal; hunting>pig; hunting>predator; hunting>prison; hunting>protein; hunting>rabbit; hunting>recreation; hunting>regulation; hunting>ritual; hunting>trophy; hunting>webcam; hunting>wildlife; hunting>wolf; husband>authority; husband>crime; husband>divorce; husband>father; husband>male; husband>marriage; husband>profession; husband>society; husband>spouse; husband>wedding; husband>wife; hygiene>acre; hygiene>bandage; hygiene>cap; hygiene>cold; hygiene>cooking; hygiene>culture; hygiene>cutlery; hygiene>flu; hygiene>gender; hygiene>hairstylist; hygiene>health; hygiene>perfume; hygiene>scent; hygiene>shower; hygiene>soap; hygiene>toilet; hyphen>adjective; hyphen>adverb; hyphen>comma; hyphen>dash; hyphen>punctuation; hyphen>recreation; hyphen>surname; hyphen>syllable; hyphen>word; hypocrisy>irony; hypocrisy>paradox; hypothesis>calculation; hypothesis>concept; hypothesis>entity; hypothesis>experience; hypothesis>experiment; hypothesis>explanation; hypothesis>laboratory; hypothesis>logic; hypothesis>nature; hypothesis>observation; hypothesis>phenomenon; hypothesis>prediction; hypothesis>proposition; hypothesis>reasoning; hypothesis>research; hypothesis>theory; hypothesis>virtue; ice cream>chocolate; ice cream>cream; ice cream>crystal; ice cream>dessert; ice cream>juice; ice cream>milk; ice cream>pension; ice cream>protein; ice cream>sugar; ice cream>yogurt; ice hockey>cricket; ice hockey>ice skating; ice hockey>recreation; ice hockey>rubber; ice skating>emperor; ice skating>helmet; ice skating>ice; ice skating>ice hockey; ice skating>steel; ice>air; ice>atom; ice>carbon dioxide; ice>cloud; ice>crystal; ice>density; ice>dirt; ice>dust; ice>fog; ice>frost; ice>hall; ice>heat; ice>ice hockey; ice>ice skating; ice>lake; ice>liquid; ice>metal; ice>oxygen; ice>road; ice>soil; ice>thunderstorm; ice>truck; ice>water; ice>>window; iceberg>density; iceberg>erosion; iceberg>satellite; icon>angel; icon>miracle; icon>paper; icon>peasant; icon>saint; icon>symbol; idea>concept; idea>creativity; idea>evolution; idea>experiment; idea>fish; idea>gene; idea>horse; idea>human; idea>image; idea>imagination; idea>liberty; idea>man; idea>memory; idea>perception; idea>property; idea>psychologist; idea>selection; idea>understanding; idea>woman; identity>entity; idiom>cliché; idiom>collocation; idiom>definition; idiom>verb; idiot>democracy; idiot>government; idiot>ignorance; idiot>stupidity; idol>worship; ignorance>awareness; ignorance>innocence; ignorance>knowledge; ignorance>literacy; ignorance>stupidity; ignorance>wisdom; illusion>perception; illusion>sense; illusion>sound; illustration>diagram; illustration>drawing; illustration>image; illustration>ink; illustration>painting; illustration>pen; illustration>photograph; illustration>video game; image>animation; image>camera; image>dimension; image>drawing; image>film; image>graphics; image>map; image>mirror; image>painting; image>paper; image>person; image>photograph; image>photography; image>statue; image>telescope; image>video; imagination>art; imagination>belief; imagination>creativity; imagination>fantasy; imagination>fear; imagination>fiction; imagination>hypothesis; imagination>idea; imagination>language; imagination>mind; imagination>myth; imagination>narrative; imagination>perception; imagination>pleasure; imagination>probability; imagination>psychology; imagination>science fiction; imagination>suffering; imagination>truth; imitation>animal; imitation>curiosity; imitation>empathy; imitation>experiment; imitation>information; imitation>intelligence; imitation>intention; imitation>learning; imitation>purpose; imitation>rat; imitation>reproduction; imitation>science; imitation>scientist; imitation>species; immigrant>immigration; immigration>arrest; immigration>citizen; immigration>climate; immigration>constitition; immigration>education; immigration>employment; immigration>human rights; immigration>poverty; immigration>racism; immigration>refugee; immigration>retirement; immigration>terrorism; immigration>tourist; immigration>war; immigration>welfare; immune system>acid; immune system>animal; immune system>antibiotic; immune system>bacteria; immune system>blood; immune system>cancer; immune system>cough; immune system>disease; immune system>evolution; immune system>fever; immune system>gene; immune system>infant; immune system>infection; immune system>insect; immune system>irritation; immune system>leaf; immune system>lung; immune system>mammal; immune system>medicine; immune system>obesity; immune system>plant; immune system>pregnancy; immune system>skin; immune system>stomach; immune system>vaccination; immune system>vaccine; immune system>virus; immune system>yogurt; impatience>patience; implementation>bureaucracy; implementation>code; implementation>design; implementation>plan; implementation>policy; implementation>specification; implementation>specification; implementation>system; import>commodity; import>consumer; import>customs; import>export; import>income; import>manufacturer; import>price; import>trade; impossibility>contract; impossibility>necessity; imprisonment>liberty; incentive>competition; incentive>corporation; incentive>curiosity; incentive>employment; incentive>slavery; incentive>volunteer; inch>centimetre; inch>length; inch>metre; inch>millimetre; inch>yard; income>economics; income>education; income>peace; income>society; independence>authority; independence>country; independence>nation; independence>revolution; independence>statue; independence>violence; indication>sign; individual>biology; individual>consciousness; individual>gene; individual>independence; individual>law; individual>person; individual>philosophy; individual>selection; individual>statistics; individuality>individual; industry>agriculture; industry>carriage; industry>coal; industry>computer; industry>economy; industry>electricity; industry>finance; industry>manufacturing; industry>market; industry>pollution; industry>robot; industry>steel; infancy>infant; infant>adaptation; infant>brain; infant>health; infant>hospital; infant>human; infant>infection; infant>milk; infant>offspring; infant>pregnancy; infant>toddler; infection>antibiotic; infection>bacteria; infection>blood; infection>body; infection>disease; infection>fever;



infection>hygiene; infection>immune system; infection>joint; infection>mammal; infection>medicine; infection>symptom; infection>vaccination; infection>virus; infection>wound;  
infinite>adverb; infinite>clause; infinite>gerund; infinite>grammar; infinite>noun; infinite>verb; inflation>commodity; inflation>currency; inflation>demand;  
inflation>economics; inflation>economy; inflation>exchange rate; inflation>infrastructure; inflation>investment; inflation>ratio; inflation>recession; inflation>scarcity; inflation>stock;  
inflation>stock market; inflation>unemployment; information>bit; information>cd-rom; information>communication; information>complexity; information>concept; information>data;  
information>dna; information>education; information>energy; information>feedback; information>form; information>knowledge; information>message; information>perception;  
information>physics; information>prediction; information>proposition; information>relevance; information>sequence; information>system; information>thought;  
information>uncertainty; information>understanding; infrastructure>airline; infrastructure>ambulance; infrastructure>architect; infrastructure>architecture; infrastructure>bridge;  
infrastructure>bus; infrastructure>business; infrastructure>city; infrastructure>climate change; infrastructure>coal; infrastructure>college; infrastructure>commerce;  
infrastructure>communication; infrastructure>consent; infrastructure>contract; infrastructure>corporation; infrastructure>cost; infrastructure>earthquake; infrastructure>economy;  
infrastructure>electricity; infrastructure>energy; infrastructure>exchange; infrastructure>factory; infrastructure>ferry; infrastructure>government; infrastructure>health care;  
infrastructure>hospital; infrastructure>institution; infrastructure>library; infrastructure>manufacturing; infrastructure>market; infrastructure>mobile phone; infrastructure>museum;  
infrastructure>nation; infrastructure>noise; infrastructure>organization; infrastructure>ownership; infrastructure>park; infrastructure>police; infrastructure>port; infrastructure>poverty;  
infrastructure>primary school; infrastructure>public transport; infrastructure>radio; infrastructure>recreation; infrastructure>road; infrastructure>school; infrastructure>secondary  
school; infrastructure>society; infrastructure>software; infrastructure>storm; infrastructure>sustainability; infrastructure>telecommunications; infrastructure>telephone;  
infrastructure>television; infrastructure>traffic light; infrastructure>trail; infrastructure>tram; infrastructure>transport; infrastructure>tunnel; infrastructure>university;  
infrastructure>water; infrastructure>weapon; infrastructure>vehicle; infrastructure>wheel; ingredient>cooking; ingredient>law; ingredient>mixture; ingredient>recipe;  
inheritance>death; inheritance>debt; inheritance>god; inheritance>government; inheritance>individual; inheritance>myth; inheritance>northwest; inheritance>property;  
inheritance>sex; inheritance>turkey; initial>paragraph; initiative>referendum; injury>accident; injury>bruise; injury>skin; injury>suicide; injury>war; injury>violence; injury>wound;  
injustice>justice; ink>brush; ink>crystal; ink>design; ink>image; ink>liquid; ink>pen; ink>sustainability; ink>writing; innocence>child; innocence>crime; innocence>evil;  
innocence>experience; innocence>fiction; innocence>guilt; innocence>ignorance; innocence>sin; innocence>white; innovation>business; innovation>capitalism; innovation>carbon  
footprint; innovation>comfort; innovation>commerce; innovation>convenience; innovation>globalization; innovation>creativity; innovation>design; innovation>economics; innovation>education;  
innovation>efficiency; innovation>energy; innovation>engineering; innovation>globalization; innovation>government; innovation>hospital; innovation>idea; innovation>immigration;  
innovation>improvement; innovation>infrastructure; innovation>invention; innovation>manufacturing; innovation>market; innovation>material; innovation>productivity;  
innovation>regulation; innovation>research; innovation>society; innovation>technology; innovation>transportation; input>information; input>output; input>system; inquiry>analogy;  
inquiry>certainty; inquiry>curiosity; inquiry>diagnosis; inquiry>doubt; inquiry>hypothesis; inquiry>knowledge; inquiry>logic; inquiry>uncertainty; insect>adult; insect>agriculture;  
insect>animal; insect>ant; insect>bat; insect>bee; insect>bird; insect>blood; insect>butterfly; insect>carbon dioxide; insect>crab; insect>digestion; insect>evolution; insect>fat;  
insect>fly; insect>fruit; insect>genetics; insect>head; insect>honey; insect>human; insect>lung; insect>male; insect>mouth; insect>nutrition; insect>oxygen; insect>plant;  
insect>protein; insect>recycling; insect>robot; insect>sense; insect>silk; insect>species; insect>spider; insect>stomach; insect>wasp; insect>vein; insect>wheel; insecurity>risk;  
insecurity>security; insight>artificial intelligence; insight>brand; insight>cause; insight>consumer; insight>flucy; insight>marketing; insight>mind; insight>perception;  
insight>psychology; insight>sleep; insomnia>anxiety; insomnia>disease; insomnia>fear; insomnia>herb; insomnia>longevity; insomnia>pain; insomnia>sleep; insomnia>withdrawal;  
inspection>document; inspection>review; inspection>x-ray; inspector>captain; inspector>detective; inspector>fraud; inspector>police; inspector>police station; inspiration>invention;  
instinct>aggression; instinct>consciousness; instinct>learning; instinct>life; instinct>mammal; instinct>motivation; instinct>nest; instinct>psychology; instinct>sex; institute>research;  
institute>university; institution>art; institution>behaviour; institution>business; institution>capitalism; institution>cooperation; institution>corporation; institution>country;  
institution>court; institution>culture; institution>economics; institution>education; institution>factory; institution>family; institution>government; institution>health care;  
institution>hospital; institution>individual; institution>industry; institution>institute; institution>judge; institution>language; institution>law; institution>marriage; institution>medicine;  
institution>money; institution>nation; institution>police; institution>prison; institution>religion; institution>research; institution>role; institution>school; institution>society;  
institution>university; instruction>teacher; instructor>professor; instructor>teacher; instrument>tool; insult>rudeness; insurance>advertising; insurance>aircraft; insurance>airport;  
insurance>basketball; insurance>business; insurance>cash; insurance>community; insurance>contract; insurance>credit card; insurance>death; insurance>decade;  
insurance>disability; insurance>disaster; insurance>discrimination; insurance>earthquake; insurance>education; insurance>family; insurance>fire; insurance>funeral;  
insurance>gambling; insurance>gender; insurance>golf; insurance>horse; insurance>investment; insurance>loan; insurance>market; insurance>millennium; insurance>money;  
insurance>pension; insurance>politics; insurance>probability; insurance>profession; insurance>regulation; insurance>religion; insurance>retirement; insurance>revolution;  
insurance>saving; insurance>speculation; insurance>statistics; insurance>tax; insurance>terrorism; insurance>theft; insurance>tornado; insurance>unemployment;  
insurance>wage; insurance>wealth; insurance>weather; insurance>volcano; integration>integrity; integrity>accuracy; integrity>bias; integrity>business; integrity>consciousness;  
integrity>doubt; integrity>honesty; integrity>hypocrisy; integrity>hypothesis; integrity>medicine; integrity>mind; integrity>politics; integrity>virtue; intellect>human;  
intellect>intellectual; intellect>intelligence; intellect>knowledge; intellect>logic; intellect>mind; intellect>profession; intellect>psychology; intellect>reality; intellect>truth;  
intellect>understanding; intellectual>art; intellectual>authority; intellectual>capitalism; intellectual>critic; intellectual>culture; intellectual>engineering; intellectual>essay;  
intellectual>evolution; intellectual>genetics; intellectual>intelligence; intellectual>journalist; intellectual>literacy; intellectual>literature; intellectual>medicine; intellectual>philosophy;  
intellectual>profession; intellectual>reason; intellectual>scholar; intellectual>socialism; intellectual>technology; intellectual>thought; intelligence>artificial intelligence;  
intelligence>bird; intelligence>communication; intelligence>definition; intelligence>dolphin; intelligence>elephant; intelligence>human; intelligence>knowledge; intelligence>learning;  
intelligence>mammal; intelligence>memory; intelligence>music; intelligence>parrot; intelligence>plan; intelligence>goal; intelligence>psychology; intelligence>reason; intelligence>science fiction;  
intelligence>scientist; intelligence>self-awareness; intelligence>understanding; intent>intention; intention>goal; intention>pyramid; interaction>feedback; interaction>gene;  
interaction>medication; interaction>medicine; interaction>physics; interaction>protein; interaction>science; interaction>statistics; interest>asset; interest>fee; interest>inflation;  
interest>money; interest>return; interest>spreadsheet; interest>theft; intervention>invasion; interview>question; intruder>intrusion; intrusion>earth; intrusion>erosion; intrusion>glass;  
intrusion>planet; intrusion>volcano; invasion>aggression; invasion>aircraft; invasion>archaeology; invasion>border; invasion>castle; invasion>city; invasion>coast; invasion>combat;  
invasion>communication; invasion>economics; invasion>entity; invasion>gold; invasion>government; invasion>infrastructure; invasion>navy; invasion>parachute; invasion>peace;  
invasion>philosophy; invasion>port; invasion>propaganda; invasion>radio; invasion>religion; invasion>river; invasion>silver; invasion>slavery; invasion>starvation;  
invasion>strategy; invasion>tank; invasion>technology; invasion>town; invasion>transportation; invasion>treaty; invasion>tribute; invasion>war; invasion>warrior;  
invention>architecture; invention>art; invention>creativity; invention>design; invention>experiment; invention>flight; invention>machine; invention>parachute; invention>photography;  
invention>train; inventor>invention; investigation>detective; investigation>disease; investigation>research; investigator>detective; investigator>inspector; investment>asset;  
investment>bank; investment>economics; investment>economy; investment>factory; investment>finance; investment>gambling; investment>inflation; investment>insurance;  
investment>money; investment>risk; investment>speculation; investment>stock; investor>antique; investor>art; investor>business; investor>commodity; investor>currency;  
investor>investment; investor>stock; iron>agriculture; iron>aluminium; iron>bean; iron>bread; iron>building; iron>carbon; iron>carbon dioxide; iron>carbon monoxide; iron>copper;  
iron>dna; iron>earth; iron>fish; iron>heart; iron>liver; iron>mammal; iron>metal; iron>mining; iron>oxygen; iron>paint; iron>road; iron>sand; iron>ship; iron>steel; iron>water;  
ironing>cotton; ironing>linen; ironing>seal; ironing>washing machine; ironing>wool; ironing>wrinkle; ironing>coward; ironing>genius; ironing>hypocrisy; ironing>intelligence; ironing>legend;  
irony>love; irony>paradox; irritation>alcohol; irritation>biology; irritation>empathy; irritation>immune system; irritation>mammal; irritation>monkey; irritation>obesity; irritation>pain;  
irritation>perception; irritation>rash; irritation>sense; irritation>tobacco; island>concrete; island>continent; island>coral; island>desert; island>geology; island>sand; island>tourism;  
island>waste; island>water; island>volcano; isolation>solitude; issue>child; issue>journal; issue>magazine; issue>journal; issue>newspaper; jacket>baseball; jacket>chemistry; jacket>denim;  
jacket>fashion; jacket>garment; jacket>hunting; jacket>raincoat; jacket>raincoat; jacket>scientist; jacket>sleeve; jacket>student; jacket>sweater; jacket>waist; jacket>prison;  
january>february; january>march; january>oak; january>summer; january>winter; january>year; jar>bottle; jargon>bit; jargon>capitalism; jargon>philosopher; jargon>slang;  
jaw>bone; jaw>fish; jaw>mouth; jaw>tooth; jazz>arrangement; jazz>harmony; jazz>melody; jazz>piano; jazz>singer; jazz>slang; jazz>slavery; jazz>violin; jealousy>adult;  
jealousy>anger; jealousy>competition; jealousy>disgust; jealousy>emotion; jealousy>empathy; jealousy>envy; jealousy>feeling; jealousy>psychologist; jealousy>resentment;  
jealousy>self-esteem; jealousy>synonym; jealousy>thought; jeans>copper; jeans>denim; jeans>teenager; jeans>trousers; jeans>turkey; jewel>jewellery; jewellery>archaeologist;  
jewellery>archaeology; jewellery>bone; jewellery>bracelet; jewellery>bronze; jewellery>coin; jewellery>copper; jewellery>culture; jewellery>diamond; jewellery>earring;  
jewellery>feather; jewellery>glass; jewellery>gold; jewellery>marriage; jewellery>metal; jewellery>necklace; jewellery>perfume; jewellery>plastic; jewellery>silver; jewellery>turkey;  
jewellery>wood; jogging>running; joint>bone; joint>elbow; joint>infection; joint>neck; joint>wrist; joke>clown; joke>comedy; joke>disability; joke>elephant; joke>humour;  
joke>irony; joke>laughter; joke>literature; joke>nonsense; joke>paradox; joke>poetry; joke>suffix; joke>ritual; joke>rhythm; joke>sex; joke>science; joke>smile; joke>stereotype; journal>diary;  
journal>journalism; journal>journalist; journal>magazine; journal>newspaper; journal>parliament; journalism>accuracy; journalism>democracy; journalism>disability;  
journalism>discrimination; journalism>newspaper; journalism>religion; journalism>truth; journalism>war; journalist>combat; journalist>critic; journalist>information;  
journalist>interview; journalist>journalism; journalist>microphone; journalist>murder; journalist>news; journalist>photography; journalist>research; journalist>turkey; journey>travel;  
joy>happiness; judge>black; judge>chancellor; judge>court; judge>jury; judge>law; judge>lawyer; judge>magistrate; judge>politics; judge>profession; judge>professor;  
judge>prosecutor; judge>red; judge>referee; judge>solicitor; jug>breast; jug>kettle; jug>prison; juice>bacteria; juice>café; juice>fruit; juice>liquid; juice>meat; juice>soft drink;  
juice>stroke; july>month; july>summer; july>winter; july>year; jump>assault; jumper>sweater; june>day; june>december; june>month; june>rose; june>summer; june>winter;  
june>year; jungle>rainforest; jungle>wilderness; junk food>chewing gum; junk food>dessert; junk food>fast food; junk food>fat; junk food>pizza; junk food>salt; junk food>slang; junk  
food>sugar; junk food>waste; junk>scrap; junk>waste; junk>woman; jury>abortion; jury>assault; jury>bribery; jury>competition; jury>court; jury>crime; jury>evidence; jury>judge;  
jury>justice; jury>murder; jury>prosecutor; jury>slavery; jury>terrorism; jury>trial; jury>verdict; justice>bias; justice>contract; justice>crime; justice>culture; justice>destiny;  
justice>disability; justice>discrimination; justice>gender; justice>generosity; justice>history; justice>human rights; justice>injustice; justice>judge; justice>jury; justice>law;  
justice>lawyer; justice>mercy; justice>nation; justice>need; justice>politician; justice>prison; justice>property; justice>punishment; justice>religion; justice>respect; justice>revenge;  
justice>slavery; justice>theft; justice>wealth; justice>verdict; kangaroo>animal; kangaroo>carbon dioxide; kangaroo>extinction; kangaroo>mammal; kangaroo>mouse;  
kangaroo>predator; kangaroo>protein; kangaroo>reptile; kangaroo>species; kangaroo>windscreen; keeper>goalkeeper; kettle>salmon; kettle>whistle; key>chart; kick>foot;  
kick>knee; kick>child; kidney>adaptation; kidney>adjective; kidney>bean; kidney>bird; kidney>blood; kidney>carbon dioxide; kidney>consciousness; kidney>cooking; kidney>fish;  
kidney>liver; kidney>mammal; kidney>protein; kidney>reptile; kidney>rib; kidney>water; killer>murderer; killing>death; kilo>kilogram; kilogram>carbon; kilogram>credit card;  
kilogram>density; kilogram>energy; kilogram>force; kilogram>gold; kilogram>gram; kilogram>lead; kilogram>litre; kilogram>metre; kilogram>millimetre; kilogram>ozone;  
kilogram>pressure; kilogram>uncertainty; kilogram>weight; kilometre>cycling; kilometre>length; kilometre>metre; kilometre>mile; kilometre>millimetre; kilometre>slang;  
kilometre>yard; kind>kindness; kindness>disposition; kindness>emotion; kindness>empathy; kindness>envy; kindness>generosity; kindness>love; kindness>sympathy;  
kindness>virtue; kingdom>realm; kiss>adolescent; kiss>affection; kiss>cholesterol; kiss>friendship; kiss>greeting; kiss>hug; kiss>lip; kiss>love; kiss>luck; kiss>muscle; kiss>peace;  
kiss>prayer; kiss>respect; kiss>temple; kiss>tongue; kiss>wedding; kit>collection; kit>component; kit>fox; kit>kitten; kit>rabbit; kitchen>aircraft; kitchen>apartment; kitchen>architect;  
kitchen>art; kitchen>basement; kitchen>bathroom; kitchen>brass; kitchen>bronze; kitchen>camping; kitchen>castle; kitchen>catering; kitchen>chimney; kitchen>climate;  
kitchen>coal; kitchen>cooking; kitchen>copper; kitchen>cupboard; kitchen>dining room; kitchen>dishwasher; kitchen>electricity; kitchen>factory; kitchen>fast food; kitchen>fire;  
kitchen>fireplace; kitchen>flour; kitchen>hall; kitchen>hospital; kitchen>hotel; kitchen>industrialization; kitchen>iron; kitchen>laboratory; kitchen>laundry; kitchen>mansion;  
kitchen>oven; kitchen>pottery; kitchen>pump; kitchen>railway; kitchen>restaurant; kitchen>rice; kitchen>ship; kitchen>sink; kitchen>slavery; kitchen>smoke; kitchen>society;  
kitchen>staircase; kitchen>steak; kitchen>triangle; kitchen>wood; kitchen>yacht; kite>aircraft; kite>art; kite>ballet; kite>beach; kite>cotton; kite>electricity; kite>force; kite>lightning;  
kite>linen; kite>observation; kite>paper; kite>recreation; kite>rope; kite>silk; kitten>birth; kitten>cat; kitten>eye; kitten>female; kitten>male; kitten>puppy; knees>baby; knees>bone;  
knee>joint; knee>surgery; knee>thigh; knee>x-ray; knife>blade; knife>bread; knife>bronze; knife>carbon; knife>cooking; knife>copper; knife>cutlery; knife>fish; knife>fork;  
knife>iron; knife>leather; knife>meat; knife>pillow; knife>plastic; knife>produce; knife>ritual; knife>rubber; knife>spoon; knife>steel; knife>surgery; knife>sword; knife>wood;  
knob>mountain; knot>chain; knot>climbing; knot>donkey; knot>joke; knot>puzzle; knot>rope; knot>strap; knowledge>belief; knowledge>certainty; knowledge>chair;

knowledge>content; knowledge>data; knowledge>debate; knowledge>description; knowledge>education; knowledge>evidence; knowledge>experience; knowledge>experiment; knowledge>fact; knowledge>geography; knowledge>history; knowledge>information; knowledge>inquiry; knowledge>intelligence; knowledge>intensity; knowledge>learning; knowledge>measurement; knowledge>narrative; knowledge>observation; knowledge>perception; knowledge>philosopher; knowledge>philosophy; knowledge>reasoning; knowledge>science; knowledge>space; knowledge>truth; knowledge>wisdom; knuckle>finger; knuckle>finger; knuckle>hand; knuckle>joint; lab>laboratory; label>banana; label>black; label>cloth; label>image; label>ink; label>metal; label>paper; label>plastic; label>recycling; label>retail; label>sandwich; label>sewing; label>shirt; label>wine; laboratory>biology; laboratory>chemistry; laboratory>computer; laboratory>data; laboratory>emergency; laboratory>experiment; laboratory>explosive; laboratory>government; laboratory>industry; laboratory>laser; laboratory>machinery; laboratory>measurement; laboratory>physics; laboratory>poison; laboratory>psychology; laboratory>research; laboratory>safety; laboratory>school; laboratory>science; laboratory>scientist; laboratory>ship; laboratory>thermometer; laboratory>university; laboratory>workshop; labour>employment; labour>workforce; ladder>aluminium; ladder>bruiise; ladder>honey; ladder>roof; ladder>rope; ladder>wall; ladder>wood; lady>woman; lake>acre; lake>bay; lake>climate; lake>continent; lake>crocodile; lake>density; lake>ecology; lake>erosion; lake>fish; lake>force; lake>friction; lake>geography; lake>industry; lake>mineral water; lake>pond; lake>recreation; lake>river; lake>salt; lake>sand; lake>stream; lake>temperature; lake>turkey; lake>volcano; lake>country; lake>earth; land>landing; land>landscape; land>nation; land>aircraft; land>airport; land>animal; land>concrete; land>flight; land>parachute; land>runway; land>weather; land>weight; land>wind; landlady>landlord; landlord>apartment; landlord>contract; landlord>female; landlord>house; landlord>property; landmark>building; landmark>exploration; landmark>geography; landmark>monument; landmark>structure; landmark>tourist; landscape>beauty; landscape>coast; landscape>desert; landscape>earth; landscape>forest; landscape>geography; landscape>island; landscape>lake; landscape>lighting; landscape>mountain; landscape>perception; landscape>philosophy; landscape>sea; landscape>sky; landscape>theatre; landscape>weather; landscape>vegetation; lane>ambulance; lane>motorway; lane>road; lane>rush hour; lane>traffic light; language>adjective; language>argument; language>bee; language>code; language>communication; language>consonant; language>culture; language>dialect; language>entertainment; language>evolution; language>first language; language>globalization; language>grammar; language>human; language>idiom; language>information; language>mind; language>music; language>noun; language>phrase; language>prefix; language>speech; language>suffix; language>syllable; language>system; language>verb; language>vocabulary; language>word; language>vowel; lap>computer; lap>knee; lap>laptop; laptop>cd-rom; laptop>computer; laptop>floor; laptop>hard drive; laptop>theft; laser>atom; laser>cd player; laser>cd-rom; laser>chemistry; laser>crystal; laser>energy; laser>feedback; laser>light; laser>physics; laser>radiation; laser>razor; laser>surgery; laser>technology; laser>thermometer; laugh>laughter; laughter>art; laughter>brain; laughter>consciousness; laughter>emotion; laughter>happiness; laughter>imagination; laughter>joke; laughter>life; laughter>literature; laughter>memory; laughter>philosopher; laughter>relief; laughter>sensibility; laughter>twin; launch>lunch; laundry>clothing; laundry>fat; laundry>ironing; laundry>linen; laundry>pink; laundry>soap; laundry>washing machine; laundry>water; laundry>wool; law>authority; law>bureaucracy; law>chancellor; law>civilization; law>climate change; law>consideration; law>constitution; law>economics; law>human rights; law>jury; law>justice; law>lawyer; law>magistrate; law>necessity; law>negligence; law>nuisance; law>people; law>philosophy; law>politics; law>pollution; law>precedent; law>prison; law>property; law>slavery; law>society; law>system; law>vote; law>audience; law>baseball; law>cricket; law>drought; law>garden; law>gardening; law>golf; law>grass; law>habitat; law>herb; law>hockey; law>landscape; law>park; law>province; law>sheep; law>smog; law>tennis; law>town; law>water; law>weed; lawyer>business; lawyer>consideration; lawyer>court; lawyer>deception; lawyer>fee; lawyer>government; lawyer>journalist; lawyer>judge; lawyer>jury; lawyer>justice; lawyer>law; lawyer>politician; lawyer>profession; lawyer>prosecutor; lawyer>solicitor; laziness>economist; laziness>golf; laziness>motivation; laziness>poet; laziness>poverty; laziness>predator; laziness>psychology; laziness>rat; laziness>scientist; lead>brain; lead>brass; lead>bullet; lead>carbon dioxide; lead>copper; lead>density; lead>iron; lead>metal; lead>plumber; lead>recycling; lead>silver; lead>tin; lead>x-ray; leader>leadership; leadership>animal; leadership>career; leadership>charisma; leadership>coaching; leadership>competition; leadership>creativity; leadership>criticism; leadership>earth; leadership>effectiveness; leadership>efficiency; leadership>empathy; leadership>feedback; leadership>gene; leadership>goal; leadership>hero; leadership>intelligence; leadership>leader; leadership>performance; leadership>politics; leadership>praise; leadership>priest; leadership>skill; leadership>strategy; leadership>structure; leadership>task; leadership>team; leadership>validity; leadership>violence; leaf>animal; leaf>atmosphere; leaf>autumn; leaf>bean; leaf>bulb; leaf>carbon dioxide; leaf>evolution; leaf>food; leaf>grass; leaf>green; leaf>human; leaf>insect; leaf>leaflet; leaf>light; leaf>oak; leaf>onion; leaf>pea; leaf>plant; leaf>poison; leaf>protein; leaf>red; leaf>rose; leaf>species; leaf>sunlight; leaf>water; leaf>yellow; leaflet>leaf; leak>air conditioning; leak>brake; leak>construction; leak>explosion; leak>explosive; leak>fluid; leak>gas; leak>heart; leak>liquid; leak>plumber; leak>pressure; leak>soap; leak>sound; leak>steam; leak>temperature; leak>water; leak>vehicle; leak>weight; learner>learning; learning>bird; learning>chess; learning>dance; learning>education; learning>energy; learning>infection; learning>information; learning>injury; learning>knowledge; learning>mammal; learning>motivation; learning>observation; learning>owl; learning>predator; learning>preference; learning>psychology; learning>recollection; learning>skill; learning>teaching; learning>training; leather>aluminium; leather>cattle; leather>cow; leather>crocodile; leather>deer; leather>drum; leather>fruit; leather>ironing; leather>kangaroo; leather>leaf; leather>luggage; leather>plastic; leather>protein; leather>root; leather>saddle; leather>salmon; leather>salt; leather>shark; leather>snake; leather>wood; lecture>college; lecture>communication; lecture>computer; lecture>discussion; lecture>education; lecture>lesson; lecture>library; lecture>museum; lecture>observation; lecture>presentation; lecture>school; lecture>seminar; lecture>statistics; lecture>teacher; lecture>tutor; lecture>university; lecture>workshop; lecturer>lecture; lecturer>professor; lecturer>teacher; lecturer>university; leek>bulb; leek>garlic; leek>onion; leek>potato; leek>vegetable; leg>animal; leg>ankle; leg>bone; leg>column; leg>engine; leg>foot; leg>force; leg>insect; leg>knee; leg>muscle; leg>nerve; leg>skin; leg>legume; legend>donkey; legend>miracle; legend>narrative; legend>rumour; legend>saint; legislation>government; legislation>referendum; leisure>business; leisure>education; leisure>employment; leisure>hobby; leisure>pleasure; leisure>recreation; leisure>sleep; leisure>time; leisure>workaholic; lemon>acid; lemon>ice cream; lemon>immune system; lemon>juice; lemon>lemonade; lemon>soft drink; lemonade>drink; lemonade>garlic; lemonade>lemon; length>area; length>astronomy; length>dimension; length>distance; length>height; length>inch; length>kilometer; length>measurement; length>mile; length>yard; length>volume; leopard>animal; leopard>bear; leopard>bird; leopard>desert; leopard>fish; leopard>fox; leopard>gene; leopard>insect; leopard>lion; leopard>mammal; leopard>monkey; leopard>rainforest; leopard>reptile; leopard>tiger; leopard>turkey; leopard>woodland; lesson>classroom; lesson>education; lesson>entertainment; lesson>learning; lesson>student; lesson>teacher; lesson>textbook; letter>literature; lettuce>copper; lettuce>iron; lettuce>liver; lettuce>produce; lettuce>synonym; lettuce>weed; level>height; level>lie; liberty>authority; liberty>constitution; liberty>democracy; liberty>god; liberty>government; liberty>law; liberty>logic; liberty>nature; liberty>politics; liberty>property; liberty>religion; liberty>slavery; liberty>socialism; liberty>system; library>architecture; library>bookcase; library>document; library>dvd; library>history; library>information; library>monument; library>paper; library>parliament; library>silks; library>steel; library>turkey; lid>eyelid; lie>blame; lie>crime; lie>deception; lie>denial; lie>devil; lie>honesty; lie>irony; lie>paradox; lie>philosopher; lie>politeness; lie>propaganda; lie>punctuation; lie>revelation; lie>society; lie>truth; lie>wolf; life>adaptation; life>animal; life>bacteria; life>biology; life>bird; life>carbon; life>coal; life>consciousness; life>death; life>dna; life>earth; life>ecology; life>evolution; life>existence; life>extinction; life>fish; life>gene; life>genetics; life>geology; life>habit; life>hypothesis; life>insect; life>mammal; life>materialist; life>organization; life>oxygen; life>philosophy; life>plant; life>poison; life>predator; life>protein; life>relation; life>religion; life>reproduction; life>reptile; life>science; life>simulation; life>soul; life>species; life>spider; life>system; life>virus; light>city; light>cloud; light>earth; light>fire; light>glasses; light>heat; light>laser; light>matter; light>mirror; light>physics; light>radio; light>rainbow; light>sound; light>source; light>spectrum; light>sun; light>sunlight; light>telescope; light>temperature; light>time; light>wave; light>x-ray; lighter>cigarette; lighter>crystal; lighter>flame; lighter>match; lighting>angle; lighting>angle; lighting>angle; lighting>angle; lighting>ceiling; lighting>electronic; lighting>energy; lighting>fire; lighting>headache; lighting>inspection; lighting>light; lighting>logo; lighting>metal; lighting>mirror; lighting>motorist; lighting>nightclub; lighting>office; lighting>pedestrian; lighting>picture; lighting>plant; lighting>red; lighting>shadow; lighting>torch; lighting>wall; lighting>white; lightning>aircraft; lightning>cloud; lightning>electronics; lightning>energy; lightning>zone; lightning>planet; lightning>probability; lightning>radio; lightning>thunder; lightning>thunderstorm; lightning>tornado; lightning>volcano; lightning>x-ray; likelihood>commerce; likelihood>odds; likelihood>probability; likelihood>statistic; likelihood>statistics; limitation>experiment; line>airline; line>border; line>able; line>chain; line>drawing; line>melody; line>railway; line>rope; line>writing; linen>cotton; linen>handkerchief; linen>inch; linen>leather; linen>shirt; linen>wood; link>chain; link>sausage; lion>animal; lion>circus; lion>crocodile; lion>culture; lion>deer; lion>dvd; lion>elephant; lion>forest; lion>giraffe; lion>leopard; lion>mammal; lion>rainforest; lion>snake; lion>tick; lion>tiger; lion>turkey; lion>zebra; lion>zoo; lip>beak; lip>bird; lip>kiss; lip>mammal; lip>mouth; lip>nose; lip>skin; lip>smile; liquid>acid; liquid>alcohol; liquid>blood; liquid>carbon dioxide; liquid>density; liquid>engine; liquid>fluid; liquid>gas; liquid>ink; liquid>life; liquid>litre; liquid>milk; liquid>mixture; liquid>oil; liquid>paint; liquid>pressure; liquid>pump; liquid>rocket; liquid>soap; liquid>solution; liquid>temperature; liquid>thermometer; liquid>water; liquid>volume; literacy>elite; literacy>fluency; literacy>text; literacy>text message; literacy>thought; literacy>vocabulary; literacy>writing; literature>constitution; literature>dialogue; literature>drama; literature>essay; literature>fantasy; literature>festival; literature>fiction; literature>film; literature>history; literature>journalism; literature>law; literature>logic; literature>metaphor; literature>music; literature>nature; literature>novel; literature>opera; literature>paradigm; literature>performance; literature>philosophy; literature>poem; literature>poetry; literature>religion; literature>rhyme; literature>science fiction; literature>soap opera; literature>theatre; literature>tragedy; literature>writing; litre>bin; litre>fluid; litre>fuel; litre>kilogram; litre>metre; litre>paint; litre>water; litter>volume; litter>fish; litter>mosquito; litter>recycling; litter>toothbrush; litter>waste; litter>wildlife; liver>anger; liver>beef; liver>blood; liver>bruise; liver>calf; liver>cancer; liver>chicken; liver>cholesterol; liver>copper; liver>digestion; liver>eagle; liver>food; liver>friction; liver>infection; liver>iron; liver>protein; liver>sausage; liver>sheep; liver>skin; liver>snake; living room>bookcase; living room>chair; living room>fireplace; living room>furniture; living room>home; living room>hotel; living room>house; living room>room; living>life; load>cargo; loaf>bread; loaf>rectangle; loan>asset; loan>bank; loan>contract; loan>credit card; loan>debt; loan>finance; loan>house; loan>interest; loan>money; loan>overdraft; loan>subsidy; loathing>hatred; loft>artist; loft>building; loft>choir; loft>floor; loft>industry; loft>roof; loft>sail; loft>storey; loft>studio; log>blog; log>diary; logic>argument; logic>artificial intelligence; logic>law; logic>philosophy; logic>proposition; logic>reason; logic>truth; logic>validity; logo>agriculture; logo>alphabet; logo>brand; logo>coin; logo>poster; logo>slogan; loneliness>anger; loneliness>art; loneliness>attention; loneliness>cancer; loneliness>cat; loneliness>child; loneliness>childhood; loneliness>cholesterol; loneliness>community; loneliness>creativity; loneliness>divorce; loneliness>dna; loneliness>emotion; loneliness>emotion; loneliness>exercise; loneliness>friendship; loneliness>genetics; loneliness>grief; loneliness>health care; loneliness>hostility; loneliness>human; loneliness>learning; loneliness>love; loneliness>marriage; loneliness>memory; loneliness>musician; loneliness>nostalgia; loneliness>pet; loneliness>philosopher; loneliness>poet; loneliness>psychology; loneliness>rabbit; loneliness>religion; loneliness>research; loneliness>resentment; loneliness>shyness; loneliness>sleep; loneliness>solitude; loneliness>spouse; loneliness>stroke; loneliness>suicide; loneliness>therapy; loneliness>time; longevity>exercise; longevity>gender; longevity>genetics; longevity>health care; longevity>hygiene; longevity>industrialization; longevity>nutrition; longevity>obesity; longevity>peasant; longevity>science fiction; lorry>truck; loss>cost; loss>grief; loss>price; lottery>gambling; lottery>insurance; lottery>probability; lounge>hotel; lounge>living room; love>abortion; love>adult; love>affair; love>affection; love>biology; love>divorce; love>emotion; love>essence; love>explanation; love>friendship; love>god; love>hate; love>heart; love>hunger; love>immune system; love>kindness; love>mammal; love>marriage; love>neighbourhood; love>philosophy; love>proverb; love>psychologist; love>psychology; love>religion; love>socialist; love>thirst; love>verb; love>virtue; love>love; loyalty>brand; loyalty>country; loyalty>death; loyalty>friendship; loyalty>game; loyalty>person; loyalty>pet; loyalty>philosophy; loyalty>respect; loyalty>virtue; luck>baseball; luck>belief; luck>chess; luck>dice; luck>faith; luck>gambling; luck>game; luck>god; luck>intention; luck>lottery; luck>money; luck>philosopher; luck>probability; luck>risk; luck>ritual; luck>sacrifice; luck>witch; luggage>baggage; lunch>casserole; lunch>cheese; lunch>club; lunch>coconut; lunch>coffee; lunch>curry; lunch>dinner; lunch>fish; lunch>juice; lunch>meal; lunch>meat; lunch>milk; lunch>pizza; lunch>potato; lunch>restaurant; lunch>rice; lunch>yogurt; lunchtime>lunch; lung>animal; lung>bacteria; lung>bird; lung>breath; lung>carbon dioxide; lung>exercise; lung>fish; lung>frog; lung>heart; lung>infection; lung>mammal; lung>muscle; lung>oxygen; lung>reptile; lung>snake; lung>vein; lung>virus; lyrics>drama; lyrics>melody; lyrics>music; lyrics>opera; lyrics>poem; lyrics>poetry; lyrics>pronoun; lyrics>song; machine>brake; machine>clutch; machine>computer; machine>digestion; machine>electronics; machine>energy; machine>engine; machine>engineering; machine>force; machine>friction; machine>fuel; machine>gear; machine>goal; machine>heat; machine>industrialization; machine>logic; machine>muscle; machine>physics; machine>pump; machine>radio; machine>robot; machine>rope; machine>sail; machine>system; machine>technology; machine>television; machine>tool; machine>watch; machine>vehicle; machine>wheel; machine>wing; madam>inspector; madam>mr; madam>police; madam>sir; magazine>advertising; magazine>mail; magazine>newspaper; magazine>publication; magic>spirit; magic>yoga; magistrate>advocate; magistrate>arrest; magistrate>brain; magistrate>court; magistrate>election; magistrate>human rights; magistrate>judge; magistrate>law; magistrate>market; magistrate>profession; magistrate>prosecutor; magistrate>riot; magistrate>solicitor; magistrate>title; mail>balloon; mail>bank; mail>bicycle; mail>biography; mail>customs; mail>document; mail>email; mail>envelope; mail>island; mail>jargon; mail>literature; mail>mail; mail>literature; mail>mail; mail>newspaper; mail>post office; mail>postcard; mail>restaurant; mail>retail; mail>rocket; mail>signature; mail>social networking; mail>telephone; mail>terrorism; mail>university; mail>wedding; mail>writing; mail>x-ray; main course>dessert; main course>meal; main

course>meat; main course>salad; main course>soup; main course>stomach; main course>vegetarian; majority>politics; male>ant; male>bee; male>bird; male>boy; male>female; male>flower; male>gender; male>genetics; male>gentleman; male>human; male>insect; male>iron; male>mammal; male>man; male>plant; male>reproduction; male>sex; male>worm; mammal>ant; mammal>bacteria; mammal>bat; mammal>bear; mammal>bird; mammal>camel; mammal>cat; mammal>cattle; mammal>deer; mammal>dinosaur; mammal>dna; mammal>dog; mammal>donkey; mammal>elephant; mammal>giraffe; mammal>goat; mammal>hair; mammal>heart; mammal>horse; mammal>human; mammal>insect; mammal>intelligence; mammal>jaw; mammal>milk; mammal>mouse; mammal>neck; mammal>pig; mammal>polar bear; mammal>protein; mammal>rabbit; mammal>rat; mammal>reptile; mammal>sheep; mammal>skin; mammal>snake; mammal>species; mammal>stomach; mammal>zebra; man>adult; man>beauty; man>bone; man>boy; man>costume; man>culture; man>dna; man>education; man>family; man>father; man>female; man>friend; man>genetics; man>human; man>illness; man>infrastructure; man>king; man>literature; man>male; man>mammal; man>muscle; man>shoulder; man>society; man>song; man>woman; management>business; management>college; management>commerce; management>corporation; management>finance; management>goal; management>innovation; management>leadership; management>marketing; management>organization; management>ownership; management>plan; management>planning; management>psychology; management>science; management>textbook; manager>management; mango>agriculture; mango>banana; mango>blood; mango>fibre; mango>flower; mango>frost; mango>fruit; mango>ice cream; mango>leaf; mango>pie; mango>roundabout; mango>salt; mango>seed; mango>silk; mango>supermarket; mango>tree; mango>wedding; mankind>human; mansion>castle; mansion>city; mansion>house; mansion>library; mansion>office; mansion>palace; mansion>railway; mansion>revolution; mansion>village; manual>hand; manufacturer>manufacturing; manufacturing>agriculture; manufacturing>aircraft; manufacturing>consumer; manufacturing>engineering; manufacturing>industry; manufacturing>infrastructure; manufacturing>machine; manufacturing>management; manufacturing>ownership; manufacturing>regulation; manufacturing>retailer; manufacturing>tool; map>border; map>dna; map>geography; map>measurement; map>rain; map>ratio; map>region; map>sign; map>space; map>sphere; map>survey; map>temperature; marathon>aspirin; marathon>immune system; marathon>liver; marathon>muscle; marathon>protein; march>autumn; march>day; march>friday; march>month; march>november; march>september; march>soil; march>sun; march>turkey; march>year; mark>football; market>auction; market>buyer; market>consumer; market>corporation; market>democracy; market>infrastructure; market>institution; market>money; market>monopoly; market>ownership; market>price; market>referee; market>seller; market>stock market; market>structure; market>subsidy; market>supermarket; market>system; market>tax; market>trade; market>workforce; marketing>advertising; marketing>brand; marketing>business; marketing>manufacturing; marketing>organization; marriage>community; marriage>contract; marriage>divorce; marriage>economics; marriage>emotion; marriage>family; marriage>fear; marriage>gender; marriage>human rights; marriage>husband; marriage>hypothesis; marriage>institution; marriage>mother; marriage>organization; marriage>parent; marriage>prejudice; marriage>priest; marriage>promise; marriage>referendum; marriage>right; marriage>sin; marriage>spouse; marriage>suicide; marriage>tribe; marriage>turkey; marriage>wedding; marriage>wife; marriage>vocation; mask>ballet; mask>baseball; mask>brass; mask>carnival; mask>cartoon; mask>ceremony; mask>community; mask>copper; mask>court; mask>devil; mask>disguise; mask>drama; mask>entertainment; mask>face; mask>folk; mask>god; mask>gold; mask>hero; mask>ice hockey; mask>leather; mask>museum; mask>performance; mask>procession; mask>prosecution; mask>protest; mask>ritual; mask>shield; mask>theatre; mask>torture; mask>trophy; mask>tv; mask>witness; massacre>disaster; massacre>sack; master>miss; masterpiece>painting; mat>bark; mat>bathroom; mat>building; mat>car; mat>carpet; mat>coconut; mat>commerce; mat>disc jockey; mat>floor; mat>furniture; mat>greeting; mat>kitchen; mat>pain; mat>pollution; mat>rubber; mat>spart; mat>straw; mat>structure; mat>surface; mat>towel; mat>type; mat>vehicle; match>aircraft; match>chemistry; match>fire; match>firework; match>friction; match>glass; match>gun; match>lead; match>lighter; match>monopoly; match>nickname; match>paper; match>rope; match>rubber; match>slang; match>sugar; match>tool; match>wood; material>building; material>clothing; material>computer; material>construction; material>cotton; material>manufacturing; material>matter; material>steel; materialism>consciousness; materialism>energy; materialism>existence; materialism>force; materialism>institution; materialism>matter; materialism>mind; materialism>philosophy; materialism>reality; materialist>materialism; matter>atom; matter>chemistry; matter>density; matter>earth; matter>energy; matter>fluid; matter>formula; matter>gas; matter>lightning; matter>liquid; matter>materialism; matter>physics; matter>pressure; matter>science fiction; matter>space; matter>telescope; matter>temperature; matter>time; matter>water; matter>wave; matter>volume; may>autumn; may>drum; may>month; may>november; may>summer; may>sunday; may>turkey; may>week; may>year; mayor>magistrate; mayor>officer; mayor>parliament; mayor>prime minister; mayor>referendum; meal>beach; meal>beer; meal>birthday; meal>breakfast; meal>cheese; meal>dessert; meal>dinner; meal>fish; meal>food; meal>forest; meal>fruit; meal>home; meal>lawn; meal>lunch; meal>main course; meal>nutrition; meal>park; meal>picnic; meal>restaurant; meal>salad; meal>sandwich; meal>supper; meal>tea; meal>wedding; meaning>reference; meaning>truth; measure>measurement; measurement>carbon; measurement>commerce; measurement>day; measurement>fraud; measurement>gram; measurement>hour; measurement>inch; measurement>kilogram; measurement>kilometre; measurement>law; measurement>length; measurement>light; measurement>metre; measurement>mile; measurement>month; measurement>ruler; measurement>science; measurement>second; measurement>spectrum; measurement>statistics; measurement>technology; measurement>temperature; measurement>time; measurement>ton; measurement>uncertainty; measurement>week; measurement>yard; measurement>year; meat>agriculture; meat>antibiotic; meat>bacteria; meat>barbecue; meat>beef; meat>body; meat>breed; meat>camel; meat>carbon dioxide; meat>cattle; meat>chicken; meat>cholesterol; meat>cooking; meat>crocodile; meat>deer; meat>disease; meat>dolphin; meat>evolution; meat>fat; meat>flesh; meat>food; meat>gene; meat>gun; meat>ham; meat>herb; meat>hygiene; meat>insect; meat>iron; meat>liver; meat>mammal; meat>muscle; meat>oak; meat>oxygen; meat>pain; meat>pork; meat>protein; meat>salt; meat>sandwich; meat>sausage; meat>sheep; meat>smoke; meat>species; meat>spice; meat>steak; meat>sugar; meat>supermarket; meat>whale; meat>wood; meat>zebra; mechanic>air conditioning; mechanic>brake; mechanic>customer; mechanic>electricity; mechanic>engine; mechanic>tank; mechanic>technician; mechanism>machine; medal>brass; medal>bronze; medal>coal; medal>copper; medal>gold; medal>glass; medal>iron; medal>lead; medal>paper; medal>plastic; medal>portrait; medal>relief; medal>sculpture; medal>silver; medal>soldier; medal>tin; medal>wood; medicine>amateur; medicine>antibiotic; medicine>aspirin; medicine>biology; medicine>clinic; medicine>diagnosis; medicine>dilemma; medicine>disease; medicine>ear; medicine>engineering; medicine>error; medicine>evolution; medicine>gene; medicine>genetics; medicine>health; medicine>health care; medicine>heart; medicine>honesty; medicine>illness; medicine>immune system; medicine>laboratory; medicine>literature; medicine>medication; medicine>nurse; medicine>philosophy; medicine>physics; medicine>poison; medicine>professional; medicine>psychology; medicine>pulse; medicine>side effect; medicine>snake; medicine>surgery; medicine>therapy; medicine>translation; medicine>tribe; medicine>truth; medicine>vaccination; medicine>vaccine; medicine>virus; melody>x-ray; melody>composer; melody>harmony; melody>jazz; melody>lyrics; melody>rhythm; melody>song; member>bridge; member>club; membership>member; memorial>cross; memorial>fountain; memorial>money; memorial>monument; memorial>scholarship; memorial>statue; memorial>war; memory>knowledge; memory>learning; memory>phenomenon; memory>psychology; memory>recollection; memory>sleep; memory>university; mention>quote; menu>advertising; menu>chef; menu>fast food; menu>hospital; menu>restaurant; mercy>forgiveness; mercy>justice; message>communication; message>email; message>idea; message>information; message>language; message>mail; message>radio; message>television; message>thought; metal>acid; metal>aluminium; metal>art; metal>bronze; metal>carbon; metal>chemistry; metal>commodity; metal>copper; metal>crystal; metal>currency; metal>density; metal>electricity; metal>gold; metal>heat; metal>iron; metal>lead; metal>painting; metal>silver; metal>steel; metaphor>analogy; metaphor>anger; metaphor>cliche; metaphor>description; metre>atom; metre>brass; metre>centimetre; metre>earth; metre>inch; metre>kilogram; metre>kilometre; metre>length; metre>light; metre>millimetre; metre>red; metre>second; metre>sphere; metre>yard; microphone>aircraft; microphone>computer; microphone>concert; microphone>insect; microphone>police; microphone>pressure; microphone>radio; microphone>sound; microphone>telephone; microphone>television; midday>noon; midnight>noon; midnight>day; midnight>season; midnight>sunrise; midnight>sunset; mile>emperor; mile>kilometre; mile>length; mile>metre; mile>province; mile>street; mile>yard; milk>acid; milk>agriculture; milk>bacteria; milk>beef; milk>bread; milk>butter; milk>camel; milk>cattle; milk>cheese; milk>cow; milk>cream; milk>digestion; milk>food; milk>goat; milk>gram; milk>honey; milk>horse; milk>human; milk>ice cream; milk>infant; milk>mammal; milk>nutrition; milk>paint; milk>poverty; milk>protein; milk>sheep; milk>spinach; milk>supermarket; milk>turkey; milk>water; milk>vegetarian; milk>whale; milk>yogurt; millennium>analogy; millennium>calendar; millennium>century; millennium>decade; millimetre>inch; millimetre>length; millimetre>metre; mind>adaptation; mind>art; mind>artificial intelligence; mind>attention; mind>awareness; mind>biology; mind>body; mind>brain; mind>choice; mind>communication; mind>computer; mind>concept; mind>conscience; mind>consciousness; mind>conversation; mind>dialogue; mind>drama; mind>economics; mind>emotion; mind>empathy; mind>engineering; mind>evolution; mind>family; mind>fear; mind>feeling; mind>gene; mind>happiness; mind>hate; mind>human; mind>idea; mind>image; mind>imagination; mind>intelligence; mind>intention; mind>knowledge; mind>language; mind>learning; mind>life; mind>love; mind>machine; mind>materialism; mind>matter; mind>memory; mind>narrative; mind>perception; mind>philosopher; mind>philosophy; mind>pie; mind>psychology; mind>reality; mind>reason; mind>religion; mind>ritual; mind>science; mind>skull; mind>software; mind>soul; mind>spirit; mind>symbol; mind>taste; mind>therapist; mind>thought; mind>tool; mind>well-being; mind>video game; mind>yoga; mine>mining; miner>coal; miner>mining; mineral>water>salt; mineral>water>tourism; mining>agriculture; mining>aluminium; mining>coal; mining>commodity; mining>copper; mining>earth; mining>erosion; mining>factory; mining>geology; mining>gold; mining>laboratory; mining>lead; mining>metal; mining>silver; mining>tin; mining>tool; mining>tram; mining>weapon; mining>vain; minority>infancy; minority>majority; minority>population; minute>angle; minute>astronomy; minute>earth; minute>hour; minute>second; minute>time; miracle>coincidence; miracle>donkey; miracle>dream; miracle>earthquake; miracle>evidence; miracle>faith; miracle>god; miracle>history; miracle>philosophy; miracle>saint; miracle>science; mirror>angle; mirror>astronomy; mirror>candle; mirror>human; mirror>illusion; mirror>laser; mirror>mammal; mirror>mechanic; mirror>paint; mirror>photography; mirror>portrait; mirror>sphere; mirror>telescope; mirror>vase; mirror>x-ray; misery>pain; misery>suffering; misery>unhappiness; miss>mrs; miss>servant; missile>bomb; missile>engine; missile>explosive; missile>gun; missile>heat; missile>laser; missile>radiation; mist>air; mist>fog; mist>water; mist>weather; misunderstanding>understanding; mix>mixture; mixture>air; mixture>blood; mixture>chemistry; mixture>cloud; mixture>concrete; mixture>dust; mixture>fog; mixture>gas; mixture>gold; mixture>ink; mixture>liquid; mixture>metal; mixture>milk; mixture>mist; mixture>mud; mixture>oxygen; mixture>plastic; mixture>silver; mixture>smoke; mixture>soil; mixture>solution; mixture>sugar; mixture>water; mobile phone>email; mobile>mobile phone; mode>fashion; model>role model; model>system; momentum>explosion; momentum>heat; momentum>kilogram; momentum>light; momentum>plural; momentum>pressure; momentum>rocket; momentum>second; momentum>sound; momentum>star; momentum>wave; monday>angel; monday>heaven; monday>saturday; monday>sunday; monday>thursday; monday>tuesday; money>art; money>bank; money>banking; money>cash; money>century; money>cheque; money>commodity; money>copper; money>country; money>currency; money>debt; money>diamond; money>economics; money>exchange rate; money>gold; money>government; money>inflation; money>liberty; money>loan; money>monopoly; money>payment; money>receipt; money>recession; money>rice; money>silver; money>stock; money>tax; money>unemployment; monkey>human; monkey>species; monopoly>canal; monopoly>company; monopoly>competition; monopoly>famine; monopoly>industry; monopoly>law; monopoly>market; monopoly>regulation; monster>cattle; monster>colour; monster>devil; monster>dinosaur; monster>energy; monster>eye; monster>fish; monster>forehead; monster>gene; monster>goat; monster>legend; monster>lion; monster>mouse; monster>oxygen; monster>planet; monster>siren; monster>skull; month>april; month>august; month>autumn; month>calendar; month>day; month>december; month>february; month>inclination; month>january; month>july; month>june; month>march; month>may; month>november; month>october; month>rose; month>second; month>september; month>star; month>summer; month>sun; month>time; month>weekday; month>wine; month>winter; month>year; monument>archaeologist; monument>building; monument>column; monument>memorial; monument>pyramid; monument>statue; monument>temple; monument>tomb; moonlight>daylight; moonlight>earth; moonlight>sun; moonlight>sunlight; morale>comfort; morale>courage; morale>duty; morale>fear; morale>motivation; morale>self-discipline; morale>willpower; morning>afternoon; morning>analogy; morning>breakfast; morning>dawn; morning>day; morning>evening; morning>gene; morning>midnight; morning>newspaper; morning>night; morning>noon; morning>sunrise; mortality>death; mortality>human; mosque>cathedral; mosque>clinic; mosque>column; mosque>column; mosque>gym; mosque>hazard; mosque>image; mosque>library; mosque>protest; mosque>pyramid; mosque>sunrise; mosque>sunset; mosque>symbol; mosque>vandalism; mosquito>adult; mosquito>animal; mosquito>bacteria; mosquito>bat; mosquito>carbon dioxide; mosquito>dawn; mosquito>disease; mosquito>fly; mosquito>head; mosquito>human; mosquito>immune system; mosquito>insect; mosquito>predator; mosquito>protein; mosquito>salmon; mosquito>sugar; mosquito>virus; mother>child; mother>emperor; mother>father; mother>human; mother>immune system; mother>mammal; mother>milk; mother>nutrition; mother>pregnancy; mother>stepmother; mother>wife; mother>woman; motivation>acceptance; motivation>addiction; motivation>curiosity; motivation>economics; motivation>family; motivation>feedback; motivation>food; motivation>friendship; motivation>game; motivation>goal; motivation>health; motivation>hunger; motivation>independence; motivation>love; motivation>money; motivation>observation; motivation>philosophy; motivation>psychologist; motivation>psychology; motivation>punishment; motivation>responsibility; motivation>safety; motivation>salary; motivation>saving; motivation>security; motivation>self-esteem; motivation>threat; motivation>tranquility; motivation>water; motive>motivation; motor>engine; mountain>agriculture; mountain>earth; mountain>erosion; mountain>hill; mountain>hobby; mountain>human; mountain>ice; mountain>landscape; mountain>mining; mountain>ocean; mountain>profession; mountain>river; mountain>snow; mountain>sport; mountain>tourism; mountain>volcano; mouse>animal; mouse>biology; mouse>cat;

mouse>disease; mouse>dog; mouse>earth; mouse>experiment; mouse>fox; mouse>gene; mouse>generation; mouse>ink; mouse>mammal; mouse>paper; mouse>pet; mouse>protein; mouse>psychology; mouse>rat; mouse>reptile; mouse>snake; mouse>species; mouse>stache>beard; mouse>stache>chin; mouse>stache>comb; mouse>stache>lip; mouse>stache>pencil; mouse>stache>scissors; mouse>immigration; movie>film; mud>brick; mud>concrete; mud>construction; mud>frog; mud>pig; mud>sand; mud>soil; mud>sun; mud>water; mud>worm; mug>coffee; mug>fluid; mug>pottery; mug>saucer; mug>tea; mum>mother; murder>animal; murder>assault; murder>corporation; murder>drug; murder>law; murder>precedent; murder>prostitute; murder>rape; murder>sin; murder>suicide; murder>war; murderer>murder; muscle>ancestor; muscle>bone; muscle>brain; muscle>cancer; muscle>cycling; muscle>density; muscle>dna; muscle>energy; muscle>fat; muscle>heart; muscle>infant; muscle>jaw; muscle>jogging; muscle>mammal; muscle>marathon; muscle>meat; muscle>motion; muscle>nerve; muscle>oxygen; muscle>protein; muscle>sense; muscle>skeleton; muscle>stomach; muscle>tongue; museum>agriculture; museum>aircraft; museum>animal; museum>archaeology; museum>astronomy; museum>computer; museum>craft; museum>drawing; museum>geology; museum>glass; museum>history; museum>illustration; museum>invention; museum>library; museum>musician; museum>painting; museum>philosophy; museum>physics; museum>propaganda; museum>science; museum>sculpture; museum>tank; museum>technology; museum>weapon; museum>zoo; mushroom>anxiety; mushroom>cooking; mushroom>copper; mushroom>disease; mushroom>food; mushroom>immune system; mushroom>species; mushroom>wool; music>addiction; music>archaeology; music>art; music>artificial intelligence; music>ballet; music>biology; music>choir; music>composer; music>computer; music>concert; music>cooperation; music>disc jockey; music>dissertation; music>emotion; music>entertainment; music>flute; music>globalization; music>guitar; music>harmony; music>intellect; music>jazz; music>language; music>lyrics; music>melody; music>memory; music>musician; music>opera; music>orchestra; music>performance; music>physics; music>piano; music>propaganda; music>psychology; music>radio; music>rhythm; music>singer; music>sound; music>speech; music>structure; music>television; music>time; music>university; music>violin; musical>music; musician>chapel; musician>composer; musician>jazz; musician>melody; musician>music; musician>poetry; musician>profession; musician>revolution; musician>singer; musician>singing; musician>society; mystery>secret; name>astronomy; name>dolphin; name>god; name>nickname; name>peace; name>science; name>slavery; name>spirit; name>war; nap>insomnia; nap>midday; nap>sleep; narrative>animation; narrative>communication; narrative>culture; narrative>data; narrative>description; narrative>drama; narrative>fiction; narrative>film; narrative>legend; narrative>literature; narrative>narrator; narrative>novel; narrative>openness; narrative>photography; narrative>poem; narrative>poetry; narrative>report; narrative>self; narrative>song; narrative>speech; narrative>television; narrative>theatre; narrative>validity; narrative>video; narrative>writing; nation>civilization; nation>community; nation>country; nation>culture; nation>government; nation>nationality; nation>society; nation>tribe; nationality>candidate; nationality>passport; nationality>politics; nationality>treaty; native speaker>first language; nature>adaptation; nature>air; nature>animal; nature>art; nature>atmosphere; nature>bacteria; nature>bay; nature>beauty; nature>biology; nature>bird; nature>bone; nature>civilization; nature>climate change; nature>cloud; nature>consciousness; nature>continent; nature>digestion; nature>dinosaur; nature>dna; nature>dust; nature>earth; nature>energy; nature>era; nature>evolution; nature>extinction; nature>fish; nature>fishing; nature>gas; nature>genetics; nature>geology; nature>habitat; nature>hill; nature>human; nature>hunting; nature>ice; nature>intrusion; nature>kilogram; nature>laboratory; nature>lake; nature>life; nature>lightning; nature>liquid; nature>mammal; nature>materialism; nature>matter; nature>mind; nature>mining; nature>mountain; nature>muscle; nature>observation; nature>ocean; nature>oxygen; nature>phenomenon; nature>photography; nature>physics; nature>planet; nature>plant; nature>poetry; nature>pollution; nature>pond; nature>recreation; nature>reproduction; nature>river; nature>science; nature>sea; nature>soil; nature>species; nature>star; nature>steam; nature>stream; nature>sun; nature>surface; nature>temperature; nature>tornado; nature>weather; nature>wilderness; nature>wildlife; nature>volcano; nature>zoo; nature>combat; navy>commander; navy>lake; navy>ocean; navy>port; navy>river; navy>sail; necessity>child; necessity>community; necessity>crime; necessity>law; necessity>organization; necessity>parent; neck>adjective; neck>body; neck>chin; neck>jaw; neck>pain; neck>throat; necklace>bracelet; necklace>bronze; necklace>chain; necklace>copper; necklace>coral; necklace>cross; necklace>diamond; necklace>gold; necklace>jewellery; necklace>laser; necklace>love; necklace>neck; necklace>shark; necklace>silver; necklace>tooth; necklace>vine; need>education; need>life; need>philosophy; need>politics; need>respect; need>self-esteem; neglect>abuse; neglect>negligence; neglect>self-esteem; negligence>carelessness; negligence>contract; negligence>harm; negligence>insurance; negligence>neglect; negligence>railway; negligence>train; negotiation>anger; negotiation>compromise; negotiation>contract; negotiation>conversation; negotiation>dialogue; negotiation>diplomacy; negotiation>disappointment; negotiation>emotion; negotiation>laboratory; negotiation>leadership; negotiation>pride; negotiation>sadness; negotiation>worry; neighbourhood>city; neighbourhood>community; neighbourhood>district; neighbourhood>fence; neighbourhood>household; neighbourhood>lawn; neighbourhood>security; neighbourhood>suburb; neighbourhood>town; neighbourhood>turkey; nerve>brain; nerve>muscle; nerve>pain; nerve>sense; nerve>skin; nerve>walking; nerves>nerve; nervousness>anxiety; nervousness>worry; nest>bird; nest>eagle; nest>fish; nest>grass; nest>habitat; nest>insect; nest>leaf; nest>life; nest>mammal; nest>reptile; nest>soil; nest>tree; nest>wasp; networking>network; news>consumer; news>information; news>mobile phone; news>opinion; news>radio; news>reporter; news>satellite; news>television; newsletter>club; newsletter>email; newsletter>interest; newsletter>marketing; newsletter>newspaper; newsletter>publication; newspaper>bias; newspaper>digital camera; newspaper>intellectual; newspaper>reporter; newspaper>weather forecast; nickname>ambiguity; nickname>ceremony; nickname>electrician; nickname>father; nickname>generation; nickname>genius; nickname>glasses; nickname>grandfather; nickname>home; nickname>intelligence; nickname>psychology; nickname>sir; nickname>surgeon; night>animal; night>carbon dioxide; night>day; night>earth; night>economy; night>energy; night>fear; night>ghost; night>horizon; night>life; night>lighting; night>lightning; night>midnight; night>moonlight; night>nightclub; night>nightlife; night>planet; night>jockey; night>police station; night>season; night>sleep; night>sun; night>time; night>water; nightclub>celebrity; nightclub>concert; nightclub>dance; nightclub>disc jockey; nightclub>disco; nightclub>disco; nightclub>bird; nightclub>nightlife; nightclub>techno; nightlife>adult; nightlife>concert; nightlife>entertainment; nightlife>murder; nightlife>music; nightlife>nightclub; nightlife>party; nightlife>restaurant; nightmare>anxiety; nightmare>brain; nightmare>dream; nightmare>fear; nightmare>fever; nightmare>harassment; nightmare>insomnia; nightmare>sadness; nightmare>sleep; nightmare>symptom; noise>data; noise>physics; noise>public transport; noise>radio; noise>silence; noise>sound; noise>television; noise>video; nomination>award; nomination>candidate; nomination>ceremony; nomination>debate; nomination>election; nomination>law; nomination>office; nonsense>contradiction; nonsense>grammar; nonsense>novelist; nonsense>poet; nonsense>poetry; nonsense>sense; nonsense>speech; nonsense>writing; noon>astronomy; noon>midnight; north>adjective; north>adverb; north>east; north>geography; north>map; north>noun; north>south; north>sun; north>west; northwest>southeast; nose>bat; nose>beak; nose>bird; nose>camel; nose>dog; nose>elephant; nose>mammal; nose>mouth; nose>nostril; nose>reptile; nostalgia>brain; nostalgia>happiness; nostalgia>music; nostalgia>sorrow; nostalgia>touch; nostril>bird; nostril>human; nostril>mammal; nostril>nose; note>alphabet; note>music; note>musician; note>sound; notebook>drawing; notice>allegation; noun>adjective; noun>clause; noun>description; noun>determiner; noun>earth; noun>plural; noun>prefix; noun>preposition; noun>pronoun; noun>punctuation; noun>reference; noun>sense; noun>sex; noun>suffix; noun>verb; novel>adventure; novel>art; novel>bestseller; novel>child; novel>comic; novel>communication; novel>creativity; novel>dedication; novel>essay; novel>fantasy; novel>fiction; novel>gender; novel>globalization; novel>history; novel>individual; novel>industrialization; novel>invention; novel>joke; novel>literacy; novel>literature; novel>narrative; novel>newspaper; novel>psychology; novel>quest; novel>racism; novel>reality; novel>review; novel>science fiction; novel>sensibility; novel>virtual reality; novelist>novel; novelty>art; novelty>creativity; novelty>innovation; novelty>marketing; november>autumn; november>day; november>february; november>homelessness; november>january; november>march; november>may; november>month; november>saturday; november>sunday; november>war; november>winter; november>year; nuisance>agriculture; nuisance>contempt; nuisance>law; number>addition; number>full stop; number>measurement; number>pyramid; number>rectangle; number>uncountable; nutrition>agriculture; nutrition>atmosphere; nutrition>bean; nutrition>berry; nutrition>blood; nutrition>bread; nutrition>butter; nutrition>cancer; nutrition>carbon; nutrition>cereal; nutrition>cheese; nutrition>chemical; nutrition>cholesterol; nutrition>confusion; nutrition>cooking; nutrition>copper; nutrition>diet; nutrition>digestion; nutrition>dna; nutrition>drought; nutrition>energy; nutrition>exercise; nutrition>experiment; nutrition>fast food; nutrition>fat; nutrition>flower; nutrition>food; nutrition>fruit; nutrition>garlic; nutrition>genetics; nutrition>grain; nutrition>grape; nutrition>herb; nutrition>human; nutrition>immune system; nutrition>iron; nutrition>junk food; nutrition>leaf; nutrition>life; nutrition>marathon; nutrition>meat; nutrition>metal; nutrition>milk; nutrition>obesity; nutrition>onion; nutrition>oxygen; nutrition>pasta; nutrition>potato; nutrition>protein; nutrition>psychology; nutrition>pump; nutrition>rice; nutrition>root; nutrition>science; nutrition>seed; nutrition>soil; nutrition>spice; nutrition>starvation; nutrition>sugar; nutrition>sunlight; nutrition>tea; nutrition>technology; nutrition>teaching; nutrition>water; nutrition>vegetable; nutrition>wheat; nutrition>wine; nutrition>vitamin; oak>bark; oak>butterfly; oak>cattle; oak>cheese; oak>commander; oak>endurance; oak>euro; oak>flower; oak>fruit; oak>furniture; oak>goat; oak>leaf; oak>leather; oak>plant; oak>sheep; oak>ship; oak>species; oak>symbol; oak>tree; oak>wine; oak>virtue; oak>wood; obesity>appetite; obesity>cancer; obesity>famine; obesity>gene; obesity>globalization; obesity>junk food; obesity>medication; obesity>pregnancy; obesity>stroke; object>entity; object>goal; obligation>politics; obligation>tradition; observation>camera; observation>clock; observation>data; observation>equal; observation>experiment; observation>human; observation>hypothesis; observation>information; observation>knowledge; observation>measurement; observation>nature; observation>paradox; observation>phenomenon; observation>sense; observation>system; observation>taste; observation>telescope; observation>thermometer; observation>x-ray; observe>observation; obstacle>architecture; obstacle>basketball; obstacle>cycling; obstacle>electricity; obstacle>football; obstacle>idiom; obstacle>infrastructure; obstacle>majority; obstacle>parliament; obstacle>public transport; obstacle>skill; obstacle>tennis; obstacle>volleyball; occupation>career; occupation>employment; occupation>profession; occupation>vocation; ocean>animal; ocean>bay; ocean>climate; ocean>coast; ocean>continent; ocean>dolphin; ocean>earth; ocean>evolution; ocean>fish; ocean>global warming; ocean>habitat; ocean>ice; ocean>life; ocean>planet; ocean>plant; ocean>rain; ocean>sea; ocean>ship; ocean>species; ocean>water; ocean>weather; ocean>whale; ocean>wind; october>april; october>autumn; october>blindness; october>day; october>health; october>lung; october>month; october>pizza; october>republic; october>sausage; october>turkey; october>year; odds>gambling; odds>probability; odds>proposition; odds>ratio; odds>statistics; office>adjective; office>building; office>business; office>desk; office>employment; office>factory; office>fashion; office>library; office>official; office>organization; office>project; office>software; office>warehouse; officer>authority; officer>police officer; official>adjective; official>authority; official>bureaucracy; official>ceremony; official>election; official>employment; official>government; official>inheritance; official>jargon; official>noun; official>office; official>organization; official>referee; official>school; official>signpost; official>title; official>war; offspring>adult; offspring>biology; offspring>bird; offspring>child; offspring>daughter; offspring>frog; offspring>parent; offspring>reproduction; offspring>son; oil>butter; oil>carbon; oil>heat; oil>light; oil>liquid; oil>oxygen; oil>olive; olive>autumn; olive>drought; olive>flower; olive>frost; olive>fruit; olive>garlic; olive>herb; olive>leaf; olive>lemon; olive>rabbit; olive>root; olive>soil; olive>species; olive>spice; olive>ton; olive>tree; olive>turkey; olive>umbrella; olive>weed; olive>vine; olive>wine; olive>winter; omelette>beef; omelette>butter; omelette>cheese; omelette>cholesterol; omelette>cream; omelette>fat; omelette>frying pan; omelette>garlic; omelette>ham; omelette>leek; omelette>lung; omelette>meat; omelette>milk; omelette>onion; omelette>pasta; omelette>pea; omelette>pork; omelette>potato; omelette>salt; omelette>tomato; omelette>vegetable; omission>argument; omission>lie; onion>bean; onion>carrot; onion>cat; onion>cattle; onion>cheese; onion>dog; onion>economist; onion>fat; onion>garlic; onion>gene; onion>spice; onion>vegetable; onion>vinegar; openness>community; opera>carival; opera>costume; opera>drama; opera>economics; opera>orchestra; opera>singing; opera>tradition; opera>tragedy; operation>surgery; opinion>argument; opinion>belief; opinion>business; opinion>committee; opinion>conscience; opinion>emotion; opinion>fact; opinion>jury; opinion>knowledge; opinion>philosophy; opinion>psychology; opinion>understanding; opportunity>crisis; opposite>volleyball; optimism>cancer; optimism>evolution; optimism>health; optimism>idiom; optimism>intelligence; optimism>philosophy; optimism>psychology; optimism>stroke; optimist>optimism; orchestra>ballet; orchestra>cello; orchestra>choir; orchestra>committee; orchestra>composer; orchestra>court; orchestra>dancing; orchestra>flute; orchestra>melody; orchestra>musician; orchestra>opera; orchestra>piano; orchestra>trumpet; orchestra>violin; ordeal>cruelty; ordeal>difficulty; ordeal>problem; ordeal>suffering; ordeal>torture; order>sequence; organ>magazine; organ>newsletter; organization>bureaucracy; organization>committee; organization>communication; organization>competition; organization>corporation; organization>ecology; organization>economics; organization>entity; organization>goal; organization>government; organization>human; organization>jury; organization>leadership; organization>management; organization>parliament; organization>partnership; organization>psychology; organization>pyramid; organization>structure; organization>university; origins>ancestor; origins>birth; origins>river; origins>time; ornament>fashion; orphan>adoption; orphan>suicide; outbreak>disease; output>computer; output>data; output>economics; output>engineering; output>feedback; output>information; output>sequence; output>system; oven>bread; oven>brick; oven>cake; oven>casserole; oven>coal; oven>computer; oven>concrete; oven>cooking; oven>dessert; oven>electricity; oven>heating; oven>meat; oven>pizza; oven>pottery; oven>steel; overdraft>adverb; overdraft>bank; overdraft>contract; overdraft>debit; overdraft>interest; overdraft>preposition; owl>adaptation; owl>beak; owl>bird; owl>dawn; owl>dinosaur; owl>ecology; owl>feather; owl>fish; owl>insect; owl>mammal; owl>species; owl>traffic; owl>wisdom; owner>ownership; ownership>asset; ownership>body; ownership>building; ownership>business; ownership>capitalism; ownership>consideration; ownership>controversy; ownership>debt; ownership>exchange; ownership>gift; ownership>idea; ownership>individual; ownership>innovation; ownership>invention; ownership>law; ownership>manufacturing; ownership>mind; ownership>money; ownership>person; ownership>property; ownership>slavery; ownership>theft; ownership>trade; oxygen>acid; oxygen>alcohol; oxygen>aluminium; oxygen>bacteria; oxygen>barbecue; oxygen>carbon; oxygen>carbon dioxide; oxygen>carbon monoxide; oxygen>centimetre; oxygen>climate change; oxygen>detective; oxygen>disease;

oxygen>dna; oxygen>earth; oxygen>explosion; oxygen>extinction; oxygen>fabric; oxygen>fat; oxygen>fire; oxygen>fuel; oxygen>gas; oxygen>immune system; oxygen>iron; oxygen>litre; oxygen>medicine; oxygen>ozone; oxygen>plastic; oxygen>protein; oxygen>rocket; oxygen>sand; oxygen>skeleton; oxygen>smog; oxygen>spider; oxygen>sport; oxygen>star; oxygen>steel; oxygen>sun; oxygen>tin; oxygen>water; oxygen>vein; oxygen>wood; ozone>aluminium; ozone>atom; ozone>carbon; ozone>carbon dioxide; ozone>climate change; ozone>concentration; ozone>earth; ozone>electricity; ozone>fruit; ozone>glass; ozone>gold; ozone>heart attack; ozone>immune system; ozone>iron; ozone>lead; ozone>lightning; ozone>liquid; ozone>metal; ozone>mining; ozone>oxygen; ozone>paper; ozone>salt; ozone>silver; ozone>water; ozone>vegetable; pace>peace; pack>backpack; pack>surname; pack>tourism; pact>contract; pact>treaty; page>web page; pain>anxiety; pain>cancer; pain>medication; pain>suffering; pain>toothache; pain>torture; paint>alcohol; paint>bacteria; paint>brush; paint>ink; paint>lead; paint>liquid; paint>milk; paint>oxygen; paint>sunshine; painter>painting; painting>art; painting>artist; painting>beauty; painting>brush; painting>concept; painting>copper; painting>craft; painting>design; painting>drawing; painting>essay; painting>face; painting>film; painting>glass; painting>illustration; painting>language; painting>leaf; painting>leather; painting>literature; painting>logo; painting>music; painting>nature; painting>oil; painting>paint; painting>paper; painting>pen; painting>philosophy; painting>photograph; painting>photography; painting>poetry; painting>politics; painting>portrait; painting>red; painting>rhythm; painting>sead; painting>solution; painting>straw; painting>surface; painting>symbol; painting>truth; painting>wall; painting>weather; painting>wood; painting>writing; pair>air; pair>cricket; pair>pear; pair>pressure; palace>castle; palace>chapel; palace>coconut; palace>hotel; palace>mansion; palace>museum; palace>parliament; palace>warehouse; pan>frying pan; pan>pancake; pan>prefix; pan>review; pancake>bacon; pancake>banana; pancake>breakfast; pancake>butter; pancake>cake; pancake>curry; pancake>fruit; pancake>frying pan; pancake>honey; pancake>jam; pancake>rice; pancake>synonym; pancake>yogurt; panel>jury; panic>anxiety; panic>architect; panic>cliff; panic>design; panic>emotion; panic>fear; panic>human; panic>marathon; panic>planning; panic>reason; panic>simulation; panic>symptom; pants>trousers; paper>art; paper>book; paper>cheque; paper>communication; paper>craft; paper>density; paper>diary; paper>drawing; paper>envelope; paper>grass; paper>handkerchief; paper>magazine; paper>newspaper; paper>notebook; paper>security; paper>straw; paper>wood; paper>writing; parachute>back; parachute>backpack; parachute>balloon; parachute>fair; parachute>landing; parachute>linen; parachute>probability; parachute>silks; parachute>weight; parade>carnival; parade>costume; parade>procession; parade>protest; paradigm>concept; paradigm>grammar; paradigm>photography; paradigm>physics; paradigm>science; paradigm>time; paradise>civilization; paradise>court; paradise>destiny; paradise>evil; paradise>evolution; paradise>garden; paradise>god; paradise>happiness; paradise>heaven; paradise>hell; paradise>park; paradise>peace; paradise>prosperity; paradise>space; paradise>time; paradise>yard; paradox>common sense; paradox>contradiction; paradox>dilemma; paradox>irony; paradox>language; paradox>logic; paradox>philosopher; paradox>surgery; paradox>validity; paragraph>email; paragraph>idea; paragraph>initial; paragraph>writing; parallel>astronomy; parcel>mail; parent>adjective; parent>adoption; parent>ancestor; parent>bird; parent>birth; parent>child; parent>family; parent>father; parent>gene; parent>generation; parent>infant; parent>male; parent>mother; parent>offspring; parent>pregnancy; parent>protein; parent>reproduction; parent>sibling; parent>verb; park>car park; park>government; park>grass; park>insect; park>landscape; park>mansion; park>picnic; park>playground; park>recreation; park>shade; park>turkey; park>woodland; parking>board game; parking>fee; parking>house; parking>road; parking>vehicle; parliament>appeal; parliament>citizen; parliament>democracy; parliament>finance; parliament>government; parliament>justice; parliament>legislation; parliament>prime minister; parliament>tax; parrot>animal; parrot>bacteria; parrot>beak; parrot>bird; parrot>competition; parrot>dinosaur; parrot>evolution; parrot>flower; parrot>food; parrot>fruit; parrot>hunting; parrot>poison; parrot>predator; parrot>rat; parrot>seed; parrot>species; parrot>tongue; parrot>manufacturer; particle>atom; particle>beach; particle>carbon dioxide; particle>crowd; particle>dust; particle>friction; particle>gas; particle>liquid; particle>matter; particle>nature; particle>people; particle>sand; particle>sphere; particle>star; particle>structure; particle>volume; partner>friend; partner>husband; partner>partnership; partner>wife; partnership>alliance; partnership>contract; partnership>corporation; partnership>corruption; partnership>education; partnership>entity; partnership>government; partnership>interest; partnership>monopoly; partnership>organization; partnership>school; party>anniversary; party>balloon; party>banana; party>birthday; party>business; party>cake; party>conversation; party>dancing; party>dessert; party>dinner; party>disc jockey; party>disco; party>drink; party>election; party>film; party>food; party>friendship; party>hospitality; party>main course; party>mask; party>music; party>opera; party>recreation; party>restaurant; party>sandwich; party>school; party>swimming pool; party>tea; party>techno; party>wedding; party>wine; passage>cave; passenger>bus; passenger>railway; passenger>ship; passenger>vehicle; passport>diplomacy; passport>government; passport>nationality; passport>receipt; passport>refugee; passport>travel; passport>treaty; password>back; password>graphics; password>image; password>memory; password>mobile phone; password>word; pasta>cereal; pasta>chef; pasta>cholesterol; pasta>cooking; pasta>export; pasta>flour; pasta>ham; pasta>machine; pasta>sausage; pastime>hobby; pastry>bakery; pastry>biscuit; pastry>bread; pastry>butter; pastry>chocolate; pastry>cream; pastry>flour; pastry>milk; pastry>pie; pastry>pie; pastry>sugar; patch>garden; patience>envy; patience>humility; patience>insect; patience>kindness; patience>pride; patience>time; patient>clinic; patient>dignity; patient>health care; patient>hospital; patient>human rights; patient>illness; patient>medication; patient>surgeon; patient>therapy; patient>treatment; pattern>carpet; pattern>column; pattern>crack; pattern>crystal; pattern>drawing; pattern>physics; pattern>pineapple; pattern>reflection; pattern>tree; pattern>wave; pause>leisure; paw>bear; paw>cat; paw>dog; paw>fox; paw>friction; paw>mammal; paw>rabbit; paw>tiger; paw>toe; pay>payment; pay>salary; pay>wage; payment>business; payment>cash; payment>cheque; payment>coin; payment>commerce; payment>credit card; payment>debit card; payment>money; payment>receipt; payment>stock; payment>trade; pc>postcard; pc>weather forecast; pea>bean; pea>butter; pea>climate; pea>famine; pea>fruit; pea>genetics; pea>noun; pea>plant; pea>plural; pea>protein; pea>salt; pea>seed; pea>snack; pea>soup; pea>tree; pea>turkey; pea>vegetable; pea>vine; pea>vitamin; peace>aggression; peace>cooperation; peace>diplomacy; peace>economics; peace>geography; peace>history; peace>hostility; peace>knowledge; peace>psychology; peace>respect; peace>silence; peace>strategy; peace>tranquility; peace>war; peace>violence; peach>acid; peach>cherry; peach>flower; peach>fruit; peach>leaf; peach>plant; peach>protein; peach>tree; peak>rush hour; peak>summit; peanut>beef; peanut>bird; peanut>cancer; peanut>cholesterol; peanut>cookie; peanut>cotton; peanut>flower; peanut>fruit; peanut>leaf; peanut>plant; peanut>plastic; peanut>rabbit; peanut>seed; peanut>spinach; pear>apple; pear>banana; pear>family; pear>flower; pear>furniture; pear>jam; pear>juice; pear>leaf; pear>olive; pear>plant; pear>rice; pear>species; pear>tobacco; pear>winter; pear>wood; peasant>farmer; peasant>literacy; peasant>slavery; pedestrian>obesity; pedestrian>public transport; pedestrian>road; pedestrian>running; pedestrian>traffic; pedestrian>trail; pedestrian>walking; pedestrian>vehicle; pedestrian>wheelchair; peer pressure>adolescent; peer pressure>alcohol; peer pressure>leadership; peer pressure>meeting; peer pressure>presentation; peer pressure>risk; peer pressure>tobacco; pen>ball; pen>brass; pen>drawing; pen>illustration; pen>ink; pen>inventor; pen>paper; pen>pencil; pen>status symbol; pen>steel; pen>writing; penalty>punishment; pence>penny; pencil>chemistry; pencil>drawing; pencil>lead; pencil>leather; pencil>pen; pencil>ruler; pencil>wood; pencil>writing; penguin>animal; penguin>bird; penguin>evolution; penguin>fish; penguin>habitat; penguin>iceberg; penguin>species; penguin>tail; penguin>wing; penny>commodity; penny>devil; penny>dollar; penny>euro; penny>silver; pension>asset; pension>government; pension>insurance; pension>investment; pension>lottery; pension>pensioner; pension>retirement; pension>stock; pension>tax; pensioner>pension; pensioner>retirement; pensioner>student; people>citizen; people>nation; people>nationality; people>person; people>republic; people>socialism; people>tribe; percentage>concentration; percentage>ratio; percentage>road; perception>brain; perception>ear; perception>ecology; perception>food; perception>hypothesis; perception>illusion; perception>information; perception>learning; perception>memory; perception>motivation; perception>paradigm; perception>psychology; perception>science; perception>sense; perception>simulation; perception>sound; perception>taste; perception>tongue; perfection>architect; perfection>architecture; perfection>art; perfection>artist; perfection>beauty; perfection>biology; perfection>chemistry; perfection>circle; perfection>civilization; perfection>concept; perfection>cooperation; perfection>creativity; perfection>crystal; perfection>education; perfection>existence; perfection>formula; perfection>god; perfection>grammar; perfection>harmony; perfection>health; perfection>heaven; perfection>idea; perfection>intellect; perfection>literature; perfection>matter; perfection>medicine; perfection>nature; perfection>number; perfection>painting; perfection>paradise; perfection>paradox; perfection>philosopher; perfection>philosophy; perfection>physics; perfection>plural; perfection>poet; perfection>poetry; perfection>proverb; perfection>ratio; perfection>reason; perfection>religion; perfection>science; perfection>sculpture; perfection>shape; perfection>side; perfection>skill; perfection>society; perfection>sphere; perfection>spirit; perfection>structure; perfection>sum; perfection>superlative; perfection>technology; perfection>temple; perfection>virtue; performance>actor; performance>audience; performance>ballet; performance>baseball; performance>comedian; performance>concert; performance>dance; performance>music; performance>opera; performance>rehearsal; performance>singing; performance>theatre; perfume>aluminium; perfume>apple; perfume>bark; perfume>bulb; perfume>chemistry; perfume>cherry; perfume>cola; perfume>corporation; perfume>dirty; perfume>flower; perfume>fruit; perfume>heat; perfume>herb; perfume>honey; perfume>lemon; perfume>light; perfume>make-up; perfume>oxygen; perfume>pine; perfume>plant; perfume>root; perfume>rose; perfume>science; perfume>seed; perfume>shampoo; perfume>spice; perfume>strawberry; perfume>tobacco; perfume>tomato; perfume>trade; perfume>wood; period>full stop; person>abortion; person>consciousness; person>estate; person>human; person>individual; person>law; person>liberty; person>nation; person>people; person>philosophy; person>slavery; person>personality>family; person>personality>self; person>personnel>employment; persuasion>advertising; persuasion>belief; persuasion>communication; persuasion>deception; persuasion>faith; persuasion>imagination; persuasion>intention; persuasion>logic; persuasion>motivation; persuasion>pry; persuasion>presentation; persuasion>propaganda; persuasion>torture; pet>animal; pet>ant; pet>bird; pet>cat; pet>chocolate; pet>crab; pet>crocodile; pet>deer; pet>dog; pet>feather; pet>frog; pet>fur; pet>goat; pet>horse; pet>leopard; pet>lion; pet>monkey; pet>parrot; pet>rabbit; pet>sheep; pet>snake; pet>spider; pet>tiger; pharmacist>biologist; pharmacist>chemist; pharmacist>chemist; pharmacist>chemistry; pharmacist>disease; pharmacist>economics; pharmacist>health; pharmacist>health care; pharmacist>medication; pharmacist>nutrition; pharmacist>patient; pharmacist>pharmacy; pharmacist>physics; pharmacist>wage; pharmacy>chemistry; pharmacy>clinic; pharmacy>copper; pharmacy>health; pharmacy>health care; pharmacy>hospital; pharmacy>lead; pharmacy>magazine; pharmacy>medication; pharmacy>nutrition; pharmacy>partnership; pharmacy>pharmacist; pharmacy>retailer; pharmacy>shampoo; pharmacy>supermarket; pharmacy>surgery; pharmacy>symbol; phenomenon>energy; phenomenon>experience; phenomenon>matter; phenomenon>observation; phenomenon>occurrence; phenomenon>philosophy; phenomenon>physics; phenomenon>theory; philosopher>argument; philosopher>concept; philosopher>human; philosopher>knowledge; philosopher>logic; philosopher>person; philosopher>philosophy; philosopher>proposition; philosopher>society; philosopher>argument; philosopher>art; philosopher>beauty; philosopher>belief; philosopher>body; philosopher>debate; philosopher>democracy; philosopher>dialogue; philosophy>economics; philosophy>essence; philosophy>existence; philosophy>faith; philosophy>god; philosophy>government; philosophy>health; philosophy>humility; philosophy>hypothesis; philosophy>integrity; philosophy>justice; philosophy>language; philosophy>law; philosophy>literature; philosophy>logic; philosophy>longevity; philosophy>lyrics; philosophy>materialism; philosophy>mind; philosophy>music; philosophy>nature; philosophy>number; philosophy>proposition; philosophy>proverb; philosophy>psychology; philosophy>reality; philosophy>reason; philosophy>reasoning; philosophy>theory; philosophy>time; philosophy>truth; philosophy>validity; philosophy>world; philosophy>yoga; phone>telephone; photo>photograph; photograph>acid; photograph>camera; photograph>dust; photograph>image; photograph>light; photograph>photography; photographer>advertising; photographer>amateur; photographer>landscape; photographer>photography; photographer>portrait; photograph>art; photograph>beauty; photograph>camera; photograph>computer; photograph>digital camera; photograph>gain; photograph>hobby; photograph>image; photograph>light; photograph>photocopy; photograph>photograph; photograph>photographer; photograph>professional; photograph>science; photograph>television; photograph>thermometer; photograph>tourism; photograph>video; phrasal verb>cliché; phrasal verb>collocation; phrasal verb>idiom; phrasal verb>particle; phrasal verb>phrase; phrasal verb>preposition; phrasal verb>verb; phrase>clause; phrase>word; physics>archaeology; physics>astronomy; physics>atom; physics>biology; physics>bridge; physics>chemistry; physics>computer; physics>curriculum; physics>earth; physics>electricity; physics>energy; physics>engineering; physics>experiment; physics>film; physics>force; physics>geology; physics>heat; physics>industrialization; physics>laser; physics>light; physics>lightning; physics>liquid; physics>matter; physics>nature; physics>phenomenon; physics>philosophy; physics>prediction; physics>research; physics>science; physics>society; physics>sound; physics>space; physics>technology; physics>television; physics>temperature; physics>theory; physics>time; physics>uncertainty; physics>water; physics>video game; piano>cd; piano>clutch; piano>composer; piano>jazz; piano>mp3 player; piano>performance; piano>rehearsal; piano>steel; piano>television; picnic>barbecue; picnic>earth; picnic>meal; picnic>rush hour; picnic>singer; picnic>soft drink; picture>image; pie>army; pie>basket; pie>beef; pie>biscuit; pie>box; pie>bread; pie>butcher; pie>cake; pie>chicken; pie>flour; pie>honey; pie>horse; pie>ice cream; pie>loaf; pie>mushroom; pie>pastry; pie>pizza; pie>pottery; pie>sea; pie>steak; pie>vegetable; pie>wheat; piece>coin; piece>sandwich; piece>unit; pig>animal; pig>art; pig>bacon; pig>extinction; pig>hair; pig>hunting; pig>idiom; pig>leather; pig>literature; pig>mammal; pig>metaphor; pig>porc; pig>religion; pig>tooth; pillow>back; pillow>bed; pillow>chair; pillow>cloth; pillow>cotton; pillow>cushion; pillow>dust; pillow>duvet; pillow>feather; pillow>knee; pillow>laundry; pillow>neck; pillow>silk; pillow>sleep; pillow>television; pin>brass; pin>copper; pin>steel; pin>wire; pine>bar; pine>bird; pine>butterfly; pine>desert; pine>garden; pine>goat; pine>leaf; pine>park; pine>plant; pine>seed; pine>soil; pine>species; pine>tea; pine>timber; pine>tree; pineapple>bat; pineapple>cancer; pineapple>cherry; pineapple>digestion; pink>advertising; pink>aluminium; pink>beauty; pink>blue; pink>cartoon; pink>clothing; pink>corporation; pink>dawn; pink>girl; pink>globalization; pink>green; pink>hat; pink>health; pink>innocence; pink>love; pink>newspaper; pink>people; pink>pig; pink>prosecution; pink>purple; pink>red; pink>scarf; pink>slang; pink>socialism; pink>solicitor;

pink>species; pink>sunset; pink>sweatshirt; pink>toy; pink>verb; pink>vest; pink>white; pink>yellow; pink>yoga; pint>beer; pint>cereal; pint>litre; pint>volume; pitch>tent; pity>aid; pity>emotion; pity>empathy; pity>mercy; pity>money; pity>self-esteem; pity>sorrow; pity>sympathy; pizza>bacon; pizza>banana; pizza>beef; pizza>bread; pizza>business; pizza>cabbage; pizza>champagne; pizza>cheese; pizza>chicken; pizza>corn; pizza>fast food; pizza>garlic; pizza>ham; pizza>honey; pizza>immigrant; pizza>lettuce; pizza>meat; pizza>mushroom; pizza>olive; pizza>onion; pizza>oven; pizza>pineapple; pizza>pork; pizza>salad; pizza>salt; pizza>sausage; pizza>spinach; pizza>tomato; pizza>ton; pizza>tuna; pizza>vegetable; place>gambling; place>mansion; plan>business; plan>career; plan>combat; plan>communication; plan>corporation; plan>diplomacy; plan>engineer; plan>goal; plan>government; plan>individual; plan>legislation; plan>logic; plan>map; plan>mind; plan>planning; plan>project; plan>psychology; plan>regulation; plan>science; plan>set; plan>space; plan>strategy; planet>astronomy; planet>atmosphere; planet>carbon dioxide; planet>common sense; planet>day; planet>earth; planet>fluid; planet>gas; planet>history; planet>inclination; planet>iron; planet>life; planet>population; planet>pressure; planet>religion; planet>season; planet>space; planet>star; planet>sun; planet>telescope; planet>water; planet>volcano; planet>year; planning>intelligence; planning>management; planning>plan; plant>agriculture; plant>alcohol; plant>ant; plant>aspirin; plant>bacteria; plant>beer; plant>branch; plant>carbon dioxide; plant>cereal; plant>coal; plant>coffee; plant>colton; plant>crop; plant>erosion; plant>extinction; plant>flower; plant>forest; plant>frost; plant>fruit; plant>garden; plant>gardening; plant>grain; plant>grass; plant>herb; plant>leaf; plant>life; plant>light; plant>mushroom; plant>oak; plant>olive; plant>oxygen; plant>population; plant>potato; plant>rainforest; plant>rice; plant>root; plant>smoking; plant>soil; plant>species; plant>spice; plant>sugar; plant>sunlight; plant>tea; plant>temperature; plant>timber; plant>tobacco; plant>tree; plant>water; plant>weed; plant>vegetable; plant>wheat; plant>wine; plant>wood; plastic>alcohol; plastic>bone; plastic>carbon; plastic>chewing gum; plastic>copper; plastic>density; plastic>film; plastic>glass; plastic>global warming; plastic>leather; plastic>metal; plastic>oxygen; plastic>paper; plastic>rubber; plastic>silk; plastic>stocking; plastic>wood; player>cd player; playground>business; playground>child; playground>enjoyment; playground>metaphor; playground>park; playground>president; playground>recreation; playground>rocket; playground>school; playground>sport; plea>crime; plea>trial; pleasure>art; pleasure>enjoyment; pleasure>entertainment; pleasure>exercise; pleasure>happiness; pleasure>intellectual; pleasure>leisure; pleasure>literature; pleasure>music; pleasure>pain; pleasure>pride; pleasure>psychology; pleasure>sense; pleasure>suffering; plot>grave; plumber>lead; plumber>metaphor; plumber>water; plural>adjective; plural>noun; plural>pronoun; plural>verb; pocket>backpack; pocket>bag; pocket>clothing; pocket>envelope; pocket>jeans; pocket>luggage; pocket>trousers; pocket>wheat; poem>poetry; poet>poetry; poet>writer; poetry>ambiguity; poetry>comedy; poetry>culture; poetry>dialect; poetry>drama; poetry>feeling; poetry>funeral; poetry>globalization; poetry>grammar; poetry>irony; poetry>language; poetry>literacy; poetry>literature; poetry>memory; poetry>metaphor; poetry>music; poetry>narrative; poetry>paraphrase; poetry>perception; poetry>person; poetry>rhyme; poetry>rhythm; poetry>science fiction; poetry>song; poetry>symbol; poetry>tragedy; poetry>translation; poetry>full stop; point>inch; point>prize; poison>bacteria; poison>biology; poison>bite; poison>carbon monoxide; poison>heart; poison>human; poison>iron; poison>lead; poison>liver; poison>medication; poison>medicine; poison>murder; poison>pain; poison>physics; poison>protein; poison>suicide; polar bear>animal; polar bear>bacteria; polar bear>bear; polar bear>berry; polar bear>climate change; polar bear>crab; polar bear>dna; polar bear>evolution; polar bear>fish; polar bear>liver; polar bear>mammal; polar bear>meat; polar bear>plastic; polar bear>pollution; polar bear>root; polar bear>sea; polar bear>waste; polar bear>whale; polar bear>wolf; pole>column; pole>spouse; pole>tree; police officer>arrest; police officer>bribe; police officer>crime; police officer>criminal; police officer>detective; police officer>fraud; police officer>inspector; police officer>murder; police officer>police; police officer>racism; police officer>rape; police officer>salary; police officer>traffic; police station>building; police station>inspector; police station>police officer; police station>suburb; police>arrest; police>bicycle; police>crime; police>detective; police>fraud; police>jury; police>law; police>police officer; police>population; police>pork; police>prostitute; police>racism; police>radio; police>torture; police>traffic; police>uniform; police>whistle; policeman>police officer; policewoman>police officer; policy>artificial intelligence; policy>contract; policy>debate; policy>evaluation; policy>gambling; policy>implementation; policy>insurance; policy>intent; policy>law; policy>lottery; policy>regulation; politeness>culture; politeness>shame; politician>appointment; politician>election; politician>government; politician>inheritance; politician>politics; politics>art; politics>coin; politics>commerce; politics>communication; politics>company; politics>contract; politics>corruption; politics>education; politics>election; politics>government; politics>individual; politics>inheritance; politics>justice; politics>law; politics>legislation; politics>majority; politics>monopoly; politics>negotiation; politics>parliament; politics>police; politics>property; politics>reform; politics>republic; politics>revenue; politics>science; politics>society; politics>tradition; politics>tribute; pollution>boat; pollution>cancer; pollution>carbon dioxide; pollution>carbon monoxide; pollution>chemical; pollution>climate change; pollution>coal; pollution>energy; pollution>global warming; pollution>industry; pollution>lead; pollution>litter; pollution>medication; pollution>medicine; pollution>ozone; pollution>paint; pollution>rash; pollution>recycling; pollution>smog; pollution>soil; pollution>temperature; pollution>throat; pollution>waste; pond>acre; pond>castle; pond>lake; pond>waterfall; pond>village; pony>genetics; pony>horse; pool>swimming pool; pop>population; pop>soft drink; popularity>cooperation; popularity>empathy; popularity>self-esteem; popularity>video game; population>human; population>human rights; population>poverty; population>religion; population>sex; population>species; pork>apple; pork>bacon; pork>beef; pork>bone; pork>cattle; pork>cholesterol; pork>fat; pork>ham; pork>meat; pork>mushroom; pork>rib; pork>sausage; pork>sheep; pork>shield; pork>shoe; pork>turkey; pork>vegetable; pork>airport; port>canal; port>canal; port>customs; port>harbour; port>road; portrait>emperor; portrait>government; portrait>king; portrait>literature; portrait>politics; portrait>sculpture; portrait>symbol; possession>ownership; possibility>fact; possibility>probability; post office>mail; post>column; post>mail; postcard>envelope; postcard>paper; postcard>photograph; postcard>reality; postcard>souvenir; postcard>stereotype; poster>apartment; poster>college; poster>concert; poster>film; poster>illustration; poster>music; poster>propaganda; poster>protest; poster>teenager; poster>tourism; pot>pottery; potato>carbon dioxide; potato>crop; potato>frost; potato>rice; potato>seed; potato>stomach; potato>wheat; potato>vitamin; potato>yogurt; potential>physics; pottery>archaeology; pottery>art; pottery>carbon monoxide; pottery>coal; pottery>electricity; pottery>iron; pottery>iron; pottery>wood; poverty>disease; poverty>disposable income; poverty>erosion; poverty>exchange rate; poverty>homelessness; poverty>hunger; poverty>literacy; poverty>pregnancy; poverty>racism; poverty>road; poverty>starvation; poverty>stereotype; praise>blame; praise>criticism; praise>motivation; praise>self-esteem; prayer>agriculture; prayer>apple; prayer>disease; prayer>language; prayer>love; prayer>mosque; prayer>religion; prayer>ritual; prayer>sacrifice; prayer>sin; prayer>statistics; prayer>worship; prayer>yoga; precedent>appeal; precedent>contract; precedent>court; precedent>democracy; precedent>district; precedent>fact; precedent>law; precedent>professor; prediction>authority; prediction>engineering; prediction>experiment; prediction>future; prediction>hypothesis; prediction>insurance; prediction>measurement; prediction>navy; prediction>planning; prediction>politics; prediction>probability; prediction>revelation; prediction>risk; prediction>star; prediction>statistics; prediction>stock market; prediction>validity; preference>biology; preference>choice; preference>economics; preference>genetics; preference>happiness; preference>motivation; preference>psychology; prefix>suffix; pregnancy>abortion; pregnancy>bone; pregnancy>neck; pregnancy>pain; pregnancy>spinach; pregnancy>week; prejudice>disability; prejudice>empathy; prejudice>gender; prejudice>language; prejudice>nationality; prejudice>religion; premises>building; premises>negligence; premises>property; preparation>drug; preparation>food; present>day; present>future; present>god; present>light; present>paradigm; present>perception; present>star; present>time; presentation>lecture; presentation>speech; presenter>actor; presenter>comedian; presenter>film; presenter>journalist; presenter>local; presenter>museum; presenter>radio; presenter>singer; presenter>television; presenter>travel; presenter>university; presenter>weather forecast; preservation>toughness; presidency>president; presidency>prime minister; president>club; president>community; president>company; president>country; president>election; president>government; president>judge; president>leader; president>mayor; president>organization; president>parliament; president>prime minister; president>republic; president>turkey; president>university; president>war; pressure>area; pressure>density; pressure>explosion; pressure>fluid; pressure>force; pressure>gas; pressure>liquid; pressure>microphone; pressure>momentum; pressure>water; presumption>divorce; presumption>evidence; presumption>fraud; presumption>risk; price>commodity; price>cost; price>currency; price>euro; price>marketing; pride>assault; pride>death; pride>embarrassment; pride>emotion; pride>empire; pride>envy; pride>god; pride>human rights; pride>humility; pride>image; pride>justice; pride>kindness; pride>nation; pride>patience; pride>racism; pride>religion; pride>self-esteem; pride>selfishness; pride>shame; pride>sin; pride>synonym; pride>vanity; pride>virtue; pride>woman; priest>authority; priest>ceremony; priest>confirmation; priest>religion; priest>ritual; priest>sacrifice; priest>skirt; primary school>science; prime minister>chancellor; prime minister>constitution; prime minister>election; prime minister>government; prime minister>parliament; prime minister>president; prime minister>privilege; prime minister>province; prime minister>turkey; prince>ceremony; prince>count; prince>emperor; prince>king; prince>law; prince>prefix; prince>princess; prince>realm; prince>treary; princess>king; princess>prince; principal>debt; principle>biology; principle>cause; principle>conscience; principle>law; principle>physics; principle>statistic; priority>requirement; prison>castle; prison>gym; prison>hospital; prison>imprisonment; prison>kitchen; prison>library; prison>police officer; prison>prisoner; prison>punishment; prison>suicide; prison>suspect; prison>war; prison>verdict; prisoner>arrest; prisoner>hostage; prisoner>human rights; prisoner>imprisonment; privacy>advertising; privacy>blanket; privacy>clothing; privacy>constitution; privacy>corporation; privacy>democracy; privacy>design; privacy>discrimination; privacy>earnings; privacy>email; privacy>fence; privacy>fraud; privacy>government; privacy>human rights; privacy>income; privacy>individual; privacy>security; privacy>solitude; privacy>towel; privacy>wall; prize>award; prize>controversy; prize>jealousy; prize>medal; prize>money; probability>artificial intelligence; probability>authority; probability>definition; probability>experiment; probability>finance; probability>gambling; probability>odds; probability>philosophy; probability>physics; probability>risk; probability>science; probability>statistics; probability>theory; probability>witness; problem>business; problem>doubt; problem>engineering; problem>inquiry; problem>question; problem>society; problem>walking; problem>worry; procedure>recipe; proceedings>textbook; procession>art; procession>carival; procession>carriage; procession>choir; procession>circus; procession>death; procession>funeral; procession>icon; procession>mayor; procession>parade; procession>poverty; procession>princess; procession>status symbol; procession>train; procession>wedding; produce>apple; produce>autumn; produce>berry; produce>broccoli; produce>cabbage; produce>crop; produce>cucumber; produce>farm; produce>fruit; produce>garlic; produce>grape; produce>harvest; produce>leek; produce>lemon; produce>lettuce; produce>melon; produce>onion; produce>pea; produce>peach; produce>pear; produce>region; produce>season; produce>spinach; produce>summer; produce>supermarket; produce>tomato; produce>vegetable; produce>winter; production>manufacturing; production>theatre; productivity>validity; profession>architect; profession>architecture; profession>examination; profession>law; profession>medicine; profession>pharmacy; profession>professional; profession>teaching; profession>training; profession>university; profession>vocation; professional>amateur; professional>electrician; professional>mind; professional>nurse; professional>plumber; professional>profession; professor>business; professor>college; professor>comedian; professor>design; professor>economics; professor>education; professor>engineering; professor>expert; professor>law; professor>lecture; professor>lecturer; professor>literature; professor>medicine; professor>mosque; professor>music; professor>protagonist; professor>psychologist; professor>research; professor>science; professor>seminar; professor>stereotype; professor>teacher; professor>university; programme>program; programmer>database; programmer>profession; programmer>video game; progression>education; progression>training; project>building; project>business; project>construction; project>contract; project>dissertation; project>engineer; project>goal; project>plan; project>science; project>task; project>team; promise>contract; promise>god; promise>noun; promise>prosperity; promise>verb; promise>vow; pronoun>adjective; pronoun>grammar; pronoun>noun; pronoun>preposition; pronunciation>education; pronunciation>language; proof>argument; proof>evidence; propaganda>advertising; propaganda>attention; propaganda>bias; propaganda>blame; propaganda>business; propaganda>cause; propaganda>deception; propaganda>education; propaganda>fear; propaganda>forgery; propaganda>laboratory; propaganda>leaflet; propaganda>lie; propaganda>news; propaganda>ownership; propaganda>persuasion; propaganda>rape; propaganda>slogan; propaganda>timber; propaganda>torture; propaganda>truth; propaganda>war; propaganda>west; property>abortion; property>capitalism; property>clothing; property>constitution; property>contract; property>corporation; property>economics; property>gift; property>god; property>government; property>idea; property>industry; property>interest; property>law; property>liberty; property>owner; property>ownership; property>parliament; property>regulation; property>religion; property>right; property>socialism; property>state; property>stock; property>tax; property>temple; property>theft; property>trade; property>wealth; proposal>proposition; proposition>belief; proposition>fact; proposition>logic; proposition>philosophy; proposition>psychology; proposition>truth; proposition>validity; prosecution>prosecutor; prosecutor>advocate; prosecutor>detective; prosecutor>judge; prosecutor>jury; prosecutor>law; prosecutor>magistrate; prosecutor>police; prosecutor>profession; prosecutor>sollicitor; prosperity>ecology; prosperity>happiness; prosperity>health; prosperity>immune system; prosperity>income; prosperity>wealth; protagonist>audience; protagonist>narrative; protagonist>narrator; protagonist>tragedy; protection>safety; protection>security; protection>toughness; protein>acid; protein>atom; protein>blood; protein>digestion; protein>dna; protein>evolution; protein>feather; protein>gene; protein>hair; protein>lung; protein>muscle; protein>oxygen; protein>starvation; protein>virus; protest>bombing; protest>culture; protest>globalization; protest>government; protest>inflation; protest>injustice; protest>monopoly; protest>police; protest>policy; protest>revolution; protest>riot; protest>sport; protest>stock; protest>suicide; protest>war; proverb>advertising; proverb>literature; proverb>metaphor; proverb>paradox; proverb>rhyme; proverb>saying; provider>prostitute; province>constitution; province>country; province>county; province>education; province>magistrate; province>parliament; province>property; province>region; province>republic; proximity>distance; psychiatrist>medicine; psychiatrist>profession; psychiatrist>psychologist; psychiatrist>psychology; psychologist>dissertation; psychologist>psychiatrist; psychologist>psychology; psychologist>seminar; psychologist>training; psychologist>adaptation; psychology>anxiety; psychology>artificial intelligence; psychology>attention; psychology>chemistry; psychology>child; psychology>consciousness; psychology>death; psychology>education; psychology>emotion; psychology>evolution;

psychology>experiment; psychology>explanation; psychology>happiness; psychology>information; psychology>interview; psychology>knowledge; psychology>laboratory; psychology>language; psychology>learning; psychology>medicine; psychology>memory; psychology>motivation; psychology>myth; psychology>pain; psychology>paradigm; psychology>perception; psychology>persuasion; psychology>philosophy; psychology>physics; psychology>pleasure; psychology>psychiatrist; psychology>psychologist; psychology>questionnaire; psychology>reasoning; psychology>school; psychology>stereotype; psychology>symbol; psychology>teaching; psychology>technology; psychology>thought; psychology>tool; pub>beer; pub>century; pub>dna; pub>freezer; pub>intellectual; pub>landlord; pub>nightclub; pub>pie; pub>pub; pub>stable; psychology>tournament; public transport>airline; public transport>bus; public transport>canal; public transport>carbon dioxide; public transport>cd player; public transport>fare; public transport>ferry; public transport>passenger; public transport>pollution; public transport>revenue; public transport>rush hour; public transport>subsidy; public transport>traffic jam; publication>magazine; publication>newspaper; publicity>advertising; publicity>book; publicity>celebrity; publicity>employment; publicity>film; publicity>marketing; pudding>brand; pudding>butter; pudding>cereal; pudding>dessert; puddings>flour; pudding>milk; pudding>oven; pudding>rice; pudding>saucepan; pudding>sugar; pullover>gymnastics; pullover>sweater; pulse>blood; pulse>bone; pulse>elbow; pulse>heart; pulse>knee; pulse>light; pulse>medicine; pulse>neck; pulse>wrist; pump>air conditioning; pump>energy; pump>gas; pump>liquid; pump>pressure; punctuation>alphabet; punctuation>drama; punctuation>full stop; punctuation>semicolon; punctuation>time; punctuation>usage; punctuation>writing; punishment>authority; punishment>child; punishment>cooperation; punishment>crime; punishment>criminal; punishment>law; punishment>liberty; punishment>pain; punishment>parent; punishment>prison; punishment>revenge; punishment>society; punishment>teacher; pupil>alcohol; pupil>cat; pupil>dog; pupil>evolution; pupil>fox; pupil>goat; pupil>horse; pupil>plural; pupil>sheep; puppy>birth; puppy>dog; puppy>eye; puppy>kitten; purity>vice; purple>air; purple>blood; purple>blue; purple>capitalism; purple>emperor; purple>rose; purple>silks; purple>soundtrack; purple>star; purple>sugar; purple>tennis; purple>wool; purpose>intention; purse>boxing; purse>handbag; purse>wallet; push>force; puzzle>game; puzzle>inquiry; puzzle>pattern; puzzle>problem; puzzle>research; puzzle>toy; puzzle>verb; pyramid>basketball; pyramid>brick; pyramid>millennium; pyramid>pottery; pyramid>temple; pyramid>tomb; pyramid>turkey; pyramid>volleyball; qualification>education; qualification>examination; qualification>tournament; quantity>circle; quantity>density; quantity>distance; quantity>energy; quantity>gender; quantity>heat; quantity>noun; quantity>person; quantity>pressure; quantity>ratio; quantity>time; quantity>volume; quarrel>arrow; query>question; quest>fantasy; quest>friendship; quest>hero; quest>literature; quest>temptation; question mark>diagnosis; question mark>exclamation mark; question mark>full stop; question mark>semicolon; question mark>question mark; question mark>university; question>answer; question>concept; question>debate; question>doubt; question>exam; question>examination; question>grammar; question>information; question>inquiry; question>logic; question>philosophy; question>problem; question>proposition; question>question mark; question>quiz; question>research; question>theory; question>truth; question>verb; questionnaire>question; questionnaire>research; questionnaire>statistics; quiet>silence; quiz>blog; quiz>game; quiz>radio; quiz>television; quotation>author; quotation>blog; quotation>cliché; quotation>email; quotation>film; quotation>painting; quotation>proverb; quotation>punctuation; quote>quotation; rabbit>animal; rabbit>cartoon; rabbit>cat; rabbit>desert; rabbit>disease; rabbit>dog; rabbit>forest; rabbit>fur; rabbit>gas; rabbit>grass; rabbit>gun; rabbit>luck; rabbit>mammal; rabbit>predator; rabbit>pregnancy; rabbit>protein; rabbit>sheep; rabbit>species; rabbit>vitamin; rabbit>woodland; rabbit>wool; racism>biology; racism>culture; racism>discrimination; racism>dislike; racism>education; racism>folk; racism>health care; racism>history; racism>human rights; racism>jazz; racism>nation; racism>philosophy; racism>politician; racism>prejudice; racism>statistics; racism>stereotype; racism>synonym; racism>violence; racism>xenophobia; racist>racism; radiation>atom; radiation>cancer; radiation>energy; radiation>light; radiation>physics; radiation>red; radiation>spectrum; radiation>sun; radiation>thermometer; radiation>x-ray; radio>atom; radio>computer; radio>dvd; radio>electronics; radio>energy; radio>hobby; radio>horizon; radio>information; radio>invention; radio>investment; radio>light; radio>microphone; radio>mobile phone; radio>music; radio>regulation; radio>silks; radio>technology; radio>telecommunications; radio>television; radio>violin; radio>x-ray; raid>terrorist; rail>curtain; rain>agriculture; rain>atmosphere; rain>climate; rain>cloud; rain>continent; rain>desert; rain>drought; rain>flood; rain>global warming; rain>hail; rain>iron; rain>ocean; rain>parachute; rain>plant; rain>rainbow; rain>raincoat; rain>smoke; rain>snow; rain>soil; rain>storm; rain>summer; rain>thunder; rain>thunderstorm; rain>tornado; rain>umbrella; rain>water; rain>weather; rain>bow>aeroplane; rain>bow>angle; rain>bow>blue; rain>bow>cloud; rain>bow>experiment; rain>bow>fountain; rain>bow>green; rain>bow>helicopter; rain>bow>horizon; rain>bow>laser; rain>bow>light; rain>bow>red; rain>bow>sunlight; rain>bow>waterfall; rain>bow>wave; rain>bow>yellow; rain>coat>rain; rain>forest>acre; rain>forest>adaptation; rain>forest>aluminium; rain>forest>bacteria; rain>forest>bat; rain>forest>bird; rain>forest>branch; rain>forest>butterfly; rain>forest>carbon dioxide; rain>forest>cloud; rain>forest>coast; rain>forest>eagle; rain>forest>earth; rain>forest>ecology; rain>forest>extinction; rain>forest>forest; rain>forest>iron; rain>forest>jungle; rain>forest>leaf; rain>forest>leopard; rain>forest>lung; rain>forest>mammal; rain>forest>medicine; rain>forest>monkey; rain>forest>oxygen; rain>forest>rain; rain>forest>reptile; rain>forest>river; rain>forest>snake; rain>forest>species; rain>forest>sunlight; rain>forest>tree; rain>forest>turkey; rain>forest>vegetation; rain>forest>vine; rain>forest>volcano; rank>hierarchy; rape>anger; rape>blood; rape>consent; rape>family; rape>friend; rape>human rights; rape>marriage; rape>police; rape>secondary school; rape>suicide; rape>war; rape>virgin; rash>anxiety; rash>blister; rash>bruise; rash>friction; rash>heat; rash>irritation; rash>pregnancy; rash>sun; rash>vaccine; rat>animal; rat>bean; rat>brain; rat>breed; rat>cat; rat>crime; rat>disease; rat>dog; rat>drug; rat>ecology; rat>experiment; rat>genetics; rat>health; rat>heart; rat>intelligence; rat>kidney; rat>lever; rat>mammal; rat>mouse; rat>noun; rat>psychology; rat>science fiction; rat>species; rat>suburb; rat>verb; rate>exchange rate; rating>evaluation; ratio>slope; ratio>television; razor>barber; razor>blade; razor>bread; razor>bronze; razor>cutlery; razor>tool; reality>astronomy; reality>consciousness; reality>culture; reality>disposition; reality>dream; reality>energy; reality>essence; reality>evolution; reality>existence; reality>fact; reality>fantasy; reality>fiction; reality>film; reality>future; reality>illusion; reality>imagination; reality>jargon; reality>knowledge; reality>language; reality>lie; reality>life; reality>matter; reality>measurement; reality>mind; reality>momentum; reality>nature; reality>necessity; reality>novel; reality>observation; reality>phenomenon; reality>philosophy; reality>physics; reality>politics; reality>present; reality>quantity; reality>reason; reality>religion; reality>science fiction; reality>space; reality>theory; reality>thought; reality>time; reality>truth; reality>virtual reality; reality>virtue; realm>empire; reason>argument; reason>art; reason>artificial intelligence; reason>behaviour; reason>belief; reason>calculation; reason>cause; reason>consciousness; reason>consciousness; reason>economics; reason>fact; reason>faith; reason>fantasy; reason>feeling; reason>friendship; reason>head; reason>heart; reason>history; reason>human; reason>imagination; reason>inquiry; reason>institution; reason>intellect; reason>knowledge; reason>language; reason>law; reason>logic; reason>mind; reason>nature; reason>philosopher; reason>philosophy; reason>probability; reason>psychology; reason>reality; reason>religion; reason>revelation; reason>science; reason>space; reason>symbol; reason>theory; reason>thought; reason>time; reason>tradition; reason>truth; reason>wisdom; reason>wisdom; reason>reason; rebel>rebellion; rebellion>authority; rebellion>behaviour; rebellion>government; rebellion>president; rebellion>revolution; rebellion>terrorism; receipt>euro; receipt>payment; receipt>tax; reception>popularity; reception>receipt; reception>receptionist; receptionist>business; receptionist>coffee; receptionist>company; receptionist>employee; receptionist>greeting; receptionist>interview; receptionist>mail; receptionist>office; receptionist>organization; receptionist>secretary; receptionist>tea; receptionist>telephone; recession>merger; recession>productivity; recipe>bay; recipe>food; recognition>award; record>document; record>recording; recording>data; recording>writing; recovery>cure; recreation>amusement; recreation>beach; recreation>employment; recreation>entertainment; recreation>fun; recreation>happiness; recreation>leisure; recreation>park; recreation>pleasure; recreation>seminar; recreation>sleep; recreation>tourism; recruit>recruitment; recruitment>advertising; recruitment>company; recruitment>employer; recruitment>employment; recruitment>knowledge; recruitment>literacy; recruitment>organization; recruitment>reference; recruitment>skill; rectangle>angle; rectangle>area; rectangle>butterfly; rectangle>circle; rectangle>green; rectangle>length; rectangle>square; rectangle>wire; recycling>aluminium; recycling>architect; recycling>chemist; recycling>computer; recycling>demand; recycling>economics; recycling>economist; recycling>electronics; recycling>energy; recycling>environmentalist; recycling>factory; recycling>finance; recycling>glass; recycling>gold; recycling>iron; recycling>law; recycling>lead; recycling>market; recycling>material; recycling>metal; recycling>mining; recycling>paper; recycling>plastic; recycling>resource; recycling>steel; recycling>sustainability; recycling>timber; recycling>warehouse; recycling>waste; recycling>wool; red>aggression; red>anger; red>autism; red>beauty; red>blood; red>blue; red>boxing; red>cherry; red>courage; red>drum; red>dvd; red>fire; red>food; red>force; red>green; red>happiness; red>hate; red>heat; red>laser; red>love; red>medicine; red>night; red>oak; red>pottery; red>risk; red>rose; red>socialism; red>soft drink; red>south; red>sport; red>star; red>strawberry; red>sugar; red>sun; red>sunrise; red>temperature; red>time; red>tomato; red>turkey; red>war; red>well-being; red>violin; red>yellow; redevelopment>carbon footprint; referee>cricket; referee>female; referee>ice hockey; referee>ice hockey; referee>volleyball; reference>art; reference>committee; reference>diary; reference>dictionary; reference>energy; reference>god; reference>invention; reference>knowledge; reference>library; reference>matter; reference>meeting; reference>negotiation; reference>noun; reference>prefix; reference>project; reference>pronoun; reference>referee; reference>referendum; reference>telephone; reference>validity; reference>word; referendum>alcohol; referendum>constitution; referendum>currency; referendum>election; referendum>euro; referendum>gerund; referendum>independence; referendum>initiative; referendum>law; referendum>majority; referendum>propaganda; referendum>public; referendum>unity; referendum>vote; reform>hyphen; reform>revolution; reform>spelling; refuge>safety; refuge>anxiety; refuge>arrest; refuge>climate change; refuge>country; refuge>exile; refuge>government; refuge>human rights; refuge>male; refuge>nationality; refuge>passport; refuge>poverty; refuge>risk; refuge>slavery; refuge>suicide; refuge>turkey; refuge>war; refuge>violence; regime>geography; regime>measurement; region>atmosphere; region>climate; region>continent; region>county; region>county; region>earth; region>earthquake; region>ecology; region>economics; region>exploration; region>geography; region>geology; region>human; region>ocean; region>politics; region>province; region>tourism; region>water; registration>register; regulation>contract; regulation>economics; regulation>employment; regulation>government; regulation>industry; regulation>information; regulation>law; regulation>monopoly; regulation>policy; regulation>pollution; regulation>price; regulation>society; regulation>wage; rehearsal>performance; reign>death; relation>diplomacy; relaxation>recreation; relevance>contradiction; relevance>description; relevance>distraction; relevance>economist; relevance>famine; relevance>intent; relevance>poverty; relief>bronze; relief>earth; relief>sun; religion>art; religion>belief; religion>culture; religion>dance; religion>education; religion>evolution; religion>experiment; religion>faith; religion>family; religion>festival; religion>funeral; religion>god; religion>government; religion>hospital; religion>law; religion>music; religion>philosophy; religion>politics; religion>prayer; religion>priest; religion>revelation; religion>ritual; religion>sacrifice; religion>science; religion>symbol; religion>temple; religion>terrorism; religion>theory; religion>worship; relish>cooking; relish>fruit; relish>garlic; relish>jam; relish>pear; relish>sauce; relish>vegetable; remains>body; remains>skeleton; remark>comment; remedy>cure; remedy>education; remedy>therapy; remorse>empathy; remorse>fear; remorse>marketing; remorse>psychology; remorse>resentment; remote control>dog; remote control>dvd; remote control>electronics; remote control>microphone; remote control>robot; remote control>television; remote control>tv; renovation>engineering; renovation>planning; renovation>repair; reply>answer; reply>question; report>presentation; reporters>journalist; representation>contract; reproduction>adult; reproduction>analogy; reproduction>animal; reproduction>bacteria; reproduction>bee; reproduction>bird; reproduction>evolution; reproduction>female; reproduction>fish; reproduction>genetics; reproduction>human; reproduction>life; reproduction>lottery; reproduction>male; reproduction>plant; reproduction>rabbit; reproduction>reptile; reproduction>seed; reproduction>sex; reproduction>shark; reproduction>virus; reptile>bird; reptile>crocodile; reptile>digestion; reptile>dinosaur; reptile>extinction; reptile>fish; reptile>heart; reptile>kidney; reptile>leather; reptile>lion; reptile>lung; reptile>mammal; reptile>oxygen; reptile>snake; reptile>public common sense; republic>constitution; republic>coup; republic>democracy; republic>independence; republic>president; republic>prime minister; reputation>assault; reputation>asset; reputation>auction; reputation>behaviour; reputation>belief; reputation>brand; reputation>business; reputation>candidate; reputation>citizen; reputation>community; reputation>company; reputation>competitor; reputation>consumer; reputation>cooperation; reputation>corporation; reputation>culture; reputation>customer; reputation>deception; reputation>definition; reputation>education; reputation>employee; reputation>evaluation; reputation>evolution; reputation>friendship; reputation>globalization; reputation>gossip; reputation>government; reputation>headache; reputation>honour; reputation>industry; reputation>interaction; reputation>investor; reputation>journalism; reputation>leadership; reputation>management; reputation>news; reputation>opinion; reputation>organization; reputation>person; reputation>phenomenon; reputation>potential; reputation>risk; reputation>role; reputation>science; reputation>social networking; reputation>stock market; reputation>sum; reputation>wealth; request>question; requirement>illusion; requirement>implementation; rescue>ambulance; rescue>court; rescue>helicopter; rescue>horse; rescue>injury; rescue>life; rescue>patient; rescue>police; rescue>prosecutor; rescue>tool; rescue>training; rescue>vehicle; rescue>wilderness; research>analysis; research>art; research>corporation; research>credibility; research>curiosity; research>dissertation; research>evidence; research>experiment; research>history; research>hypothesis; research>information; research>integrity; research>interpretation; research>knowledge; research>medicine; research>nature; research>scholar; research>science; research>theory; researcher>research; researcher>science; researcher>scientist; resemblance>similarity; resentment>anger; resentment>contempt; resentment>discrimination; resentment>envy; resentment>hatred; resentment>injustice; resentment>jealousy; resentment>prejudice; resentment>remorse; resentment>revenge; resentment>status; reserve>park; residence>home; residence>house; resident>patient; resignation>election; resignation>inheritance; resistance>friction; resort>beach; resort>coast; resort>entertainment; resort>golf; resort>hotel; resort>nightclub; resort>pub; resort>recreation; resort>restaurant; resort>skiing; resort>soft drink; resort>swimming pool; resort>tourism; resource>air; resource>benefit; resource>biology; resource>competition; resource>computer; resource>cost; resource>ecology; resource>economics; resource>fish; resource>infrastructure; resource>interest; resource>leadership; resource>management; resource>prosperity; resource>reproduction; resource>risk; resource>scarcity; resource>sustainability; resource>wage;

resource>water; resource>wealth; respect>affection; respect>disrespect; respect>entity; respect>person; respect>pronoun; respect>rudeness; response>answer; response>output; responsibility>blame; responsibility>duty; responsibility>obligation; rest>leg; rest>leisure; rest>sleep; restaurant>business; restaurant>catering; restaurant>chef; restaurant>customer; restaurant>disability; restaurant>drink; restaurant>fast food; restaurant>food; restaurant>hygiene; restaurant>lunch; restaurant>menu; restaurant>mess; restaurant>pub; restaurant>review; restaurant>steak; restaurant>waiter; restraint>brake; restraint>self-control; restriction>regulation; result>accuracy; result>advantage; result>calculation; result>change; result>competition; result>confrontation; result>credibility; result>democracy; result>disadvantage; result>economics; result>election; result>experiment; result>gain; result>game; result>information; result>injury; result>justice; result>lottery; result>phenomenon; result>relevance; result>research; result>science; result>sequence; result>statistics; result>war; result>victory; result>vote; retail>consumer; retail>department store; retail>download; retail>manufacturing; retail>marketing; retail>menu; retail>mp3 player; retail>pedestrian; retail>price; retail>recreation; retail>reputation; retail>roof; retail>shopping; retail>supermarket; retail>telephone; retail>trade; retail>workforce; retailer>retail; retirement>disability; retirement>employment; retirement>golf; retirement>hobby; retirement>inflation; retirement>investment; retirement>pension; retirement>researcher; retirement>sailing; retirement>saving; retirement>sport; retirement>stock market; retirement>tourism; retirement>volunteer; retreat>therapy; return>election; reward>award; revelation>angel; revelation>authority; revelation>god; revelation>materialism; revelation>miracle; revelation>physics; revelation>religion; revelation>scholar; revelation>sin; revenge>dignity; revenge>forgiveness; revenge>generation; revenge>honour; revenge>justice; revenge>murder; revenge>turkey; revenge>war; revenue>asset; revenue>bank; revenue>barber; revenue>business; revenue>cash; revenue>corporation; revenue>currency; revenue>expense; revenue>expenses; revenue>manufacturing; revenue>stock; review>book; review>car; review>computer; review>essay; review>film; review>socialist; review>video game; revolution>capitalism; revolution>coup; revolution>culture; revolution>democracy; revolution>discrimination; revolution>economy; revolution>force; revolution>harvest; revolution>history; revolution>philosophy; revolution>pump; revolution>rebellion; revolution>recession; revolution>reform; revolution>regime; revolution>religion; revolution>riot; revolution>society; revolution>technology; revolution>theory; revolution>war; rhyme>poem; rhyme>rhythm; rhyme>song; rhyme>syllable; rhyme>synonym; rhythm>dance; rhythm>drum; rhythm>jazz; rhythm>pattern; rhythm>stroke; rhythm>time; rib>bone; rib>chest; rib>fish; rib>frog; rib>heart; rib>lung; rib>neck; rib>reptile; rib>shark; rib>snake; rib>x-ray; ribbon>cloth; ribbon>ink; ribbon>metal; ribbon>plastic; ribbon>silk; ribbon>symbol; ribbon>velvet; rice>basket; rice>carbon dioxide; rice>cereal; rice>disease; rice>pressure; rice>rat; rice>seed; rice>straw; rice>volume; riches>wealth; richness>wealth; riot>authority; riot>harvest; riot>hockey; riot>imprisonment; riot>people; riot>police; riot>property; riot>protest; riot>rebellion; riot>religion; riot>revolution; riot>sport; riot>violence; rise>sunrise; risk>adventure; risk>ambiguity; risk>anxiety; risk>asset; risk>certainty; risk>crisis; risk>disaster; risk>emergency; risk>finance; risk>fraud; risk>gambling; risk>hazard; risk>insurance; risk>luck; risk>probability; risk>professional; risk>speculation; risk>threat; risk>uncertainty; risk>workplace; ritual>carnival; ritual>ceremony; ritual>community; ritual>dance; ritual>drink; ritual>food; ritual>music; ritual>psychology; ritual>religion; ritual>singing; ritual>tradition; ritual>worship; rival>competition; rivalry>rival; river>bridge; river>canal; river>cave; river>cereal; river>drought; river>ferry; river>flood; river>lake; river>litre; river>mammal; river>ocean; river>planet; river>pressure; river>sailing; river>sand; river>sea; river>stream; river>tide; river>tunnel; river>water; river>waterfall; river>wood; road>brick; road>bridge; road>bus; road>city; road>cliff; road>concrete; road>copper; road>dirt; road>economics; road>erosion; road>ferry; road>lane; road>law; road>lead; road>motorway; road>mountain; road>pedestrian; road>person; road>planning; road>river; road>roundabout; road>sand; road>sea; road>slope; road>society; road>statistics; road>stream; road>street; road>traffic; road>traffic light; road>trail; road>travel; road>tree; road>waste; road>vegetation; road>vehicle; road>village; robbery>blackmail; robbery>burglary; robbery>crime; robbery>intention; robbery>mobile phone; robbery>theft; robbery>weapon; robots>artificial intelligence; robots>disability; robots>electronics; robots>laboratory; robots>legend; robot>pharmacist; robot>planet; robot>technology; robots>theatre; robot>virtual reality; robot>volcano; rock>jewellery; rocket>acre; rocket>aircraft; rocket>bomb; rocket>firework; rocket>flight; rocket>fluid; rocket>force; rocket>fuel; rocket>helicopter; rocket>landing; rocket>legend; rocket>light; rocket>missile; rocket>oxygen; rocket>parachute; rocket>petrol; rocket>rescue; rocket>satellite; rocket>weapon; rocket>vehicle; role>ambiguity; role>behaviour; role>economics; role>electrician; role>genetics; role>philosophy; role>punishment; role>right; role>shopkeeper; role>society; roll>role; roof>aluminium; roof>arch; roof>banana; roof>building; roof>cathedral; roof>ceiling; roof>construction; roof>copper; roof>electricity; roof>heat; roof>house; roof>lead; roof>legislation; roof>material; roof>rain; roof>snow; roof>stadium; roof>steel; roof>straw; roof>sunlight; roof>timber; roof>weather; roof>wind; room>bathroom; room>bedroom; room>box; room>door; room>kitchen; room>staircase; room>suburb; room>wall; roommate>apartment; roommate>loneliness; roommate>privacy; root>bacteria; root>carrot; root>cherry; root>iron; root>mung; root>plant; root>potato; root>strawberry; root>temple; root>tree; root>water; rope>anchor; rope>chain; rope>construction; rope>cotton; rope>fibre; rope>grass; rope>knot; rope>leather; rope>linen; rope>sail; rope>silk; rope>straw; rope>wool; rose>alcohol; rose>bird; rose>chocolate; rose>coast; rose>deer; rose>erosion; rose>flower; rose>herb; rose>insect; rose>jam; rose>leaf; rose>plant; rose>root; rose>seed; rose>circle; round>sphere; roundabout>bicycle; roundabout>motorist; roundabout>pedestrian; roundabout>traffic light; roundabout>tram; roundabout>van; row>controversy; rubbish>waste; rudeness>cough; rudeness>crime; rudeness>dignity; rudeness>gender; rudeness>insult; rudeness>library; rudeness>mask; rudeness>mobile phone; rudeness>noise; rudeness>politeness; rudeness>religion; rudeness>snob; rug>carpet; rugby>swimming pool; rule>law; rule>lawyer; ruler>lead; ruler>waist; ruling>rule; run>running; run>stream; runner>running; running>endurance; running>jogging; running>marathon; running>mud; running>oxygen; running>speed; running>walking; runway>aircraft; runway>brick; runway>concrete; runway>coral; runway>density; runway>distance; runway>grass; runway>ice; runway>landing; runway>salt; runway>sand; runway>snow; runway>soil; runway>weather; runway>wind; rush hour>construction; rush hour>fare; rush hour>last food; rush hour>festival; rush hour>lunchtime; rush hour>public transport; rush hour>restaurant; rush hour>traffic; rush hour>train; rush hour>weather; rush hour>worship; sack>bag; sack>bed; sacrifice>civilization; sacrifice>death; sacrifice>god; sacrifice>metaphor; sacrifice>murder; sacrifice>sun; sacrifice>worship; saddle>camel; saddle>cattle; saddle>horse; saddle>pressure; saddle>status symbol; saddle>sword; sadness>anger; sadness>disgust; sadness>empathy; sadness>fear; sadness>happiness; sadness>pupil; safety>accident; safety>aircraft; safety>awareness; safety>bicycle; safety>boat; safety>child; safety>error; safety>guarantee; safety>harm; safety>insurance; safety>regulation; safety>risk; safety>roundabout; safety>security; safety>traffic light; safety>training; sail>kite; sail>machine; sail>recreation; sail>sailing; sail>wing; sail>yacht; sailing>anchor; sailing>crew; sailing>fishing; sailing>geography; sailing>history; sailing>port; sailing>recreation; sailing>sail; sailing>sailor; sailing>weather; sailing>wind; sailing>windsurfing; sailing>wing; sailing>yacht; sailor>air conditioning; sailor>electrician; sailor>iceberg; sailor>navy; sailor>nurse; sailor>sail; sailor>sailing; saint>belief; saint>god; saint>heaven; saint>icon; saint>revelation; saint>virtue; saint>worship; salad>appetite; salad>bacon; salad>beef; salad>carrot; salad>casserole; salad>cheese; salad>cucumber; salad>dessert; salad>fast food; salad>fish; salad>fruit; salad>herb; salad>lettuce; salad>main course; salad>meal; salad>meat; salad>milk; salad>mushroom; salad>onion; salad>pasta; salad>salmon; salad>sandwich; salad>sauce; salad>spice; salad>spinach; salad>steak; salad>supermarket; salad>tomato; salad>tuna; salad>vegetable; salad>vinegar; salad>yogurt; salary>beer; salary>corporation; salary>office; salary>overtime; salary>partnership; salary>profession; salary>salt; salary>slavery; salary>soldier; salary>wage; salary>village; salmon>cholesterol; salmon>protein; salmon>species; salt>animal; salt>fire; salt>iron; salt>mining; salt>plastic; salt>pregnancy; salt>rice; salt>salary; salt>soap; salt>stroke; salt>sunlight; salt>taste; salt>water; sand>agriculture; sand>beach; sand>brick; sand>concrete; sand>coral; sand>erosion; sand>flour; sand>glass; sand>iron; sand>material; sand>paint; sand>soil; sandal>ankle; sandal>boot; sandal>fashion; sandal>foot; sandal>leather; sandal>rope; sandal>rubber; sandal>shoe; sandal>shoe; sandal>trekking; sandal>wood; sandal>yoga; sandwich>bread; sandwich>cheese; sandwich>ham; sandwich>meat; sandwich>picnic; sandwich>sauce; satellite>circle; satellite>climate; satellite>earth; satellite>human; satellite>image; satellite>inclination; satellite>landing; satellite>planet; satellite>shadow; satellite>sun; satellite>telecommunications; satellite>turkey; saturday>day; saturday>friday; saturday>harvest; saturday>hour; saturday>purple; saturday>slang; saturday>sun; saturday>sunday; saturday>sweets; saturday>thursday; saturday>week; saturday>weekend; sauce>beef; sauce>cooking; sauce>dessert; sauce>fruit; sauce>ham; sauce>liquid; sauce>pork; sauce>potato; sauce>salad; sauce>tomato; sauce>vegetable; saucer>cat; saucer>coffee; saucer>spoon; saucer>tea; sausage>barbecue; sausage>beef; sausage>beer; sausage>blood; sausage>bread; sausage>breakfast; sausage>butcher; sausage>carrot; sausage>casserole; sausage>comedy; sausage>cooking; sausage>deer; sausage>fat; sausage>food; sausage>heat; sausage>hierarchy; sausage>industry; sausage>kangaroo; sausage>leek; sausage>lemon; sausage>lunch; sausage>onion; sausage>plastic; sausage>poet; sausage>pork; sausage>potato; sausage>pudding; sausage>ratio; sausage>salmon; sausage>sandwich; sausage>spice; sausage>stomach; sausage>taste; sausage>turkey; sausage>vegetable; sausage>vegetarian; sausage>wine; sausage>vinegar; saving>bank; saving>cost; saving>income; saving>interest; saving>investment; saving>money; saving>pension; saving>recession; savings>saving; saying>cliché; saying>idiom; saying>proverb; scar>accident; scar>bone; scar>chest; scar>disease; scar>fat; scar>heart; scar>injury; scar>muscle; scar>pregnancy; scars>shoulder; scars>skin; scars>surgery; scar>wound; scarcity>extinction; scarcity>resource; scarcity>society; scarcity>species; scarf>colour; scarf>fabric; scarf>fashion; scarf>garment; scarf>religion; scarf>waist; scarf>wool; scenario>ballet; scenario>composer; scenario>opera; scene>scenery; school>breakfast; school>classroom; school>college; school>education; school>gang; school>gym; school>health care; school>institution; school>leisure; school>library; school>lunch; school>mosque; school>office; school>primary school; school>secondary school; school>self-esteem; school>soldier; school>student; school>teacher; school>toddler; school>university; school>vandalism; schoolchild>child; schooling>school; science fiction>archaeology; science fiction>artificial intelligence; science fiction>chemistry; science fiction>computer; science fiction>disaster; science fiction>economics; science fiction>electricity; science fiction>email; science fiction>fantasy; science fiction>fiction; science fiction>film; science fiction>future; science fiction>history; science fiction>imagination; science fiction>innovation; science fiction>narrative; science fiction>novel; science fiction>optimism; science fiction>physics; science fiction>psychology; science fiction>satellite; science fiction>science; science fiction>technology; science fiction>video game; science>accuracy; science>astronomy; science>biology; science>calculator; science>cancer; science>certainty; science>chemistry; science>civilization; science>concept; science>dna; science>electronics; science>energy; science>engineering; science>entertainment; science>evolution; science>fact; science>formula; science>geology; science>hygiene; science>hypothesis; science>knowledge; science>literature; science>logic; science>measurement; science>medicine; science>mobile phone; science>nature; science>observation; science>phenomenon; science>philosophy; science>physics; science>poetry; science>policy; science>politician; science>potential; science>psychology; science>religion; science>research; science>science fiction; science>scientist; science>society; science>species; science>statistics; science>technology; science>telecommunications; science>television; science>theory; science>truth; science>vaccination; science>watch; scientist>archaeologist; scientist>artificial intelligence; scientist>astronomy; scientist>biology; scientist>blood; scientist>career; scientist>chemist; scientist>chemistry; scientist>computer; scientist>data; scientist>disease; scientist>ecology; scientist>economist; scientist>electronics; scientist>engineer; scientist>experiment; scientist>genetics; scientist>heat; scientist>human; scientist>knowledge; scientist>laboratory; scientist>light; scientist>matter; scientist>medicine; scientist>mind; scientist>music; scientist>musician; scientist>nature; scientist>number; scientist>nurse; scientist>observation; scientist>perception; scientist>philosophy; scientist>physics; scientist>planet; scientist>priest; scientist>probability; scientist>profession; scientist>psychologist; scientist>reality; scientist>science; scientist>technology; scientist>theory; scientist>thought; scientist>world; scissors>barber; scissors>blade; scissors>branch; scissors>bronze; scissors>child; scissors>cloth; scissors>fingernail; scissors>food; scissors>grass; scissors>hair; scissors>hairdresser; scissors>iron; scissors>metal; scissors>moustache; scissors>paper; scissors>pillow; scissors>plastic; scissors>rope; scissors>rubber; scissors>surgery; scissors>toenail; scissors>wire; scissors>wool; score>pottery; scrap>death; scrap>engine; scrap>injury; scrap>machinery; scrap>waste; scratch>ice hockey; scratch>money; scratch>video game; screen>cable; screen>television; sculpture>aluminium; sculpture>archaeology; sculpture>architecture; sculpture>bicycle; sculpture>bronze; sculpture>concrete; sculpture>emperor; sculpture>glass; sculpture>gold; sculpture>jewellery; sculpture>mask; sculpture>material; sculpture>medal; sculpture>metal; sculpture>museum; sculpture>oak; sculpture>paint; sculpture>pottery; sculpture>proverb; sculpture>relief; sculpture>silver; sculpture>statue; sculpture>steel; sculpture>stone; sculpture>temperature; sculpture>thief; sculpture>wood; sea>aircraft; sea>art; sea>bacteria; sea>carbon dioxide; sea>coal; sea>cod; sea>commodity; sea>composer; sea>copper; sea>coral; sea>environmentalist; sea>fish; sea>friction; sea>gold; sea>infrastructure; sea>iron; sea>lake; sea>lead; sea>litterature; sea>ocean; sea>oil; sea>opera; sea>oxygen; sea>penguin; sea>poetry; sea>port; sea>protagonist; sea>reptile; sea>river; sea>robot; sea>sailing; sea>salmon; sea>sand; sea>science fiction; sea>silver; sea>skeleton; sea>species; sea>sun; sea>surfing; sea>symbol; sea>theatre; sea>tide; sea>transport; sea>tuna; sea>war; sea>whale; sea>virus; season>astronomy; season>autumn; season>calendar; season>climate; season>data; season>daylight; season>definition; season>diagram; season>earth; season>ecology; season>month; season>noon; season>ocean; season>rain; season>snow; season>summer; season>sun; season>sunlight; season>tornado; season>weather; season>wind; season>winter; season>year; seat>bench; seat>chair; seat>saddle; seat>throne; second>clock; second>day; second>earth; second>hour; second>minute; second>time; secondary school>college; secondary school>geography; secondary school>history; secondary school>institution; secondary school>primary school; secondary school>science; secondary school>university; secretary>economics; secretary>receptionist; secretary>university; sector>area; sector>region; security>advertisement; security>burglar; security>information; security>insecurity; security>intruder; security>police; security>risk; security>safety; security>threat; security>>window; seed>animal; seed>ant; seed>apple; seed>bean; seed>bird; seed>cereal; seed>cherry; seed>coconut; seed>cooking; seed>cotton; seed>digestion; seed>fish; seed>flower; seed>forest; seed>fruit; seed>light; seed>mammal; seed>oak; seed>pea; seed>peach; seed>peanut; seed>pine; seed>plant; seed>potato; seed>protein; seed>rain; seed>reproduction; seed>reptile; seed>snow; seed>spice; selection>evolution; selection>genetics; self>consciousness; self>individual; self>sin; self>assurance>self-confidence; self-



awareness>artificial intelligence; self-awareness>confidence; self-awareness>consciousness; self-awareness>elephant; self-awareness>intelligence; self-awareness>person; self-awareness>reality; self-awareness>reasoning; self-awareness>science fiction; self-awareness>scientist; self-awareness>soul; self-confidence>confidence; self-confidence>psychology; self-confidence>self-esteem; self-confidence>vanity; self-control>emotion; self-control>psychology; self-esteem>acceptance; self-esteem>animal; self-esteem>biology; self-esteem>chemistry; self-esteem>creativity; self-esteem>education; self-esteem>emotion; self-esteem>experiment; self-esteem>feeling; self-esteem>happiness; self-esteem>love; self-esteem>measurement; self-esteem>perception; self-esteem>person; self-esteem>pride; self-esteem>psychology; self-esteem>self-awareness; self-esteem>self-confidence; self-esteem>sense; self-esteem>shame; self-esteem>shyness; self-esteem>teaching; self-esteem>economy; selfishness>empathy; selfishness>generosity; selfishness>philosophy; selfishness>psychology; selfishness>religion; self-respect>self-esteem; semicolon>clause; semicolon>comma; semicolon>exclamation mark; semicolon>full stop; semicolon>punctuation; semicolon>question mark; semicolon>word; seminar>debate; seminar>lecture; seminar>university; sensation>sense; sense>attention; sense>bat; sense>bee; sense>bird; sense>blindness; sense>blood; sense>communication; sense>dolphin; sense>drug; sense>illusion; sense>insect; sense>light; sense>pain; sense>perception; sense>pressure; sense>psychologist; sense>reptile; sense>shark; sense>skin; sense>snake; sense>sound; sense>sweet; sense>taste; sense>throat; sense>time; sense>tongue; sense>touch; sensibility>emotion; sentiment>emotion; sentiment>feeling; september>autumn; september>day; september>month; september>school; september>year; sequence>bit; sequence>uncountable; series>episode; series>sequence; series>serial; series>species; set>gang; set>jargon; set>onion; set>potato; set>setting; set>tennis; setback>problem; setting>classroom; sewing>archaeology; sewing>bone; sewing>clothing; sewing>computer; sewing>craft; sewing>fashion; sewing>fur; sewing>hobby; sewing>leather; sewing>pin; sewing>sailing; sewing>vein; sex>ant; sex>bird; sex>dna; sex>evolution; sex>female; sex>fish; sex>flower; sex>genetics; sex>human; sex>insect; sex>male; sex>mammal; sex>mushroom; sex>pine; sex>reptile; sex>seed; sex>species; shade>mud; shade>sunglasses; shadow>aircraft; shadow>dimension; shadow>earth; shadow>ghost; shadow>light; shadow>shade; shadow>space; shadow>steam; shadow>sun; shadow>wind; shame>blame; shame>contempt; shame>culture; shame>embarrassment; shame>emotion; shame>humility; shame>punishment; shampoo>acid; shampoo>coconut; shampoo>dirty; shampoo>fragrance; shampoo>hair; shampoo>infant; shampoo>irritation; shampoo>lemon; shampoo>olive; shampoo>peanut; shampoo>rice; shampoo>soap; shampoo>straw; shampoo>surgery; shampoo>water; shampoo>vinegar; shape>circle; shape>curve; shape>dimension; shape>sphere; shape>square; shark>animal; shark>arm; shark>blood; shark>cancer; shark>crystal; shark>earth; shark>eye; shark>fish; shark>god; shark>hair; shark>heart; shark>jaw; shark>kidney; shark>leather; shark>mammal; shark>muscle; shark>nose; shark>occur; shark>offspring; shark>oxygen; shark>protein; shark>pupils; shark>skate; shark>skeleton; shark>status symbol; shark>supermarket; shark>tail; shed>aluminium; shed>bam; shed>farm; shed>gardening; shed>hobby; shed>jazz; shed>plastic; shed>tool; shed>tunnel; shed>wood; shed>workshop; sheep>abortion; sheep>adaptation; sheep>agriculture; sheep>animal; sheep>antibiotic; sheep>beef; sheep>carpet; sheep>copper; sheep>dialect; sheep>genetics; sheep>goat; sheep>grass; sheep>idiom; sheep>lip; sheep>mammal; sheep>metaphor; sheep>pig; sheep>reproduction; sheep>saint; sheep>tongue; sheep>vaccination; sheep>weed; sheep>virus; sheep>wool; sheep>worm; sheet>paper; sheet>video game; shelter>homelessness; shield>arrow; shield>circle; shield>electronics; shield>leather; shield>metal; shield>police; shield>sword; shield>wood; ship>anchor; ship>boat; ship>cancer; ship>cargo; ship>circle; ship>crab; ship>density; ship>engineer; ship>ferry; ship>fishing; ship>formula; ship>fruit; ship>genetics; ship>globalization; ship>gold; ship>grass; ship>historian; ship>immune system; ship>jail; ship>lake; ship>meat; ship>navy; ship>ocean; ship>port; ship>railway; ship>recycling; ship>river; ship>sail; ship>sailing; ship>sailor; ship>salmon; ship>scrap; ship>sea; ship>strap; ship>weather; ship>wheat; ship>wind; shirt>button; shirt>collar; shirt>dress; shirt>infant; shirt>jacket; shirt>pocket; shirt>silk; shirt>sleeve; shirt>sleeve; shirt>socialist; shirt>sweater; shirt>sweatshirt; shirt>trousers; shirt>t-shirt; shirt>waist; shirt>vest; shirt>wool; shoe>ankle; shoe>archaeologist; shoe>baseball; shoe>basketball; shoe>blister; shoe>bone; shoe>boot; shoe>civilization; shoe>climate; shoe>construction; shoe>copper; shoe>cotton; shoe>culture; shoe>dance; shoe>dancing; shoe>design; shoe>dog; shoe>elephant; shoe>fashion; shoe>flood; shoe>friction; shoe>glue; shoe>golf; shoe>heel; shoe>hip; shoe>horse; shoe>human; shoe>hunting; shoe>ice; shoe>ice cream; shoe>knee; shoe>leather; shoe>marathon; shoe>metal; shoe>metal; shoe>mining; shoe>mosque; shoe>museum; shoe>peasant; shoe>plastic; shoe>police; shoe>revenue; shoe>rice; shoe>rubber; shoe>running; shoe>sandal; shoe>skateboarding; shoe>ski; shoe>skiing; shoe>slavery; shoe>snow; shoe>status symbol; shoe>steel; shoe>turkey; shoe>uniform; shoe>water; shoe>wood; shooting>combat; shooting>crime; shooting>hunting; shooting>missile; shooting>rocket; shooting>weapon; shop>market; shop>retail; shop>shopping; shop>workshop; shopkeeper>management; shopping>ad; shopping>brand; shopping>business; shopping>department store; shopping>disposable income; shopping>leisure; shopping>logo; shopping>marketing; shopping>negotiation; shopping>pharmacy; shopping>price; shopping>religion; shopping>retail; shopping>supermarket; shopping>trade; shore>beach; shore>coast; shore>erosion; shore>geology; shore>lake; shore>ocean; shore>sea; shore>soil; shorts>basketball; shorts>dress; shorts>garment; shorts>jeans; shorts>pocket; shorts>skirt; shorts>sport; shorts>trousers; shot>shooting; shoulder>bat; shoulder>joint; shoulder>pain; show>concert; show>theatre; shower>bathroom; shower>curtain; shower>door; shower>efficiency; shower>hygiene; shower>shampoo; shower>soap; shower>swimming pool; shower>waterfall; shuttle>public transport; shyness>aggression; shyness>anxiety; shyness>child; shyness>conversation; shyness>discomfort; shyness>family; shyness>fear; shyness>feeling; shyness>gene; shyness>hypothesis; shyness>panic; shyness>pregnancy; shyness>proximity; shyness>psychology; shyness>self-confidence; sibling>aggression; sibling>cousin; sibling>dna; sibling>father; sibling>hostility; sibling>inheritance; sibling>love; sibling>mother; sickness>disease; sickness>illness; side effect>drug; side effect>medicine; side effect>pain; side effect>x-ray; side>slavery; side>turkey; sightseeing>tourism; sign>biology; sign>coincidence; sign>communication; sign>flag; sign>full stop; sign>gesture; sign>icon; sign>indication; sign>language; sign>logic; sign>medicine; sign>notice; sign>people; sign>philosophy; sign>poetry; sign>religion; sign>science; sign>signature; sign>symbol; sign>symptom; sign>thunder; signal>telecommunications; signal>traffic light; silence>anger; silence>communication; silence>composer; silence>debate; silence>emotion; silence>mobile phone; silence>piano; silence>sound; silence>speech; silk>angle; silk>ant; silk>bee; silk>carpet; silk>dress; silk>electricity; silk>fibre; silk>fly; silk>glue; silk>light; silk>monopoly; silk>parachute; silk>protein; silk>shirt; silk>spider; silk>tobacco; silk>trade; silk>triangle; silk>turkey; silk>wasp; silver>aluminium; silver>bacteria; silver>brass; silver>carbon; silver>coin; silver>concentration; silver>copper; silver>cutlery; silver>diamond; silver>explosive; silver>female; silver>fiction; silver>gold; silver>hammer; silver>infection; silver>iron; silver>lead; silver>metal; silver>mirror; silver>myth; silver>ozone; silver>planet; silver>salt; silver>silk; silver>steel; silver>tea; silver>lin; silver>wine; simplicity>beauty; simplicity>complexity; simplicity>elegance; simplicity>truth; simplification>validity; simulation>aircraft; simulation>biology; simulation>chemistry; simulation>economics; simulation>education; simulation>engineering; simulation>experiment; simulation>film; simulation>finance; simulation>function; simulation>lie; simulation>physics; simulation>prediction; simulation>risk; simulation>scenario; simulation>software; simulation>statistics; simulation>technology; simulation>television; simulation>terrorism; simulation>training; simulation>truth; simulation>video game; simulation>virtual reality; sin>blame; sin>evil; sin>heaven; sin>hell; sin>vanity; sincerity>honesty; sincerity>irony; sincerity>virtue; singer>singing; singing>audition; singing>bird; singing>chest; singing>choir; singing>composer; singing>consonant; singing>culture; singing>dolphin; singing>ear; singing>harmony; singing>hip-hop; singing>human; singing>immune system; singing>jazz; singing>lip; singing>lyrics; singing>melody; singing>microphone; singing>music; singing>neck; singing>opera; singing>rhyme; singing>rhythm; singing>security; singing>song; singing>speech; singing>spring; singing>tongue; singing>whale; singing>vowel; single>slang; sink>bathroom; sink>concrete; sink>copper; sink>flower; sink>frying pan; sink>glass; sink>kitchen; sink>noise; sink>plastic; sink>soap; sink>steel; sink>wood; sir>ambassador; sir>inspector; sir>lady; sir>madam; sir>police; sir>professor; sir>slang; siren>song; sister>sibling; sister-in-law>wife; site>construction; site>website; sitting room>living room; size>area; size>dimension; size>height; size>length; size>measurement; size>statistics; size>width; size>volume; skin>animal; skateboard>skateboarding; skateboard>turn; skateboarding>aluminium; skateboarding>bruise; skateboarding>profession; skateboarding>skateboard; skateboarding>surfing; skateboarding>transportation; skating>ice skating; skating>skateboarding; skeleton>adaptation; skeleton>animal; skeleton>ant; skeleton>beak; skeleton>bone; skeleton>coral; skeleton>ear; skeleton>elephant; skeleton>fish; skeleton>flight; skeleton>horse; skeleton>human; skeleton>infant; skeleton>insect; skeleton>jaw; skeleton>muscle; skeleton>nerve; skeleton>nose; skeleton>shark; skeleton>structure; skeleton>tongue; ski>skiing; ski>snowboarding; skiing>ski; skiing>snow; skiing>snowboarding; skill>baker; skill>economy; skill>empathy; skill>energy; skill>language; skill>leadership; skill>learning; skill>motivation; skill>respect; skill>self; skill>teamwork; skill>technology; skill>lime; skin>animal; skin>bacteria; skin>bird; skin>blood; skin>body; skin>bone; skin>carbon dioxide; skin>cattle; skin>clothing; skin>cow; skin>fat; skin>feather; skin>fish; skin>frog; skin>fur; skin>goat; skin>hair; skin>heat; skin>horse; skin>injury; skin>leather; skin>mammal; skin>muscle; skin>nerves; skin>oxygen; skin>pig; skin>poison; skin>pressure; skin>protein; skin>repair; skin>reptile; skin>scar; skin>sheep; skin>skull; skin>sweat; skin>temperature; skin>touch; skin>water; skirt>culture; skirt>denim; skirt>fashion; skirt>garment; skirt>jeans; skirt>leather; skirt>leg; skirt>man; skirt>trousers; skirt>t-shirt; skirt>underwear; skirt>waist; skirt>woman; skull>ancestor; skull>animal; skull>bird; skull>bone; skull>brain; skull>elephant; skull>face; skull>head; skull>jaw; skull>lion; skull>mammal; skull>mouse; skull>shark; skull>skeleton; sky>agriculture; sky>air; sky>aircraft; sky>astronomy; sky>atmosphere; sky>bat; sky>bird; sky>blue; sky>calendar; sky>city; sky>cloud; sky>dawn; sky>daylight; sky>earth; sky>flight; sky>fog; sky>green; sky>horizon; sky>human; sky>insect; sky>legend; sky>lightning; sky>moonlight; sky>night; sky>ocean; sky>planet; sky>plant; sky>rain; sky>rainbow; sky>seed; sky>shadow; sky>smog; sky>species; sky>star; sky>storm; sky>sun; sky>sunlight; sky>sunrise; sky>sunset; sky>thunder; sky>thunderstorm; sky>weather; sky>wind; slang>crime; slang>crowd; slang>dialect; slang>jargon; slang>language; slang>musician; slang>sex; slang>violence; slang>word; slap>flight; slap>mobile phone; slap>slang; slap>wrist; slaughter>massacre; slaughter>murder; slave>slavery; slavery>adoption; slavery>culture; slavery>human rights; slavery>property; slavery>tax; sleep>adolescent; sleep>alarm clock; sleep>bed; sleep>consciousness; sleep>dolphin; sleep>immune system; sleep>insomnia; sleep>memory; sleep>narrative; sleep>reasoning; sleep>tobacco; sleeve>arm; sleeve>garment; sleeve>ribbon; sleeve>shoulder; sleeve>wedding; slogan>phrase; slope>curve; slope>geography; slope>road; slot>castle; smile>amusement; smile>animal; smile>anxiety; smile>ball; smile>dishonesty; smile>embarrassment; smile>emotion; smile>fear; smile>frown; smile>happiness; smile>human; smile>laughter; smile>muscle; smile>pleasure; smile>psychology; smog>carbon monoxide; smog>coal; smog>flu; smog>fog; smog>ozone; smog>smoke; smog>aluminium; smog>smoke; smog>cancer; smog>candle; smog>carbon; smog>carbon dioxide; smog>carbon monoxide; smog>cloud; smog>copper; smog>death; smog>dust; smog>fire; smog>firefighter; smog>fireplace; smog>fuel; smog>gas; smog>iron; smog>lead; smog>liquid; smog>lung; smog>mist; smog>oil; smog>plastic; smog>poison; smog>smog; smog>smoking; smog>toast; smog>tobacco; smog>wood; smog>smoke; smog>smoker; smog>smoking; smog>carbon monoxide; smog>cigarette; smog>jazz; smog>lighter; smog>match; smog>tobacco; snack>attention; snack>cheese; snack>food; snack>fruit; snack>meal; snack>meat; snack>obesity; snack>seed; snack>sugar; snack>vegetable; snack>vitamin; snake>brass; snake>chicken; snake>digestion; snake>dinosaur; snake>evil; snake>feather; snake>jaw; snake>lung; snake>medicine; snake>mouth; snake>protein; snake>reptile; snake>skeleton; snake>skull; snake>species; snake>worm; snob>advertising; snob>beauty; snob>education; snob>intellect; snob>nationality; snob>pride; snob>wealth; snow>agriculture; snow>carrot; snow>cloud; snow>concrete; snow>crystal; snow>fall; snow>frost; snow>hall; snow>ice; snow>landscape; snow>light; snow>mountain; snow>photography; snow>pressure; snow>river; snow>slat; snow>ski; snow>skiing; snow>snowboarding; snow>space; snow>spectrum; snow>summer; snow>sunlight; snow>water; snow>wind; snowboard>carbon; snowboard>skateboarding; snowboard>ski; snowboard>snowboarding; snowboarding>skateboarding; snowboarding>skiing; snowboarding>snowboard; snowboarding>surfing; soap opera>abortion; soap opera>adoption; soap opera>episode; soap opera>fantasy; soap opera>magazine; soap opera>murder; soap opera>rape; soap opera>soap; soap opera>theft; soap opera>trilogy; soap opera>twin; soap>advertising; soap>aluminium; soap>dust; soap>hotel; soap>hygiene; soap>sacrifice; soap>sand; soap>silver; soap>toothpaste; soap>water; soap>wire; soap>wool; socialism>agriculture; socialism>authority; socialism>capitalism; socialism>hierarchy; socialism>human rights; socialism>interest; socialism>materialist; socialism>money; socialism>poverty; socialism>rebellion; socialism>republic; socialism>socialist; socialist>socialism; society>agriculture; society>artificial intelligence; society>business; society>capitalism; society>civilization; society>commerce; society>community; society>cooperation; society>culture; society>education; society>geography; society>government; society>hierarchy; society>history; society>industry; society>infrastructure; society>institution; society>investor; society>language; society>leadership; society>organization; society>religion; society>technology; society>trade; society>tribe; society>wealth; sock>boot; sock>cloth; sock>clothing; sock>cotton; sock>foot; sock>glove; sock>linen; sock>shoe; sock>silk; sock>stocking; sock>sweat; sock>wool; soft drink>acid; soft drink>bottle; soft drink>carbon dioxide; soft drink>cola; soft drink>erosion; soft drink>lemonade; soft drink>milk; soft drink>mineral water; soft drink>obesity; soft drink>sugar; soft drink>supermarket; soft drink>tea; soft drink>water; software>concept; software>data; software>hard drive; software>information; software>logic; software>programmer; software>spreadsheet; software>television; software>video game; soil>aluminium; soil>atmosphere; soil>bacteria; soil>desert; soil>dirty; soil>drought; soil>earth; soil>erosion; soil>fat; soil>geology; soil>iron; soil>lead; soil>oxygen; soil>salt; soil>sand; soil>solution; soil>virus; soldier>army; soldier>endurance; soldier>police officer; soldier>profession; solicitor>advocate; solicitor>court; solicitor>lawyer; solicitor>salesman; solidarity>tribe; solitude>anxiety; solitude>creativity; solitude>illusion; solitude>loneliness; solitude>pirate; solitude>privacy; solitude>time; solution>air; solution>bronze; solution>carbon dioxide; solution>chemistry; solution>concentration; solution>gas; solution>gold; solution>light; solution>liquid; solution>mixture; solution>oil; solution>oxygen; solution>pressure; solution>salt; solution>steel; solution>sugar; solution>temperature; solution>water; son>boy; son>daughter; son>family; son>inheritance; son>law; son>male; son>man; son>parent; son>reproduction; song>author; song>choir; song>composer; song>concert; song>music; song>opera; song>orchestra; song>piano; song>poetry; song>radio; song>rhythm; song>singer; song>singing; soul>angel; soul>consciousness; soul>disability; soul>dream; soul>emotion; soul>essence; soul>heart; soul>heaven; soul>hell; soul>intelligence; soul>life;

soul>materialism; soul>matter; soul>mind; soul>motivation; soul>paradise; soul>psychologist; soul>psychology; soul>reason; soul>self; soul>self-awareness; soul>sense; soul>spirit; sound>air; sound>atmosphere; sound>bird; sound>communication; sound>density; sound>drum; sound>ear; sound>earth; sound>earthquake; sound>fire; sound>frog; sound>gas; sound>human; sound>liquid; sound>mammal; sound>microphone; sound>music; sound>pressure; sound>radio; sound>rain; sound>ratio; sound>sense; sound>species; sound>steel; sound>telephone; sound>temperature; sound>water; sound>wave; sound>wind; soundtrack>album; soundtrack>book; soundtrack>film; soundtrack>music; soundtrack>science fiction; soundtrack>video game; soup>alphabet; soup>bean; soup>beef; soup>bread; soup>butter; soup>carrot; soup>cheese; soup>chicken; soup>coconut; soup>cod; soup>crab; soup>cucumber; soup>dessert; soup>fish; soup>flour; soup>food; soup>grain; soup>immigration; soup>juice; soup>leek; soup>lemon; soup>liquid; soup>meat; soup>milk; soup>mushroom; soup>onion; soup>pasta; soup>peanut; soup>pineapple; soup>potato; soup>pottery; soup>refugee; soup>restaurant; soup>rice; soup>ritual; soup>sausage; soup>spice; soup>tomato; soup>turkey; soup>water; soup>vegetable; soup>vinegar; soup>yogurt; south>adjective; south>adverb; south>earth; south>east; south>geography; south>map; south>north; south>noun; south>west; souvenir>clothing; souvenir>gift; souvenir>hat; souvenir>memory; souvenir>mug; souvenir>notebook; souvenir>pin; souvenir>postcard; souvenir>poster; souvenir>spoon; souvenir>tourism; souvenir>t-shirt; space>architecture; space>bucket; space>circle; space>dimension; space>distance; space>earth; space>experiment; space>farming; space>force; space>geography; space>hunting; space>knowledge; space>measurement; space>metre; space>observation; space>ownership; space>perception; space>philosopher; space>physics; space>property; space>psychology; space>radio; space>second; space>spectrum; space>sphere; space>surface; space>temperature; space>time; space>water; spade>beach; spade>blade; spade>gardening; spade>tool; spam>cholesterol; spam>protein; spam>vitamin; spark>electrician; specialist>expert; species>animal; species>bacteria; species>biology; species>bird; species>deer; species>dna; species>essence; species>fish; species>gene; species>genetics; species>giraffe; species>god; species>human; species>insect; species>life; species>lion; species>mammal; species>offspring; species>pig; species>plant; species>reproduction; species>reptile; spectrum>ghost; spectrum>rainbow; speculation>currency; speculation>investor; speculation>risk; speculation>stock; speech>brain; speech>cancer; speech>consonant; speech>culture; speech>human; speech>language; speech>lung; speech>name; speech>nerve; speech>psychologist; speech>psychology; speech>singing; speech>speculation; speech>vocabulary; speech>vowel; speed>aircraft; speed>bullet; speed>distance; speed>earth; speed>length; speed>matter; speed>metre; speed>planet; speed>slope; speed>time; speed>walk; spelling>word; spelling>writing; sphere>angle; sphere>ball; sphere>circle; sphere>dimension; sphere>earth; sphere>kilogram; sphere>volume; spice>antibiotic; spice>bark; spice>fruit; spice>garlic; spice>herb; spice>leaf; spice>perfume; spice>root; spice>salt; spice>seed; spice>species; spider>ant; spider>banana; spider>bee; spider>blood; spider>goat; spider>habitat; spider>insect; spider>instinct; spider>kidney; spider>mammal; spider>milk; spider>momentum; spider>oxygene; spider>parachute; spider>plant; spider>predator; spider>protein; spider>sex; spider>silk; spider>space; spider>stroke; spider>taste; spider>wasp; spider>virus; spinach>broccoli; spinach>copper; spinach>flower; spinach>fruit; spinach>iron; spinach>leaf; spinach>plant; spinach>protein; spinach>seed; spirit>angel; spirit>belief; spirit>blood; spirit>body; spirit>breath; spirit>consciousness; spirit>essence; spirit>existence; spirit>experience; spirit>force; spirit>ghost; spirit>god; spirit>hierarchy; spirit>intellect; spirit>intelligence; spirit>law; spirit>life; spirit>mind; spirit>monster; spirit>personality; spirit>psychology; spirit>religion; spirit>soul; spirit>writing; spite>economy; spite>psychology; spokesman>spokesperson; spokesperson>journalism; spokesperson>president; spoon>brass; spoon>cutlery; spoon>diamond; spoon>fork; spoon>hammer; spoon>ice cream; spoon>liquid; spoon>rice; spoon>silver; spoon>soup; spoon>sugar; spoon>tin; sport>boxing; sport>chess; sport>childhood; sport>competition; sport>cycling; sport>education; sport>gambling; sport>illustration; sport>salary; sport>sponsorship; sport>television; sport>tennis; sport>wage; spouse>bride; spouse>gender; spouse>husband; spouse>marriage; spouse>wife; spread>spreadsheet; spreadsheet>asset; spreadsheet>calculation; spreadsheet>chart; spreadsheet>currency; spreadsheet>data; spreadsheet>database; spreadsheet>error; spreadsheet>exchange rate; spreadsheet>finance; spreadsheet>formula; spreadsheet>fraud; spreadsheet>logic; spreadsheet>percentage; spreadsheet>professor; spreadsheet>risk; spreadsheet>space; spreadsheet>army; squad>soldier; square>angle; square>area; square>rectangle; stable>barn; stable>building; stable>cow; stable>horse; stadium>baseball; stadium>basketball; stadium>concert; stadium>cricket; stadium>sport; stadium>steel; stadium>turkey; staff>employment; stage>feeling; stage>theatre; stain>air; stain>bacteria; stain>bronze; stain>heat; stain>ironing; stain>laundry; stain>paint; stain>wood; staircase>stairs; stairs>air; stairs>balcony; stairs>child; stairs>escalator; stairs>fire; stairs>ladder; stairs>safety; stairs>specification; stairs>wheelchair; stamina>endurance; stand>stadium; star>carbon; star>civilization; star>concentration; star>density; star>earth; star>energy; star>fuel; star>iron; star>kilogram; star>kilometre; star>light; star>metre; star>oxygene; star>photograph; star>planet; star>radiation; star>regulation; star>second; star>sun; star>x-ray; starvation>death; starvation>famine; starvation>farmer; starvation>fat; starvation>food; starvation>hunger; starvation>muscle; starvation>poverty; starvation>seed; starvation>vitamin; state>government; station>bus station; station>police station; station>post office; statistic>data; statistic>statistics; statistics>bias; statistics>chemistry; statistics>computer; statistics>data; statistics>experiment; statistics>geography; statistics>prediction; statistics>research; statue>life; statue>memorial; statue>monument; statue>sculpture; status symbol>book; status symbol>cigarette; status symbol>commerce; status symbol>fashion; status symbol>jeans; status symbol>mansion; status symbol>status; status symbol>turkey; status>city; status>status symbol; steak>grill; steak>meat; steak>salmon; steak>sheep; steak>tree; steam>agriculture; steam>air; steam>electricity; steam>mist; steam>water; steam>volume; steel>aluminium; steel>bridge; steel>building; steel>carbon; steel>clock; steel>construction; steel>copper; steel>cutlery; steel>density; steel>earth; steel>iron; steel>knife; steel>mining; steel>oil; steel>oxygene; steel>plastic; steel>scrap; steel>sculpture; steel>ship; steel>surgery; steel>tin; steel>tool; steel>train; steel>washing machine; steel>water; steel>wire; steering wheel>aircraft; steering wheel>boat; steering wheel>button; steering wheel>height; steering wheel>remote control; steering wheel>ship; steering wheel>steel; steering wheel>vehicle; step>walk; stereotype>advertising; stereotype>art; stereotype>chess; stereotype>cliché; stereotype>competition; stereotype>crime; stereotype>discrimination; stereotype>disposition; stereotype>feedback; stereotype>gang; stereotype>gun; stereotype>literature; stereotype>mobile phone; stereotype>motivation; stereotype>narrative; stereotype>obesity; stereotype>obesity; stereotype>prejudice; stereotype>reality; stereotype>recruitment; stereotype>self-esteem; stereotype>sympathy; stick>branch; stimulus>concept; stimulus>perception; stock market>auction; stock market>gambling; stock market>investment; stock market>profession; stock market>stock; stock>bank; stock>business; stock>copper; stock>corporation; stock>debt; stock>individual; stock>investment; stock>loan; stock>monopoly; stock>ownership; stock>stock market; stock>volunteer; stocking>analogy; stocking>clothing; stocking>cotton; stocking>linen; stocking>silk; stocking>skirt; stocking>sock; stocking>lights; stocking>wool; stomach>animal; stomach>aspirin; stomach>bacteria; stomach>bird; stomach>brain; stomach>digestion; stomach>fat; stomach>insect; stomach>mammal; stomach>muscle; stomach>protein; stop>bus stop; stop>full stop; storage>warehouse; store>retail; store>apartment; store>architect; store>basement; store>building; store>ceiling; store>height; store>house; store>loft; store>parking; store>roof; store>soil; store>street; store>agriculture; store>carbon dioxide; store>desert; store>disaster; store>dust; store>earth; store>god; store>hall; store>lightning; store>ocean; store>rain; store>rainforest; store>salt; store>ski; store>skiing; store>snow; store>snowboarding; store>soil; store>thunder; store>thunderstorm; store>tornado; store>wave; store>wind; store>narrative; store>soap opera; store>storey; strand>beach; strap>baggage; strap>cloth; strap>clothing; strap>fabric; strap>leather; strap>paper; strap>plastic; strap>ribbon; strap>rope; strap>saddle; strap>steel; strap>watch; straw>wrist; strategy>plan; straw>cereal; straw>concrete; straw>construction; straw>cucumber; straw>grain; straw>mushroom; straw>paper; straw>rice; straw>shoe; straw>strawberry; straw>wheat; strawberry>apple; strawberry>berry; strawberry>chocolate; strawberry>cream; strawberry>dessert; strawberry>fruit; strawberry>ice cream; strawberry>pie; strawberry>plant; strawberry>sugar; strawberry>turkey; strawberry>world; stream>cave; stream>desert; stream>erosion; stream>fish; stream>floor; stream>habitat; stream>lake; stream>ocean; stream>river; stream>snow; stream>thunderstorm; stream>waterfall; stream>wildlife; street>brick; street>building; street>café; street>civilization; street>commerce; street>concrete; street>culture; street>economics; street>grass; street>motorway; street>nation; street>parking; street>pedestrian; street>restaurant; street>road; street>soil; street>transport; street>tree; strength>couage; strength>persuasion; strength>willpower; strength>virtue; stretch>baseball; strike>cricket; strike>washing machine; string>kite; string>rope; strip>runway; stroke>anxiety; stroke>aspirin; stroke>bacteria; stroke>brain; stroke>cancer; stroke>fat; stroke>headache; stroke>heart; stroke>obesity; stroke>pain; stroke>pharmacist; stroke>self-esteem; stroke>skin; stroke>virtual reality; structure>architecture; structure>art; structure>atom; structure>biology; structure>building; structure>column; structure>construction; structure>data; structure>engineering; structure>hierarchy; structure>infrastructure; structure>observation; structure>organization; structure>pattern; structure>philosophy; structure>population; structure>science; structure>snow; structure>system; student>album; student>college; student>learning; student>lecture; student>politician; student>primary school; student>secondary school; student>tutor; student>university; studio>animation; studio>architecture; studio>artist; studio>corporation; studio>dancer; studio>employee; studio>music; studio>painting; studio>photography; studio>pottery; studio>radio; studio>sculpture; studio>university; studio>workshop; study>education; study>experiment; study>research; stupidity>comedy; stupidity>common sense; stupidity>factory; stupidity>genius; stupidity>idiot; stupidity>ignorance; stupidity>intelligence; stupidity>psychology; stupidity>reason; stupidity>understanding; stupidity>wit; style>design; style>fashion; substance>drug; substance>matter; suburb>apartment; suburb>storey; suburb>tram; success>failure; success>goal; successor>success; sufferer>suffering; suffering>abuse; suffering>anger; suffering>anxiety; suffering>confusion; suffering>contempt; suffering>cruelty; suffering>disappointment; suffering>disgust; suffering>doubt; suffering>embarrassment; suffering>empathy; suffering>envy; suffering>evil; suffering>fear; suffering>frustration; suffering>grief; suffering>happiness; suffering>hate; suffering>health care; suffering>human rights; suffering>hunger; suffering>hygiene; suffering>insurance; suffering>irritation; suffering>jealousy; suffering>loneliness; suffering>medicine; suffering>mercy; suffering>pain; suffering>panic; suffering>pity; suffering>pleasure; suffering>punishment; suffering>remorse; suffering>resentment; suffering>sadness; suffering>safety; suffering>security; suffering>shame; suffering>suicide; suffering>sympathy; suffering>terrorism; suffering>thirst; suffering>torture; suffering>war; suffering>violence; suffix>adjective; suffix>adverb; suffix>comparative; suffix>plural; suffix>prefix; suffix>superlative; sugar>alcohol; sugar>ant; sugar>dessert; sugar>dna; sugar>honey; sugar>ice cream; sugar>junk food; sugar>obesity; sugar>slavery; sugar>water; suggestion>psychology; suicide>adaptation; suicide>death; suicide>debt; suicide>dna; suicide>grief; suicide>homelessness; suicide>immune system; suicide>insomnia; suicide>liberty; suicide>patient; suicide>peer pressure; suicide>prejudice; suicide>sin; suicide>war; suitcase>linen; suitcase>luggage; suitcase>wheel; suitcase>wool; summer>autumn; summer>baseball; summer>beach; summer>cricket; summer>hail; summer>rain; summer>season; summer>skateboarding; summer>surfing; summer>television; summer>tennis; summer>thunderstorm; summer>turkey; summer>winter; summer>volleyball; summit>erosion; summit>hill; summit>mountain; summit>synonym; sun>air; sun>astronomy; sun>carbon; sun>carbon dioxide; sun>carbon monoxide; sun>earth; sun>energy; sun>gas; sun>gold; sun>green; sun>horizon; sun>iron; sun>light; sun>metre; sun>oxygene; sun>parachute; sun>philosopher; sun>planet; sun>pupil; sun>pyramid; sun>radiation; sun>sky; sun>spectrum; sun>star; sun>sunlight; sun>sunrise; sun>sunset; sun>telescope; sun>theory; sun>wave; sun>week; sun>weight; sun>x-ray; sunday>century; sunday>club; sunday>god; sunday>headquarters; sunday>magazine; sunday>monday; sunday>newspaper; sunday>park; sunday>public transport; sunday>radio; sunday>red; sunday>saturday; sunday>sun; sunday>week; sunglasses>actor; sunglasses>atmosphere; sunglasses>beach; sunglasses>blindness; sunglasses>celebrity; sunglasses>court; sunglasses>film; sunglasses>glass; sunglasses>glasses; sunglasses>gold; sunglasses>hospital; sunglasses>metal; sunglasses>mirror; sunglasses>plastic; sunglasses>slang; sunglasses>sunlight; sunglasses>surfing; sunglasses>windsurfing; sunlight>atmosphere; sunlight>beach; sunlight>cap; sunlight>cloud; sunlight>coal; sunlight>curtain; sunlight>daylight; sunlight>dna; sunlight>earth; sunlight>garden; sunlight>heat; sunlight>helmet; sunlight>horizon; sunlight>leisure; sunlight>light; sunlight>moonlight; sunlight>park; sunlight>parking; sunlight>photography; sunlight>planet; sunlight>season; sunlight>sun; sunlight>sunglasses; sunlight>swimming pool; sunlight>wall; sunrise>dawn; sunrise>day; sunrise>daylight; sunrise>horizon; sunrise>morning; sunrise>night; sunrise>noon; sunrise>spectrum; sunrise>sun; sunrise>sunset; sunset>astronomy; sunset>atmosphere; sunset>dawn; sunset>earth; sunset>east; sunset>horizon; sunset>light; sunset>oxygen; sunset>sun; sunset>sunrise; sunset>west; sunshine>sunlight; superiority>superior; superlative>adjective; superlative>adverb; superlative>comparative; superlative>grammar; superlative>greatness; supermarket>bakery; supermarket>bank; supermarket>book; supermarket>brand; supermarket>bread; supermarket>cereal; supermarket>cigarette; supermarket>clothing; supermarket>coffee; supermarket>country; supermarket>department store; supermarket>fish; supermarket>flower; supermarket>flower; supermarket>food; supermarket>fruit; supermarket>infrastructure; supermarket>juice; supermarket>laundry; supermarket>lottery; supermarket>luggage; supermarket>magazine; supermarket>meat; supermarket>medicine; supermarket>milk; supermarket>newspaper; supermarket>pet; supermarket>petrol station; supermarket>pharmacy; supermarket>produce; supermarket>province; supermarket>rice; supermarket>soft drink; supermarket>suburb; supermarket>sugar; supermarket>tea; supermarket>tobacco; supermarket>toy; supermarket>vegetable; supervision>regulation; supervision>supervisor; supervisor>budget; supervisor>recruitment; supervisor>title; supper>dinner; supper>milk; supplier>manufacturing; support>sympathy; supporter>alphabet; supporter>cathedral; supporter>missile; surface>angle; surface>ball; surface>distance; surface>earth; surface>engineering; surface>physics; surface>sphere; surfing>ocean; surfing>recreation; surfing>shark; surfing>shore; surfing>skateboarding; surfing>snowboarding; surfing>windsurfing; surgeon>dentist; surgeon>dentist; surgeon>medicine; surgeon>mr; surgeon>mrs; surgeon>surgery; surgery>bone; surgery>brain; surgery>dentist; surgery>disease; surgery>hospital; surgery>infection; surgery>injury; surgery>laser; surgery>medication; surgery>medicine; surgery>pain; surgery>patient; surgery>robot; surgery>suffering; surgery>surgeon; surname>hyphen; surname>preposition; surname>synonym; surroundings>energy; surroundings>geography; surroundings>matter; surroundings>proximity; survival>life; suspect>arrest; suspect>crime; suspect>criminal; suspect>judge; suspect>prosecutor; suspense>anxiety; suspense>conflict; suspense>hero; suspense>literature; suspense>mystery; suspense>psychologist; suspense>psychology;

suspense>terror; suspense>waiter; sustainability>agriculture; sustainability>atmosphere; sustainability>capitalism; sustainability>carbon; sustainability>civilization;  
sustainability>climate; sustainability>climate change; sustainability>coal; sustainability>commodity; sustainability>crime; sustainability>earth; sustainability>ecology;  
sustainability>economics; sustainability>economy; sustainability>energy; sustainability>environmentalist; sustainability>extinction; sustainability>fair; sustainability>fat;  
sustainability>food; sustainability>forest; sustainability>fruit; sustainability>global warming; sustainability>industry; sustainability>lake; sustainability>law; sustainability>longevity;  
sustainability>market; sustainability>material; sustainability>meat; sustainability>obesity; sustainability>ocean; sustainability>oxygen; sustainability>population; sustainability>price;  
sustainability>recycling; sustainability>river; sustainability>science; sustainability>society; sustainability>sun; sustainability>technology; sustainability>transport; sustainability>war;  
sustainability>water; sustainability>weather; sustainability>vegetable; sustainability>woodland; swan>animal; swan>bird; swan>duck; swan>extinction; swan>species;  
sweater>button; sweater>cotton; sweater>ice hockey; sweater>jacket; sweater>shirt; sweater>sleeve; sweater>trousers; sweater>t-shirt; sweater>wool; sweater>youth;  
sweatshirt>sweater; swimming pool>bacteria; swimming pool>basement; swimming pool>basketball; swimming pool>beach; swimming pool>circle; swimming pool>concrete;  
swimming pool>department store; swimming pool>disability; swimming pool>disease; swimming pool>diving; swimming pool>fountain; swimming pool>hotel; swimming pool>infant;  
swimming pool>insect; swimming pool>iron; swimming pool>metal; swimming pool>oxygen; swimming pool>ozone; swimming pool>park; swimming pool>plastic; swimming  
pool>pump; swimming pool>recreation; swimming pool>rectangle; swimming pool>skateboarding; swimming pool>supermarket; swimming pool>toddler; swimming pool>toy;  
swimming pool>tv; swimming pool>virus; swimming pool>yard; switch>brass; switch>copper; switch>design; switch>electronics; switch>glass; switch>metal;  
switch>plastic; switch>steel; sword>blade; sword>bronze; sword>combat; sword>copper; sword>god; sword>history; sword>iron; sword>literature; sword>martial art; sword>parade;  
sword>shield; sword>steel; sword>turkey; sword>umbrella; sword>uniform; syllable>consonant; syllable>language; syllable>poetry; syllable>rhymer; syllable>word; syllable>vowel;  
syllabus>communication; syllabus>curriculum; syllabus>education; syllabus>exam; syllabus>grammar; syllabus>professor; syllabus>training; symbol>entity; symbol>history;  
symbol>icon; symbol>idea; symbol>learning; symbol>logo; symbol>punctuation; symbol>uniform; sympathy>empathy; symptom>blindness; symptom>diagnosis; symptom>disease;  
symptom>patient; symptom>rash; synonym>adjective; synonym>adverb; synonym>noun; synonym>preposition; system>concrete; system>culture; system>economics;  
system>engineering; system>institution; system>market; system>person; system>physics; system>property; system>reasoning; system>society; system>structure; table  
tennis>friction; table tennis>gram; table tennis>sport; tablet>notebook; tail>animal; tail>bird; tail>body; tail>cat; tail>deer; tail>dog; tail>emotion; tail>feather; tail>fish; tail>fly;  
tail>kangaroo; tail>lion; tail>mammal; tail>monkey; tail>nerves; tail>predator; tail>reptile; takeover>bank; takeover>consideration; takeover>loan; takeover>majority;  
takeover>management; takeover>merger; tale>narrative; talent>celebrity; talk>conversation; talk>interaction; talk>speech; talk>battle; tank>bomb; tank>bridge;  
tank>deception; tank>electronics; tank>laser; tank>petrol; tank>plastic; tank>railway; tank>system; tank>telescope; taste>acid; taste>alcohol; taste>appetite; taste>banana;  
taste>beer; taste>blood; taste>brain; taste>cheese; taste>coffee; taste>evolution; taste>fat; taste>food; taste>fruit; taste>genetics; taste>grape; taste>lemon; taste>meat;  
taste>medicine; taste>melon; taste>milk; taste>salt; taste>sense; taste>soft drink; taste>sugar; taste>tea; taste>tongue; taste>wine; tax>alcohol; tax>bridge; tax>business;  
tax>canal; tax>capitalism; tax>currency; tax>democracy; tax>economics; tax>euro; tax>fee; tax>health care; tax>inflation; tax>law; tax>liberty; tax>market; tax>peasant;  
tax>pension; tax>petrol; tax>politics; tax>price; tax>property; tax>public transport; tax>recession; tax>road; tax>society; tax>tobacco; tax>trade; tax>wealth; tax>welfare;  
taxpayer>tax; tea>alcohol; tea>aluminium; tea>butter; tea>cancer; tea>coffee; tea>culture; tea>fruit; tea>honey; tea>jam; tea>lemon; tea>mug; tea>obesity; tea>slang; tea>sugar;  
tea>tree; tea>turkey; tea>water; tea>whisky; tea>virus; tea>vitamin; teacher>allegation; teacher>classroom; teacher>college; teacher>curriculum; teacher>discipline;  
teacher>education; teacher>engineer; teacher>euro; teacher>goal; teacher>individual; teacher>knowledge; teacher>lawyer; teacher>lecturer; teacher>priest; teacher>primary  
school; teacher>profession; teacher>professional; teacher>professor; teacher>religion; teacher>retirement; teacher>school; teacher>secondary school; teacher>skill;  
teacher>student; teacher>tutor; teacher>university; teacher>vow; teaching>education; team>animal; team>business; team>chess; team>community; team>complexity;  
team>concept; team>crew; team>dog; team>football; team>game; team>horse; team>management; team>partnership; team>peer pressure; team>project; team>sport;  
team>success; team>system; team>teamwork; teamwork>clothing; teamwork>collaboration; teamwork>health care; teamwork>tea; teaspoon>coffee; teaspoon>cooking;  
teaspoon>cutlery; teaspoon>ice cream; teaspoon>recipe; teaspoon>spoon; teaspoon>tea; technician>artist; technician>manufacturing; technician>mechanic; technician>presenter;  
technician>professional; technician>technology; technician>theory; technician>tool; technician>training; technique>skill; technique>technology; techno>capitalism; techno>disc  
jockey; techno>disco; techno>economy; techno>harmony; techno>hip-hop; techno>paradigm; techno>performance; techno>rhythm; techno>time; technology>agriculture;  
technology>architecture; technology>brass; technology>bronze; technology>chemistry; technology>clock; technology>clothing; technology>communication; technology>computer;  
technology>construction; technology>copper; technology>craft; technology>dolphin; technology>earth; technology>economy; technology>electricity; technology>energy;  
technology>engineering; technology>flight; technology>gold; technology>hierarchy; technology>history; technology>industry; technology>infrastructure; technology>language;  
technology>lead; technology>leisure; technology>machine; technology>manufacturing; technology>medicine; technology>mining; technology>paradigm; technology>physics;  
technology>politician; technology>pollution; technology>radio; technology>safety; technology>satellite; technology>science; technology>scientist; technology>silks; technology>silver;  
technology>society; technology>spoon; technology>steel; technology>system; technology>telephone; technology>television; technology>tool; technology>train;  
technology>transport; technology>transportation; technology>weapon; technology>wheel; technology>wood; telephone>business; telephone>consumer; telephone>invention;  
telephone>microphone; telephone>mobile phone; telephone>radio; telephone>sound; telescope>astronomy; telescope>earth; telescope>glass; telescope>ice; telescope>mirror;  
telescope>radio; telescope>satellite; telescope>trace; telescope>water; telescope>x-ray; television>advertising; television>angle; television>audience; television>copper;  
television>electronics; television>lead; television>news; television>radio; television>science fiction; television>soap opera; telly>television; temper>archaeology;  
temper>atmosphere; temper>season; temper>temperature; temper>time; temperature>atom; temperature>biology; temperature>chemistry; temperature>density;  
temperature>energy; temperature>gas; temperature>geology; temperature>heat; temperature>kilogram; temperature>lightning; temperature>liquid; temperature>physics;  
temperature>protein; temperature>ratio; temperature>speed; temperature>sun; temperature>thermometer; temperature>x-ray; temple>cathedral; temple>chapel; temple>god;  
temple>mosque; temple>prayer; temple>sacrifice; temple>turkey; temple>worship; temptation>advertising; temptation>curiosity; temptation>marketing; temptation>persuasion;  
temptation>religion; temptation>sin; tenderness>affection; tenderness>love; tennis>baseball; tennis>referee; tension>suspense; tent>airport; tent>aluminium; tent>boat;  
tent>camping; tent>campsite; tent>circus; tent>cotton; tent>fire; tent>goat; tent>metal; tent>pole; tent>rubber; tent>sheep; tent>structure; tent>theatre; tent>war;  
tent>wood; terminal>port; terminal>suffix; terms>term; terrace>river; terrace>stream; terror>terrorism; terrorism>assault; terrorism>consensus; terrorism>crime; terrorism>faith;  
terrorism>fear; terrorism>fraud; terrorism>hostage; terrorism>human rights; terrorism>law; terrorism>peace; terrorism>poison; terrorism>politics; terrorism>publicity;  
terrorism>rebellion; terrorism>riot; terrorism>robbery; terrorism>security; terrorism>telecommunications; terrorism>turkey; terrorism>uniform; terrorism>war; terrorism>violence;  
terrorist>terrorism; test>experiment; text>literature; text>textbook; text>evolution; theatre>actor; theatre>audience; theatre>ballet; theatre>collaboration; theatre>composer;  
theatre>culture; theatre>dance; theatre>dialogue; theatre>drama; theatre>fiction; theatre>humour; theatre>institution; theatre>literature; theatre>music; theatre>opera;  
theatre>performance; theatre>poetry; theatre>song; theatre>tragedy; theatre>wine; theft>bycycle; theft>blackmail; theft>burglary; theft>consent; theft>crime; theft>dishonesty;  
theft>fraud; theft>jail; theft>money; theft>property; theft>robbery; theft>synonym; theme>principle; theme>analysis; theory>architecture; theory>art; theory>astronomy;  
theory>biology; theory>chemistry; theory>climate change; theory>disease; theory>economics; theory>education; theory>engineering; theory>evidence; theory>evolution;  
theory>experiment; theory>explanation; theory>fact; theory>film; theory>geology; theory>global warming; theory>hypothesis; theory>idea; theory>literature; theory>logic;  
theory>music; theory>nature; theory>observation; theory>philosophy; theory>physics; theory>politics; theory>prediction; theory>probability; theory>psychology; theory>reason;  
theory>science; theory>statistics; theory>technology; theory>truth; theory>understanding; theory>coaching; theory>cold; theory>cure; theory>drug; theory>education;  
theory>electricity; theory>energy; theory>exercise; theory>food; theory>gene; theory>gold; theory>heat; theory>junk food; theory>light; theory>matter;  
theory>medication; theory>medicine; theory>ozone; theory>radiation; theory>reading; theory>risk; theory>salt; theory>side effect; theory>sleep; theory>smell;  
theory>sound; theory>temperature; theory>vaccine; theory>water; theory>virus; thermometer>aircraft; thermometer>atmosphere; thermometer>fever; thermometer>health  
care; thermometer>heater; thermometer>temperature; thesis>bed; thesis>essay; thesis>intellectual; thesis>professor; thesis>proposition; thesis>research; thesis>university;  
thief>thief; thigh>blood; thigh>bone; thigh>hip; thigh>knee; thigh>muscle; thigh>nerve; thinker>intellectual; thirst>brain; thirst>instinct; thirst>kidney; thirst>salt; thought>artificial  
intelligence; thought>attention; thought>consciousness; thought>goal; thought>human; thought>idea; thought>imagination; thought>individual; thought>mind; thought>philosophy;  
thought>psychology; thought>reasoning; thought>religion; thought>science; thought>sense; thought>society; thought>symptom; threshold>perception; threshold>sense;  
throat>neck; throne>angel; throne>cathedral; throne>emperor; throne>god; throne>music; throne>palace; throne>pie; throne>privilege; throne>religion; throne>slang;  
throne>temple; throne>toilet; thumb>ankle; thumb>bird; thumb>finger; thumb>foot; thumb>hand; thumb>tool; thumb>walk; thunder>aircraft; thunder>explosion; thunder>inquiry;  
thunder>light; thunder>lightning; thunder>pressure; thunder>sound; thunder>temperature; thunder>thunderstorm; thunder>thursday; thunderstorm>air; thunderstorm>carbon  
dioxide; thunderstorm>cloud; thunderstorm>dust; thunderstorm>energy; thunderstorm>fall; thunderstorm>god; thunderstorm>hall; thunderstorm>lightning; thunderstorm>rain;  
thunderstorm>rainforest; thunderstorm>soil; thunderstorm>storm; thunderstorm>summer; thunderstorm>thunder; thunderstorm>tornado; thunderstorm>weather; thunderstorm>wind;  
thursday>calendar; thursday>earth; thursday>friday; thursday>green; thursday>heaven; thursday>saint; thursday>wednesday; tick>animal; tick>blood; tick>mosquito; tick>toddler;  
tick>virus; tide>adaptation; tide>average; tide>coast; tide>global warming; tide>sun; tide>weather; tiger>animal; tiger>bird; tiger>camel; tiger>cattle; tiger>climate change;  
tiger>crocodile; tiger>dna; tiger>dog; tiger>dolphin; tiger>elephant; tiger>extinction; tiger>female; tiger>fish; tiger>flag; tiger>fox; tiger>gene; tiger>habitat; tiger>honey;  
tiger>horse; tiger>lake; tiger>leopard; tiger>lion; tiger>male; tiger>mammal; tiger>monkey; tiger>novel; tiger>polar bear; tiger>pond; tiger>prey; tiger>pup; tiger>reproduction;  
tiger>river; tiger>scientist; tiger>snake; tiger>turkey; tiger>water; tiger>west; tiger>whale; tights>ballet; tights>basketball; tights>cloth; tights>costume; tights>cotton; tights>dance;  
tights>garment; tights>infant; tights>leg; tights>pants; tights>shorts; tights>sock; tights>toddler; tights>uniform; tights>waist; tights>wool; time>astronomy; time>awareness;  
time>calendar; time>century; time>chart; time>clock; time>day; time>decade; time>dimension; time>documentary; time>economics; time>education; time>fiction;  
time>fortnight; time>future; time>generation; time>god; time>history; time>hour; time>industry; time>law; time>light; time>machine; time>measurement; time>millennium;  
time>minute; time>month; time>music; time>noon; time>number; time>perception; time>phenomenon; time>philosophy; time>plan; time>present; time>quantity; time>religion;  
time>result; time>sand; time>season; time>second; time>sequence; time>society; time>space; time>technology; time>television; time>theatre; time>transport;  
time>watch; time>week; time>year; timetable>calendar; timing>time; tin>acid; tin>air; tin>bronze; tin>carbon; tin>copper; tin>crystal; tin>diamond; tin>earth; tin>glass; tin>gold;  
tin>iron; tin>kilogram; tin>lead; tin>metal; tin>oxygen; tin>sun; tin>trade; tin>water; tip>x-ray; title>adjective; title>advocate; title>ambassador; title>aunt; title>brother;  
title>chancellor; title>citizen; title>commander; title>count; title>county; title>delegate; title>emperor; title>empire; title>female; title>gentleman; title>judge; title>king; title>lady;  
title>leadership; title>magistrate; title>male; title>mayor; title>miss; title>mother; title>mr; title>ms; title>nurse; title>official; title>police officer; title>president; title>priest; title>prince;  
title>princess; title>professor; title>realm; title>saint; title>secretary; title>sir; title>sister; title>solicitor; title>uncle; toast>bread; toast>breakfast; toast>butter; toast>fireplace;  
toast>food; toast>fork; toast>heat; toast>jam; toast>oven; tobacco>cancer; tobacco>capitalism; tobacco>cigarette; tobacco>disaster; tobacco>drug; tobacco>evolution;  
tobacco>gardening; tobacco>genetics; tobacco>hall; tobacco>harvest; tobacco>heart; tobacco>heaven; tobacco>herb; tobacco>honey; tobacco>insect; tobacco>liver;  
tobacco>seed; tobacco>stroke; tobacco>tea; tobacco>turkey; tobacco>wasp; today>present; toddler>adjective; toddler>ball; toddler>book; toddler>chair; toddler>childhood;  
toddler>doll; toddler>furniture; toddler>game; toddler>noun; toddler>song; toddler>spoon; toddler>telephone; toddler>vocabulary; toddler>word; toe>animal; toe>cat;  
toe>finger; toe>foot; toe>hand; toe>human; toe>joint; toe>walking; toilet>bullet; toilet>castle; toilet>dialect; toilet>emergency; toilet>pottery; toilet>sink; toilet>train; toilet>video  
game; toilet>wilderness; tomato>acid; tomato>apple; tomato>banana; tomato>berry; tomato>commerce; tomato>cucumber; tomato>dessert; tomato>drink; tomato>festival;  
tomato>flower; tomato>fruit; tomato>garlic; tomato>genetics; tomato>leaf; tomato>main course; tomato>melon; tomato>pasta; tomato>pizza; tomato>potato; tomato>salad;  
tomato>soup; tomato>tobacco; tomato>vegetable; tomb>burial; tomb>cemetery; tomb>saint; ton>cricket; ton>energy; ton>slang; ton>steel; ton>water; ton>volume; tone>note;  
tongue>butterfly; tongue>cat; tongue>cod; tongue>duck; tongue>food; tongue>frog; tongue>human; tongue>language; tongue>memory; tongue>mouth; tongue>nerve;  
tongue>phenomenon; tongue>recollection; tongue>taste; tool>agriculture; tool>animal; tool>archaeology; tool>bird; tool>clock; tool>computer; tool>elephant; tool>glasses;  
tool>glove; tool>goal; tool>hammer; tool>human; tool>knife; tool>lighter; tool>matter; tool>monkey; tool>phone; tool>rocket; tool>ruler; tool>spreadsheet; tool>technology;  
tool>ruck; tool>animal; tool>dolphin; tool>elephant; tool>fish; tool>food; tool>horse; tool>jaw; tool>mammal; tool>mouth; tool>rabbit; tool>reptile; tool>shark;  
tooth>snake; tooth>whale; toothache>pain; toothache>temperature; toothache>tooth; toothache>x-ray; toothbrush>bacteria; toothbrush>bone; toothbrush>dentist;  
toothbrush>feather; toothbrush>salt; toothbrush>tooth; toothbrush>toothpaste; toothbrush>water; toothpaste>food; toothpaste>lead; toothpaste>lemon; toothpaste>pine;



wealth>industrialization; wealth>inheritance; wealth>investment; wealth>leadership; wealth>money; wealth>ownership; wealth>pension; wealth>poverty; wealth>property;  
wealth>resource; wealth>soil; wealth>temple; wealth>war; wealth>word; weapon>aircraft; weapon>bracelet; weapon>copper; weapon>crime; weapon>gun; weapon>helicopter;  
weapon>horse; weapon>hunting; weapon>knife; weapon>missile; weapon>rocket; weapon>sail; weapon>ship; weapon>sword; weapon>tank; weapon>war; weapon>atmosphere;  
weather>building; weather>chemical; weather>climate; weather>climate change; weather>earth; weather>erosion; weather>famine; weather>flood; weather>fog; weather>hail;  
weather>heat; weather>ice; weather>lake; weather>plant; weather>potential; weather>snow; weather>storm; weather>sun; weather>sunlight; weather>thunderstorm;  
weather>tornado; web page>database; web page>image; web page>website; web page>video; webcam>company; webcam>computer; webcam>daycare; webcam>laptop;  
webcam>manufacturing; webcam>microphone; webcam>password; webcam>prison; webcam>time; webcam>web page; webcam>video clip; website>blog; website>celebrity;  
website>computer; website>credit card; website>database; website>document; website>email; website>government; website>image; website>social networking; website>software;  
website>stock market; website>web page; website>webcam; wedding>bride; wedding>ceremony; wedding>culture; wedding>divorce; wedding>god; wedding>groom;  
wedding>judge; wedding>marriage; wedding>mayor; wedding>mosque; wedding>priest; wedding>ritual; wedding>sibling; wedding>veil; wednesday>calendar; wednesday>fish;  
wednesday>meat; wednesday>slang; wednesday>sun; wednesday>thursday; wednesday>tuesday; weed>adaptation; weed>agriculture; weed>crop; weed>garden; weed>grass;  
weed>insect; weed>lawn; weed>park; weed>plant; weed>soil; week>february; week>fortnight; week>month; weekday>friday; weekday>monday; weekday>thursday;  
weekday>timetable; weekday>tuesday; weekday>wednesday; weekday>week; weekday>weekend; vegetable>acid; vegetable>adjective; vegetable>broccoli; vegetable>bulb;  
vegetable>cabbage; vegetable>carrot; vegetable>cereal; vegetable>cooking; vegetable>corn; vegetable>courgette; vegetable>cucumber; vegetable>dessert; vegetable>fat;  
vegetable>fruit; vegetable>garlic; vegetable>leek; vegetable>lettuce; vegetable>market; vegetable>meal; vegetable>mushroom; vegetable>nutrition; vegetable>onion;  
vegetable>peach; vegetable>potato; vegetable>protein; vegetable>purple; vegetable>salt; vegetable>spinach; vegetable>street; vegetable>supermarket; vegetable>tomato;  
vegetable>vitamin; vegetation>desert; vegetation>fire; vegetation>flood; vegetation>hierarchy; vegetation>system; vehicle>aircraft; vehicle>bicycle; vehicle>boat; vehicle>brake;  
vehicle>bus; vehicle>camel; vehicle>friction; vehicle>fuel; vehicle>machine; vehicle>parachute; vehicle>ship; vehicle>train; vehicle>truck; weight>chemistry; weight>ear;  
weight>fluid; weight>force; weight>kilogram; weight>matter; weight>momentum; weight>sun; veil>bride; veil>curtain; veil>face; veil>funeral; veil>mask; veil>priest; veil>sail; veil>sin;  
veil>temple; vein>blood; vein>carbon dioxide; vein>heart; vein>laser; vein>lung; vein>oxygen; welfare>debt; welfare>disability; welfare>disaster; welfare>famine;  
welfare>household; welfare>illness; welfare>income; welfare>orphan; welfare>pension; welfare>population; welfare>poverty; welfare>salary; welfare>solidarity; welfare>tax;  
welfare>unemployment; welfare>veteran; welfare>widow; well-being>economics; well-being>wealth; velvet>collar; velvet>linen; velvet>silk; velvet>wool; verb>adverb; verb>clause;  
verb>grammar; verb>infinitive; verb>language; verb>phrasal verb; verb>word; verdict>appeal; verdict>judgment; verdict>jury; verdict>law; verse>poetry; west>adjective;  
west>adverb; west>death; west>earth; west>east; west>geography; west>hunting; west>liberty; west>north; west>noun; west>south; west>sun; west>water; vet>veteran;  
veteran>crisis; veteran>holiday; whale>animal; whale>dolphin; whale>mammal; whale>bacteria; wheat>beer; wheat>biscuit; wheat>bread; wheat>butterfly; wheat>cake;  
wheat>cereal; wheat>cookie; wheat>disease; wheat>fat; wheat>flour; wheat>immune system; wheat>iron; wheat>pancake; wheat>pasta; wheat>pastry; wheat>pie; wheat>protein;  
wheat>rice; wheat>tractor; wheat>turkey; wheat>vitamin; wheel>aircraft; wheel>bicycle; wheel>cattle; wheel>energy; wheel>friction; wheel>horse; wheel>iron; wheel>kilogram;  
wheel>metre; wheel>pottery; wheel>road; wheel>sphere; wheel>steering wheel; wheel>technology; wheel>tool; wheel>torture; wheel>transport; wheel>truck; wheel>walk;  
wheel>wire; wheel>wood; wheelchair>artificial intelligence; wheelchair>bicycle; wheelchair>bus; wheelchair>chair; wheelchair>computer; wheelchair>disability; wheelchair>illness;  
wheelchair>revenue; wheelchair>switch; wheelchair>toilet; wheelchair>tram; wheelchair>walking; whim>carriage; whisky>alcohol; whisky>coconut; whisky>corn; whisky>grain;  
whisky>linen; whisky>sand; whisky>wheat; whistle>basketball; whistle>dj; whistle>headache; whistle>ice hockey; whistle>jazz; whistle>police; whistle>rhythm; whistle>train;  
white>angel; white>autumn; white>black; white>chess; white>cloud; white>coldness; white>cotton; white>crystal; white>density; white>earth; white>frost; white>heat; white>heaven;  
white>ice; white>innocence; white>life; white>light; white>milk; white>peace; white>polar bear; white>racist; white>science; white>snow; white>sun; white>sunlight; white>swan;  
white>tiger; white>toothpaste; white>vinegar; white>winter; white>virtue; vice>alcohol; vice>anger; vice>deputy; vice>envy; vice>faith; vice>gambling; vice>hated; vice>hope;  
vice>jealousy; vice>laziness; vice>pride; vice>sin; vice>vanity; vice>virtue; victory>aggression; victory>competition; victory>hero; victory>monster; victory>trophy; victory>war; video  
clip>advertising; video clip>blog; video clip>celebrity; video clip>digital camera; video clip>icon; video clip>mobile phone; video clip>television; video clip>webcam; video  
clip>website; video clip>video; video game>artificial intelligence; video game>distracted; video game>mud; video game>sex; video game>video; video>dvd; video>image;  
video>recording; video>technology; video>television; video>virtual reality; widow>marriage; widow>orphan; width>length; view>opinion; wife>bride; wife>crime; wife>divorce;  
wife>education; wife>female; wife>husband; wife>marriage; wife>mother; wife>mrs; wife>profession; wife>sin; wife>spouse; wife>surname; wife>wedding; wife>widow; wife>woman;  
wilderness>camping; wilderness>climate change; wilderness>commerce; wilderness>earth; wilderness>forest; wilderness>genetics; wilderness>geology; wilderness>global  
warming; wilderness>human; wilderness>hunting; wilderness>industrialization; wilderness>laboratory; wilderness>law; wilderness>mountain; wilderness>nature;  
wilderness>privilege; wilderness>recreation; wilderness>science; wilderness>species; wilderness>summer; wilderness>technology; wilderness>zoo; wildlife>eagle; wildlife>ecology;  
wildlife>education; wildlife>extinction; wildlife>feather; wildlife>fishing; wildlife>habitat; wildlife>nature; wildlife>rabbit; wildlife>recreation; wildlife>shark; wildlife>sport; wildlife>tiger;  
wildlife>traffic; village>cathedral; village>city; village>community; village>election; village>elite; village>farmer; village>god; village>island; village>market; village>mayor;  
village>mosque; village>neighbourhood; village>rice; village>sheep; village>starvation; village>suburb; village>town; villager>newspaper; willingness>will; willpower>self-control;  
willpower>self-discipline; win>victory; wind>aircraft; wind>castle; wind>civilization; wind>coast; wind>cold; wind>desert; wind>dust; wind>east; wind>electricity; wind>erosion;  
wind>fat; wind>feather; wind>friction; wind>history; wind>human; wind>insect; wind>island; wind>kite; wind>landscape; wind>mountain; wind>ocean; wind>penguin; wind>predator;  
wind>recreation; wind>runway; wind>sail; wind>sailing; wind>soil; wind>speed; wind>storm; wind>sun; wind>temperature; wind>thunderstorm; wind>tornado;  
wind>transport; wind>water; wind>weather; wind>weed; wind>west; wind>windsurfing; wind>winter; wind>world; window>aircraft; window>bus; window>curtain; window>door;  
window>fire; window>lead; window>paper; window>radiation; window>roof; window>steel; window>wall; window>vehicle; window>wood; windsurfing>helmet; windsurfing>kite;  
windsurfing>sail; windsurfing>snowboarding; windsurfing>surfing; wine>acid; wine>archaeologist; wine>beer; wine>cancer; wine>carbon dioxide; wine>carbon footprint;  
wine>cucumber; wine>dentist; wine>fence; wine>gardener; wine>grape; wine>grape; wine>litre; wine>litre; wine>oak; wine>plant; wine>plastic; wine>poetry; wine>rice; wine>rose; wine>species;  
wine>spice; wine>sugar; wine>sweet; wine>wall; wine>vine; vinegar>acid; vinegar>apple; vinegar>beer; vinegar>cabbage; vinegar>champagne; vinegar>cholesterol;  
vinegar>dessert; vinegar>fever; vinegar>food; vinegar>garlic; vinegar>herb; vinegar>honey; vinegar>onion; vinegar>pear; vinegar>rice; vinegar>spice; vinegar>tomato;  
vinegar>water; vinegar>wheat; vinegar>wine; wine>aircraft; wine>bat; wine>bird; wine>flight; wine>fluid; wine>gas; wine>helicopter; wine>liquid; wine>penguin; wine>physics;  
wing>surface; wing>tree; winner>champion; winter>butterfly; winter>global warming; winter>snow; violence>aggression; violence>archaeology; violence>capitalism;  
violence>dignity; violence>human rights; violence>interest; violence>law; violence>mammal; violence>murder; violence>neglect; violence>philosophy; violence>police;  
violence>pride; violence>psychology; violence>respect; violence>shame; violence>suicide; violence>terrorism; violence>trade; violence>war; violin>arch; violin>cello; violin>disco;  
violin>fraud; violin>guitar; violin>horse; violin>jazz; violin>leather; violin>orchestra; violin>piano; violin>rhythm; violin>silk; violin>silver; violin>spectrum; violin>steel; violin>wood;  
wire>brass; wire>bronze; wire>diamond; wire>cable; wire>copper; wire>diamond; wire>electricity; wire>gold; wire>iron; wire>lead; wire>monopoly; wire>steel; wire>virtual reality>machine;  
virtual reality>navy; virtual reality>science fiction; virtual reality>simulation; virtual reality>techno; virtual reality>therapy; virtue>blame; virtue>courage; virtue>courtesy; virtue>dignity;  
virtue>discipline; virtue>duty; virtue>faith; virtue>generosity; virtue>goodness; virtue>happiness; virtue>honesty; virtue>hope; virtue>humility; virtue>intelligence; virtue>justice;  
virtue>kindness; virtue>law; virtue>love; virtue>loyalty; virtue>mercy; virtue>patience; virtue>peace; virtue>praise; virtue>principle; virtue>psychology; virtue>respect;  
virtue>sincerity; virtue>solitude; virtue>sympathy; virtue>truth; virtue>turkey; virtue>vice; virtue>wisdom; virus>animal; virus>antibiotic; virus>bacteria; virus>cancer; virus>carbon  
dioxide; virus>crystal; virus>disease; virus>dna; virus>evolution; virus>genetics; virus>infection; virus>insect; virus>life; virus>plant; virus>poison; virus>protein; virus>species;  
virus>vaccination; virus>vaccine; wisdom>analogy; wisdom>artificial intelligence; wisdom>consciousness; wisdom>empathy; wisdom>experience; wisdom>human;  
wisdom>ignorance; wisdom>imitation; wisdom>intelligence; wisdom>knowledge; wisdom>memory; wisdom>philosophy; wisdom>poison; wisdom>psychology; wisdom>reflection;  
wisdom>science fiction; wisdom>self-awareness; wisdom>sincerity; wisdom>turkey; wisdom>verb; wisdom>virtue; wish>fiction; wish>fountain; wish>goal; wish>common sense;  
wit>genius; wit>humour; wit>poetry; wit>reasoning; vitality>health; vitality>life; vitality>youth; vitamin>bone; vitamin>disease; vitamin>fat; vitamin>gen; vitamin>hygiene;  
vitamin>lemon; vitamin>liver; vitamin>meat; vitamin>milk; vitamin>moral; vitamin>mouse; vitamin>muscle; vitamin>nutrition; vitamin>protein; vitamin>rat; vitamin>rice; vitamin>salt;  
vitamin>skin; vitamin>sunlight; vitamin>surgeon; vitamin>water; withdrawal>anxiety; withdrawal>headache; witness>credibility; witness>judge; witness>lawyer; witness>memory;  
witness>prosecution; witness>prosecutor; witness>sense; vocabulary>collocation; vocabulary>communication; vocabulary>education; vocabulary>gesture; vocabulary>infant;  
vocabulary>language; vocabulary>learning; vocabulary>speech; volcano>carbon; volcano>carbon dioxide; volcano>carbon monoxide; volcano>chemical; volcano>climate;  
volcano>famine; volcano>landscape; volcano>ozone; volcano>planet; volcano>radiation; volcano>soil; volcano>sun; volleyball>basketball; volleyball>tennis; volume>area;  
volume>centimetre; volume>circle; volume>density; volume>formula; volume>gas; volume>length; volume>liquid; volume>litre; volume>paint; volume>pressure; volume>quantity;  
volume>sphere; volume>teaspoon; volume>weight; woman>adult; woman>beauty; woman>biology; woman>birth; woman>birthday; woman>breast; woman>child; woman>cigarette;  
woman>copper; woman>economics; woman>engineering; woman>female; woman>gene; woman>genetics; woman>girl; woman>graduate; woman>health; woman>historian;  
woman>human; woman>lady; woman>matter; woman>mirror; woman>professional; woman>psychology; woman>science; woman>spirit; woman>suicide; wood>aluminium;  
wood>bark; wood>branch; wood>cherry; wood>coconut; wood>extract; wood>fuel; wood>leaf; wood>oak; wood>pine; wood>root; wood>ski; wood>soil; wood>weapon;  
woodland>forest; woodland>grass; wool>auction; wool>carpet; wool>clothing; wool>cotton; wool>leather; wool>linen; wool>protein; wool>sheep; wool>silk; wool>skin;  
word>adjective; word>adverb; word>bear; word>clause; word>grammar; word>language; word>noun; word>noun; word>phrase; word>preposition; word>pronoun; word>pronunciation;  
word>speech; word>verb; word>writing; workaholic>alcohol; workaholic>alcoholic; workaholic>stroke; worker>workforce; workforce>employment; workforce>industry;  
workforce>management; workforce>wage; workplace>corporation; workplace>employment; workplace>factory; workplace>office; workplace>organization; workshop>aircraft;  
workshop>building; workshop>factory; workshop>machine; workshop>manufacturing; workshop>tool; world>career; world>civilization; world>concept; world>consumer;  
world>country; world>devil; world>earth; world>experience; world>globalization; world>heaven; world>hell; world>history; world>human; world>paradise; world>planet;  
world>population; world>reality; world>region; world>science fiction; world>temptation; worm>animal; worm>corpse; worm>dog; worm>insect; worm>leg; worm>snake; worm>soil;  
worm>species; worry>anxiety; worry>emotion; worry>exercise; worry>hug; worry>mind; worry>risk; worry>sleep; worship>angel; worship>celebrity; worship>flag; worship>god;  
worship>religion; worship>saint; worship>society; worst>superlative; wound>bacteria; wound>bandage; wound>blood; wound>bruise; wound>infection; wound>injury;  
wound>knife; wound>razor; wound>skin; vow>ceremony; vow>meat; vow>promise; vow>wedding; vow>wine; vow>witness; vowel>alphabet; vowel>consonant;  
vowel>curtain; vowel>jaw; vowel>language; vowel>preposition; vowel>sound; vowel>syllable; voyage>exploration; voyage>travel; wrinkle>dog; wrinkle>skin; wrinkle>water;  
wrist>hand; writer>actor; writer>argument; writer>astronomy; writer>author; writer>biology; writer>blog; writer>court; writer>culture; writer>dialogue; writer>diary; writer>edition;  
writer>education; writer>entertainment; writer>essay; writer>film; writer>fraud; writer>greed; writer>historian; writer>idea; writer>image; writer>irony; writer>literature; writer>logic;  
writer>lyrics; writer>narrative; writer>novel; writer>paper; writer>parliament; writer>philosophy; writer>physics; writer>poetry; writer>policy; writer>politics; writer>religion;  
writer>revelation; writer>rhythm; writer>rhythm; writer>science fiction; writer>society; writer>writing; writing>alphabet; writing>author; writing>communication; writing>essay;  
writing>gerund; writing>history; writing>human; writing>illustration; writing>information; writing>journalism; writing>journalist; writing>language; writing>literacy; writing>literature;  
writing>novelist; writing>painting; writing>paper; writing>pen; writing>pencil; writing>poet; writing>science; writing>syllable; writing>time; writing>translation; writing>writer;  
xenophobia>concept; xenophobia>culture; xenophobia>immigration; xenophobia>individual; xenophobia>prejudice; xenophobia>propaganda;  
xenophobia>racism; xenophobia>society; x-ray>aluminium; x-ray>astronomy; x-ray>bone; x-ray>cancer; x-ray>copper; x-ray>dna; x-ray>energy; x-ray>experiment; x-ray>iron; x-  
ray>kilogram; x-ray>life; x-ray>muscle; x-ray>surgeon; yacht>air conditioning; yacht>aluminium; yacht>boat; yacht>cargo; yacht>customs; yacht>radio; yacht>sailing; yacht>ship;  
yacht>steel; yacht>tide; yard>area; yard>golf; yard>inch; yard>metre; yard>volume; year>archaeology; year>astronomy; year>autumn; year>calendar; year>day;  
year>daylight; year>dinosaur; year>earth; year>geology; year>hour; year>millennium; year>minute; year>month; year>pie; year>planet; year>season; year>second; year>summer;  
year>sun; year>time; year>weather; year>week; year>vegetation; year>winter; yellow>autumn; yellow>bee; yellow>bus; yellow>coward; yellow>curiosity;  
yellow>daylight; yellow>electricity; yellow>envy; yellow>friendship; yellow>gold; yellow>green; yellow>hope; yellow>imagination; yellow>intellectual; yellow>jam; yellow>jealousy;  
yellow>laser; yellow>lemon; yellow>mirror; yellow>optimism; yellow>rebellion; yellow>recreation; yellow>rose; yellow>spectrum; yellow>star; yellow>sugar;  
yellow>summer; yellow>sun; yellow>sunshine; yellow>temperature; yellow>traffic light; yellow>wasp; yellow>water; yellow>vein; yoga>mind; yoga>soul; yoga>stroke;

yogurt>bacteria; yogurt>bakery; yogurt>camel; yogurt>cherry; yogurt>cucumber; yogurt>farmer; yogurt>fast food; yogurt>fat; yogurt>fruit; yogurt>garlic; yogurt>goat; yogurt>honey; yogurt>jam; yogurt>mango; yogurt>milk; yogurt>olive; yogurt>onion; yogurt>peach; yogurt>pineapple; yogurt>protein; yogurt>salt; yogurt>sheep; yogurt>spinach; yogurt>strawberry; yogurt>sugar; yogurt>turkey; youngster>child; youth>adult; youth>childhood; youth>obesity; youth>suicide; zebra>animal; zebra>donkey; zebra>extinction; zebra>hill; zebra>horse; zebra>mammal; zebra>mountain; zebra>species; zebra>woodland; zone>tv; zoo>bird; zoo>chicken; zoo>ecology; zoo>elephant; zoo>extinction; zoo>fish; zoo>giraffe; zoo>insect; zoo>mammal; zoo>neglect; zoo>reptile; zoo>species; zoo>whale;

(empty on purpose)

## Appendix AD

As discussed in Subchapter 12.2, this listing shows in respect to English Vocabulary Profile for each vocabulary ranging from A1 to A1&A2&B1&B2&C1&C2 unique nouns in unique Wikipedia hyperlinks connecting unique nouns in vocabulary so that nouns are listed separately for each language ability level. For each observed vocabulary ranging from A1 to A1&A2&B1&B2&C1&C2 a full listing of unique Wikipedia hyperlinks connecting unique nouns in vocabulary can be extracted from listing shown in Appendix AC by taking into consideration only those hyperlinks whose start concept and end concept belong to nouns of currently observed vocabulary among vocabularies ranging from A1 to A1&A2&B1&B2&C1&C2.

In contrast with Appendix AE, please note that concepts of consecutive ranges of language ability levels of English Vocabulary profile can be considered cumulative so that next ranges of language ability levels almost always (with very few exceptions) contain all concepts belonging to all previous ranges of language ability levels whereas consecutive vocabularies of Oxford Wordlist can be considered only partially cumulative since there is only partial overlap between consecutive vocabularies. These two different kinds of behavior affect also interpretation of Wikipedia hyperlinks connecting unique nouns in respect to both Oxford Wordlist and English Vocabulary Profile so that these hyperlinks can be considered cumulative for English Vocabulary Profile whereas hyperlinks can be considered only partially cumulative for Oxford Wordlist since there is only partial overlap.

Among 2878 unique concepts the biggest subentity that enabled traversing hyperlink chains between any of concepts belonging to this subentity in hyperlink network of vocabulary A1&A2&B1&B2&C1&C2 when any hyperlink can be traversed in both actual linking direction and opposite direction contained 2850 unique concepts and 28 external unique concepts include: comment, direction, directions, end, ending, exhaust, exhaustion, hole, network, networking, northwest, opening, program, programme, register, registration, remark, resemblance, scene, scenery, similarity, southeast, superior, superiority, term, terms, will and willingness.

Unique nouns in unique Wikipedia hyperlinks connecting unique nouns for observed vocabulary of A1 (i.e. when range of language ability levels reached so far is A1)

Alltogether 248 nouns with the following subdivision.

*Nouns belonging to language ability level A1 (248 nouns):*

adult; afternoon; animal; answer; apple; april; arm; august; baby; bag; ball; banana; bank; basketball; bathroom; beach; beard; bed; bedroom; beer; bird; birthday; biscuit; body; book; box; boy; bread; breakfast; bus; business; butter; café; cake; camera; cat; cd; cd player; chair; cheese; child; chip; chocolate; city; class; classroom; clock; coat; coffee; colour; computer; conversation; country; cow; credit card; cross; dad; dance; dancing; daughter; day; december; desk; dictionary; dining room; dinner; dog; door; dress; drink; dvd; ear; email; evening; eye; face; factory; family; farm; father; february; film; fish; floor; flower; food; foot; football; friday; friend; fruit; game; garden; girl; glass; glasses; grass; group; guitar; hair; hand; hat; head; holiday; home; homework; horse; hospital; hotel; hour; house; husband; ice cream; jacket; january; jeans; juice; july; june; kitchen; knife; language; leg; lesson; life; living room; lunch; man; march; may; meal; meat; message; milk; minute; miss; mobile; mobile phone; monday; money; month; morning; mother; mouth; movie; mrs; mum; museum; music; nationality; newspaper; night; noise; nose; note; november; number; october; paint; paper; parent; park; party; pen; pencil; people; person; pet; picnic; pig; pizza; plant; player; potato; problem; question; radio; rain; restaurant; rice; river; road; room; salt; sandwich; saturday; school; sea; september; sheep; shirt; shoe; shop; shopping; shower; skirt; smoking; snow; son; soup; sport; street; student; sugar; summer; sun; sunday; supermarket; swimming pool; tea; teacher; television; tennis; thursday; time; toilet; tomato; tooth; town; train; tree; trousers; t-shirt; tuesday; tv; university; waiter; wall; watch; water; weather; website; wednesday; week; weekend; vegetable; wife; village; wind; window; wine; winter; woman; word; world; writing; year; zoo;

*Nouns belonging to language ability level A2 (0 nouns):*

No nouns.

*Nouns belonging to language ability level B1 (0 nouns):*

No nouns.

*Nouns belonging to language ability level B2 (0 nouns):*

No nouns.

*Nouns belonging to language ability level C1 (0 nouns):*

No nouns.

*Nouns belonging to language ability level C2 (0 nouns):*

No nouns.

Unique nouns in unique Wikipedia hyperlinks connecting unique nouns for observed vocabulary of A1&A2 (i.e. when range of language ability levels reached so far is A1–A2)

Alltogether 706 nouns with the following subdivision.

*Nouns belonging to language ability level A1 (265 nouns):*

adult; afternoon; age; animal; answer; apple; april; arm; august; baby; bag; ball; banana; bank; basketball; bathroom; beach; beard; bed; bedroom; beer; bird; birthday; biscuit; board; boat; body; book; box; boy; bread; breakfast; brother; bus; business; butter; café; cake; camera; car; cat; cd; cd player; chair; cheese; child; chip; chocolate; city; class; classroom; clock; coat; coffee; colour; computer; conversation; country; course; cow; credit card; cross; dad; dance; dancing; daughter; day; december; desk; dictionary; dining room; dinner; dog; doll; dollar; door; dress; drink; dvd; ear; email; evening; eye; face; factory; family; farm; father; february; film; fish; flat; floor; flower; food; foot; football; friday; friend; fruit; game; garden; girl; glass; glasses; grass; group; guitar; hair; hand; hat; head; holiday; home; homework; horse; hospital; hotel; hour; house; husband; ice cream; jacket; january; jeans;



juice; july; june; kitchen; knife; language; leg; lesson; life; living room; lunch; man; march; may; meal; meat; message; milk; minute; miss; mobile; mobile phone; monday; money; month; morning; mother; mouth; movie; mrs; mum; museum; music; name; nationality; newspaper; night; noise; nose; note; november; number; october; page; paint; pair; paper; parent; park; party; pen; pencil; people; person; pet; phone; photo; picnic; pig; pizza; plant; player; potato; problem; question; radio; rain; restaurant; rice; river; road; room; salt; sandwich; saturday; school; sea; september; sheep; shirt; shoe; shop; shopping; shower; skirt; smoking; snow; son; soup; sport; station; stop; street; student; sugar; summer; sun; sunday; supermarket; swimming pool; tea; teacher; television; tennis; thursday; time; today; toilet; tomato; tooth; town; train; tree; trousers; t-shirt; tuesday; tv; university; waiter; wall; watch; water; weather; website; wednesday; week; weekend; vegetable; wife; village; wind; window; wine; winter; woman; word; world; writing; year; zoo;

*Nouns belonging to language ability level A2 (441 nouns):*

accident; actor; adjective; adverb; advertisement; air; airport; alarm clock; album; alcohol; ambulance; apartment; area; art; artist; aunt; autumn; back; badminton; balloon; barbecue; baseball; bat; bean; bear; bicycle; bike; bill; biology; bit; black; blackboard; blanket; blood; blue; board game; bookcase; bookshelf; boot; bottle; bowl; boyfriend; brain; bridge; brown; brush; building; bus station; bus stop; calendar; camping; can; capital; capital letter; car park; card; carpet; carrot; cartoon; case; cash; castle; cathedral; ceiling; cent; centimetre; century; cereal; chain; champagne; chat; chef; chemist; chemistry; cheque; chess; chicken; cigarette; circle; cleaner; climbing; cloud; clown; club; cola; cold; college; comb; comic; company; comparative; competition; concert; cook; cooking; cost; cousin; cream; cricket; crowd; cupboard; curry; curtain; customer; cycling; dancer; degree; dentist; department; department store; desert; dessert; diary; digital camera; dinosaur; diploma; disco; document; drawer; drawing; dream; drum; duck; earring; east; electricity; elephant; engine; engineer; entrance; envelope; euro; exam; examination; exercise; exit; fact; farmer; fashion; fast food; finger; fire; fishing; flight; fog; forest; fork; form; furniture; garlic; gas; gate; geography; gift; girlfriend; glove; goal; gold; golf; gram; grammar; grandchild; granddad; granddaughter; grandfather; grandma; grandmother; grandpa; grandparent; grandson; granny; grape; green; grey; guide; hall; ham; handbag; headache; health; heart; heating; helicopter; hill; hip-hop; history; hobby; hockey; honey; housewife; ice; id card; idea; information; insect; island; jam; jazz; jewellery; jumper; kick; kid; kilo; kilogram; kilometre; king; kiss; kit; kite; lake; laptop; leather; lemon; lemonade; library; light; line; lion; litre; luck; luggage; lunchtime; machine; magazine; mail; main course; make-up; mango; map; mark; market; match; mechanic; medicine; meeting; melon; member; memory; menu; metre; midnight; mineral water; mirror; monkey; mosque; motorway; mountain; mouse; mp3 player; mug; mushroom; nature; neck; necklace; news; noon; north; notebook; notice; noun; nurse; office; oil; omelette; onion; opera; pain; painter; painting; partner; passenger; passport; pasta; pc; pear; perfume; petrol station; photograph; photographer; photography; physics; piano; piece; pillow; pink; plan; plastic; playground; plural; police officer; police station; policeman; policewoman; pool; pop; post; post office; postcard; poster; present; price; prize; program; programme; project; pub; pupil; purple; purse; puzzle; quiz; rabbit; railway; raincoat; rat; reason; receipt; receptionist; red; rest; rock; roof; roundabout; rubber; rugby; ruler; runner; running; sailing; salad; sauce; sausage; scarf; schoolchild; science; scissors; screen; seat; second; secretary; set; shampoo; ship; shorts; show; sightseeing; sign; silver; singer; singing; sink; site; sitting room; size; skate; skateboard; skateboarding; skating; skiing; sky; snack; snake; snowboarding; soap; sock; soft drink; software; song; soul; sound; south; space; spelling; spoon; square; stadium; stage; stairs; star; steak; stomach; storm; suitcase; sunglasses; superlative; supper; surfing; surname; sweater; sweet; sweets; table tennis; team; teenager; telephone; temperature; text; textbook; theatre; thunderstorm; tights; timetable; toast; toe; toothache; toothbrush; top; tour guide; tourist; towel; toy; traffic; traffic light; tram; umbrella; uncle; uniform; walk; walking; wallet; war; washing machine; way; web page; weekday; verb; west; wheel; white; video; video game; violin; vocabulary; volleyball; wood; wool; yellow; yogurt;

*Nouns belonging to language ability level B1 (0 nouns):*

No nouns.

*Nouns belonging to language ability level B2 (0 nouns):*

No nouns.

*Nouns belonging to language ability level C1 (0 nouns):*

No nouns.

*Nouns belonging to language ability level C2 (0 nouns):*

No nouns.

Unique nouns in unique Wikipedia hyperlinks connecting unique nouns for observed vocabulary of A1&A2&B1 (i.e. when range of language ability levels reached so far is A1–B1)

*Alltogether 1374 nouns with the following subdivision.*

*Nouns belonging to language ability level A1 (273 nouns):*

adult; afternoon; age; animal; answer; apple; april; arm; august; baby; bag; ball; banana; bank; basketball; bathroom; beach; beard; bed; bedroom; beer; bird; birthday; biscuit; board; boat; body; book; box; boy; bread; breakfast; brother; bus; business; butter; café; cake; camera; car; cat; cd; cd player; chair; cheese; child; chip; chocolate; city; class; classroom; clock; clothes; coat; coffee; colour; computer; conversation; country; course; cow; credit card; cross; dad; dance; dancing; daughter; day; december; desk; dictionary; dining room; dinner; dog; doll; dollar; door; dress; drink; dvd; ear; email; end; evening; eye; face; factory; family; farm; father; february; film; fish; flat; floor; flower; food; foot; football; friday; friend; fruit; fun; game; garden; girl; glass; glasses; grass; group; guitar; hair; hand; hat; head; holiday; home; homework; horse; hospital; hotel; hour; house; husband; ice cream; jacket; january; jeans; juice; july; june; kitchen; knife; language; leg; lesson; letter; life; living room; lunch; man; march; may; meal; meat; message; milk; minute; miss; mobile; mobile phone; monday; money; month; morning; mother; mouth; movie; mr; mrs; mum; museum; music; name; nationality; newspaper; night; noise; nose; note; november; number; october; page; paint; pair; paper; parent; park; party; pen; pencil; people; person; pet; phone; photo; picnic; pig; pizza; plant; player; potato; problem; question; radio; rain; restaurant; rice; river; road; room; salt; sandwich; saturday; school; sea; september; sheep; shirt; shoe; shop; shopping; shower; sister; skirt; smoking; snow; son; soup; sport; station; stop; street; student; sugar; summer; sun; sunday; supermarket; swimming pool; tea; teacher; television; tennis; test; the internet; thursday; time; today; toilet; tomato; tooth; town; train; tree; trousers; t-shirt; tuesday; tv; university; waiter; wall; watch; water; weather; website; wednesday; week; weekend; vegetable; wife; village; wind; window; wine; winter; woman; word; world; writing; year; zoo;

*Nouns belonging to language ability level A2 (465 nouns):*

accident; actor; adjective; adventure; adverb; advertisement; aeroplane; air; airport; alarm clock; album; alcohol; ambulance; apartment; appointment; area; art; artist; aunt; autumn; back; badminton; balloon; barbecue; baseball; bat; bean; bear; bicycle; bike; bill; biology; bit; black; blackboard; blanket; blood; blue; board game; bookcase; bookshelf; boot; bottle; bowl; boyfriend; brain; bridge; brown; brush; building; bus station; bus stop; calendar; camping; can; capital; capital letter; car park; card; carpet; carrot; cartoon; case; cash; castle; cathedral; ceiling; cent; centimetre; century; cereal; chain; champagne; change; channel; chef; chemist; chemistry; cheque; chess; chicken; church; cigarette; circle; cleaner; click; climbing; cloud; clown; club; cola; cold; college; comb; comic; company; comparative; competition; concert; cook; cooking; cost; cousin; cream; cricket; crowd; cupboard; curry; curtain; customer; cycling; dancer; degree; dentist; department; department store; desert; dessert; diary; digital camera; dinosaur; diploma; directions; disco; document; drawer; drawing; dream; drum; duck; earring; east; electricity; elephant; engine; engineer; entrance; envelope; euro; exam; examination; exercise; exit; fact; farmer; fashion; fast food; finger; fire; fishing; flight; fog; forest; fork; form; furniture; garlic; gas; gate; geography; gift; girlfriend; glove; goal; gold; golf; gram; grammar; grandchild; granddad; granddaughter; grandfather; grandma; grandmother; grandpa; grandparent; grandson; granny; grape; green; grey; guide; hall; ham; handbag; headache; health; heart; heating; helicopter; help; hill; hip-hop; history; hobby; hockey; honey; housewife; ice; id card; idea; information; insect; island; jam; jazz; jewellery; journey; jumper; kick; kid; kilo; kilogram; kilometre; king; kiss; kit; kite; lake; laptop; leather; lemon; lemonade; level; library; light; line; lion; litre; luck; luggage; lunchtime; machine; magazine; magic; mail; main course; make-up; mango; map; mark; market; match; mechanic; medicine; meeting; melon; member; memory; menu; metre; midnight; mineral water; mirror; model; monkey; mosque; motorway; mountain; mouse; mp3 player; mug; mushroom; nature; neck; necklace; news; noon; north; notebook; notice; noun; nurse; occupation; office; oil; omelette; onion; opera; pain; painter; painting; partner; passenger; passport; pasta; pc; pear; pence; perfume; petrol; petrol station; photograph; photographer; photography; physics; piano; piece; pillow; pink; plan; plastic; playground; plural; pocket; police officer; police station; policeman; policewoman; pool; pop; post; post office; postcard; poster; present; price; prize; program; programme; project; pub; pupil; purple; purse; puzzle; quiz; rabbit; railway; raincoat; rat; reason; receipt; receptionist; red; rest; right; rock; roof; roundabout; rubber; rugby; ruler; runner; running; sailing; salad; sauce; sausage; scarf; schoolchild; science; scissors; screen; seat; second; secretary; set; shampoo; ship; shorts; show; side; sightseeing; sign; silver; singer; singing; sink; site; sitting room; size; skate; skateboard; skateboarding; skating; skiing; sky; snack; snake; snowboarding; soap; sock; soft drink; software; song; soul; sound; south; space; spelling; spoon; square; stadium; staff; stage; stairs; star; steak; stomach; storm; story; suitcase; sunglasses; superlative; supper; surfing; surname; sweater; sweet; sweets; table tennis; team; teenager; telephone; temperature; text; textbook; theatre; thunderstorm; tights; timetable; toast; toe; toothache; toothbrush; top; tour; tour guide; tourist; towel; toy; traffic; traffic light; tram; trip; umbrella; uncle; uniform; walk; walking; wallet; war; washing machine; way; web page; weekday; verb; west; wheel; white; video; video game; view; winner; violin; vocabulary; volleyball; wood; wool; yellow; yogurt;

*Nouns belonging to language ability level B1 (636 nouns):*

ability; accent; account; accountant; ache; act; action; ad; advantage; air conditioning; air force; airline; alarm; alphabet; amount; angel; animation; ankle; anniversary; ant; antique; application; architect; architecture; argument; arrangement; aspirin; athletics; atmosphere; attention; audience; author; backpack; backpacker; backpacking; bacon; baggage; baker; balcony; ballet; bank account; barber; basket; battle; bay; beauty; bee; beef; behaviour; benefit; bin; biography; birth; blog; blogger; bomb; bone; booking; border; boxing; bracelet; brake; branch; breast; breath; breeze; bride; broccoli; brochure; bucket; bug; bull; bunch; butcher; butterfly; button; buyer; cabbage; cabin; cable; calculator; calf; camel; camp; campsite; canal; cancer; candidate; candle; career; cattle; cave; cd-rom; celebration; celebrity; central heating; ceremony; challenge; champion; championship; chance; check; cheek; chest of drawers; chewing gum; childhood; chin; choice; circus; cliff; climate; clinic; coast; coconut; cod; coin; collection; comedy; comma; common sense; communication; competitor; complaint; conclusion; conference; consonant; contest; continent; contract; corn; cottage; cotton; cough; count; courgette; court; crash; creature; crew; crime; criminal; crop; cucumber; culture; currency; curriculum; cushion; custom; customs; cyclist; death; definite article; demand; description; design; designer; destination; detective; diagram; difficulty; direction; dirt; disadvantage; disappointment; disc; disc jockey; discussion; disease; dishwasher; disk; distance; district; diver; diving; divorce; dj; documentary; dolphin; donkey; dot; doubt; download; drama; drama; dust; dustbin; duty; duvet; earth; economics; education; effect; effort; elbow; election; emergency; employee; employer; employment; ending; enemy; energy; engineering; enquiry; entertainment; essay; event; exchange; exchange rate; excitement; exhibition; experience; experiment; expert; explanation; extreme sports; fair; fall; fare; farming; favourite; fear; fee; feeling; ferry; festival; fever; fiction; figure; fire station; firefighter; firework; firm; flag; flood; flour; flute; fly; folk; fool; forehead; fortnight; fountain; frame; freezer; friendship; frog; frying pan; fuel; full stop; fur; future; gallery; generation; ghost; giraffe; goalkeeper; goat; government; graphics; greeting; grill; groom; ground; guard; guitarist; gun; gym; gymnastics; haircut; hairdresser; handkerchief; handwriting; happiness; harbour; heart attack; heat; heater; heel; height; herb; hero; honeymoon; hope; hostel; hug; human; hunger; ice hockey; ice skating; illness; imagination; immigration; inch; indefinite article; industry; infinitive; ingredient; initial; ink; inquiry; instructor; interest; interview; invention; iron; ironing; issue; jail; jar; jogging; joke; journalist; judge; jug; jungle; kangaroo; keeper; kettle; killer; killing; kitten; knee; knowledge; lab; label; laboratory; ladder; lady; lamb; land; landscape; law; lawyer; leader; leaf; lecture; leisure; length; luggage; lie; lighter; lightning; link; lip; liquid; literature; loan; logo; lorry; lottery; love; lover; madam; marriage; material; membership; mess; message board; metal; mile; millimetre; mind; monster; monument; mosquito; moustache; murder; murderer; musician; mystery; neighbourhood; nephew; niece; nightclub; nightlife; nightmare; northwest; novel; object; ocean; officer; olive; opinion; opposite; orchestra; organization; oven; owner; palace; pan; pants; paragraph; parcel; parking; parrot; password; patient; pattern; pay; pea; peace; peach; peanut; pedestrian; penguin; penny; performance; performer; period; pharmacy;

photocopy; phrasal verb; phrase; pie; pin; pineapple; pirate; planet; pleasure; poem; poet; poetry; point; politician; politics; pollution; population; pork; port; possibility; prayer; preparation; preposition; presentation; president; priest; primary school; prince; princess; prison; prisoner; profession; professor; promise; pronoun; pronunciation; property; public transport; pullover; pump; punctuation; puppy; qualification; quantity; question mark; questionnaire; rail; rainforest; reception; recipe; record; recording; recycling; refund; region; relation; religion; remote control; repair; reply; reporter; request; rescue; research; resort; respect; result; return; review; robot; role; roll; rose; rubbish; rug; rule; run; sailor; salary; salmon; sand; sandal; saucer; scene; scenery; science fiction; scientist; sculpture; season; secondary school; secret; security; seller; sense; sex; shade; shadow; shape; shark; sheet; shore; shoulder; signature; silence; silk; sir; ski; skill; skin; sleep; sleeve; smile; smoke; snowboard; soap opera; social networking; society; soldier; solution; southeast; souvenir; speech; speed; spice; spider; spinach; spy; statue; step; stick; stone; strawberry; stream; strike; studio; study; style; success; sunrise; sunset; sunshine; supporter; sweatshirt; switch; system; talent; talk; taste; tax; teaching; technique; technology; temple; tent; thought; throat; thumb; thunder; tick; tiger; tin; title; tongue; toothpaste; tourism; tournament; tower; track; tracksuit; trade; traffic jam; training; translation; transport; travel; trend; trouble; truck; trumpet; tube; tuna; tunnel; turkey; turn; turning; twin; uncountable; underpants; underwear; unemployment; unit; user; wage; valley; van; wardrobe; vase; waste; waterfall; wave; weather forecast; webcam; wedding; vegetarian; vehicle; weight; whale; wheelchair; video clip; wildlife; windscreen; windsurfing; wing; virus; volume; worry; worst; vote; vowel; writer; yard; yoga; youth; zone;

*Nouns belonging to language ability level B2 (0 nouns):*  
No nouns.

*Nouns belonging to language ability level C1 (0 nouns):*  
No nouns.

*Nouns belonging to language ability level C2 (0 nouns):*  
No nouns.

Unique nouns in unique Wikipedia hyperlinks connecting unique nouns for observed vocabulary of A1&A2&B1&B2 (i.e. when range of language ability levels reached so far is A1–B2)

*Alltogether 2121 nouns with the following subdivision.*

*Nouns belonging to language ability level A1 (280 nouns):*

adult; afternoon; age; animal; answer; apple; april; arm; august; baby; bag; ball; banana; bank; basketball; bathroom; beach; beard; bed; bedroom; beer; bird; birthday; biscuit; board; boat; body; book; box; boy; bread; breakfast; brother; bus; business; butter; café; cake; camera; car; cat; cd; cd player; chair; cheese; child; chip; chocolate; city; class; classroom; clock; clothes; coat; coffee; colour; computer; conversation; country; course; cow; credit card; cross; cup; dad; dance; dancing; daughter; day; december; desk; dictionary; dining room; dinner; dog; doll; dollar; door; dress; drink; dvd; ear; email; end; evening; eye; face; factory; family; farm; father; february; film; fish; flat; floor; flower; food; foot; football; friday; friend; fruit; fun; game; garden; girl; glass; glasses; grass; group; guitar; hair; hand; hat; head; holiday; home; homework; horse; hospital; hotel; hour; house; husband; ice cream; jacket; january; jeans; juice; july; june; key; kind; kitchen; knife; language; leg; lesson; letter; life; living room; lunch; man; march; may; meal; meat; message; milk; minute; miss; mobile; mobile phone; monday; money; month; morning; mother; mouth; movie; mr; mrs; mum; museum; music; name; nationality; newspaper; night; noise; nose; note; november; number; october; page; paint; pair; paper; parent; park; part; party; pen; pencil; people; person; pet; phone; photo; picnic; picture; pig; pizza; place; plant; player; potato; problem; question; radio; rain; reading; restaurant; rice; river; road; room; salt; sandwich; saturday; school; sea; september; sheep; shirt; shoe; shop; shopping; shower; sister; skirt; smoking; snow; son; soup; sport; station; stop; street; student; sugar; summer; sun; sunday; supermarket; swimming pool; tea; teacher; television; tennis; test; the internet; thursday; time; today; toilet; tomato; tooth; town; train; tree; trousers; t-shirt; tuesday; tv; university; waiter; wall; watch; water; weather; website; wednesday; week; weekend; vegetable; wife; village; wind; window; wman; winter; woman; word; world; writing; zoo;

*Nouns belonging to language ability level A2 (473 nouns):*

accident; actor; adjective; adventure; adverb; advertisement; aeroplane; air; airport; alarm clock; album; alcohol; ambulance; apartment; appointment; area; art; artist; aunt; autumn; back; badminton; balloon; barbecue; baseball; bat; bean; bear; bicycle; bike; bill; biology; bit; black; blackboard; blanket; blood; blue; board game; bookcase; bookshelf; boot; boss; bottle; bowl; boyfriend; brain; break; bridge; brown; brush; building; bus station; bus stop; calendar; camping; can; cap; capital; capital letter; car park; card; carpet; carrot; cartoon; case; cash; castle; cathedral; ceiling; cent; centimetre; century; cereal; chain; champagne; change; channel; chat; chef; chemist; chemistry; cheque; chess; chicken; church; cigarette; circle; cleaner; click; climbing; cloud; clown; club; coach; cola; cold; college; comb; comic; company; comparative; concert; cooking; cost; cousin; cream; cricket; crowd; cupboard; curry; curtain; customer; cycling; dancer; danger; degree; dentist; department; department store; desert; dessert; diary; digital camera; dinosaur; diploma; directions; disco; document; drawer; drawing; dream; drum; duck; earring; east; electricity; elephant; engine; engineer; entrance; envelope; euro; exam; examination; exercise; exit; fact; farmer; fashion; fast food; finger; fire; fishing; flight; fog; forest; fork; form; furniture; garlic; gas; gate; geography; gift; girlfriend; glove; goal; gold; golf; gram; grammar; grandchild; granddad; granddaughter; grandfather; grandma; grandmother; grandpa; grandparent; grandson; granny; grape; green; grey; guide; hall; ham; handbag; headache; health; heat; heating; helicopter; help; hill; hip-hop; history; hobby; hockey; honey; housewife; ice; id card; idea; information; insect; instrument; island; jam; jazz; jewellery; journey; jumper; kick; kid; kilo; kilogram; kilometre; king; kiss; kit; kite; lake; laptop; leather; lemon; lemonade; level; library; light; line; lion; litre; luck; luggage; lunchtime; machine; magazine; magic; mail; main course; make-up; manager; mango; map; mark; market; match; mechanic; medicine; meeting; melon; member; memory; menu; metre; midday; midnight; mineral water; mirror; model; monkey; mosque; motorway; mountain; mouse; mp3 player; mug; mushroom; nature; neck; necklace; news; noon; north; notebook; notice; noun; nurse; occupation; office; oil; omelette; opera; onion; pain; painter; painting; partner; passenger; passport; pasta; pc; pear; pence; perfume; petrol; petrol station; photograph; photographer; photography; physics; piano; piece; pillow; pink; plan; plastic; playground; plural; pocket; police; police officer; police station; policeman; policewoman; pool; pop; post; post office; postcard; poster; present; price; prize; program; programme; project; pub; pupil; purple; purse; puzzle; quiz; rabbit; railway; raincoat; rat; reason; receipt; receptionist; red; rest; right; rock; roof; roundabout; rubber; rugby; ruler; runner; running; sailing; salad; sauce; sausage; saucer; schoolchild; science; scissors; screen; seat; second; secretary; set; shampoo; ship; shorts; show; side; sightseeing; sign; silver; singer; singing; sink; site; sitting room; size; skate; skateboard; skateboarding; skating; skiing; sky; snack; snake; snowboarding; soap; sock; soft drink; software; song; soul; sound; south; space; spelling; spoon; square; stadium; staff; stage; stairs; star; steak; stomach; storm; story; suitcase; sunglasses; superlative; supper; surfing; surname; sweater; sweet; sweets; table tennis; team; teenager; telephone; temperature; term; text; textbook; theatre; thunderstorm; tights; timetable; toast; toe; toothache; toothbrush; top; tour; tour guide; tourist; towel; toy; traffic; traffic light; train; trip; umbrella; uncle; uniform; walk; walking; wallet; war; washing machine; way; web page; weekday; verb; west; wheel; white; video; video game; view; winner; violin; vocabulary; volleyball; wood; wool; yellow; yogurt;

*Nouns belonging to language ability level B1 (682 nouns):*

ability; accent; account; accountant; ache; act; action; ad; advantage; advert; air conditioning; air force; airline; alarm; alphabet; amount; angel; animation; ankle; anniversary; ant; antique; application; architect; architecture; argument; arrangement; aspirin; athletics; atmosphere; attention; audience; author; average; backpack; backpacker; backpacking; bacon; baggage; baker; balcony; ballet; bandage; bank account; barber; basket; battle; bay; beauty; bee; beef; behaviour; benefit; bin; biography; birth; blog; blogger; bomb; bone; booking; border; boxing; bracelet; brake; branch; breast; breeze; bride; broccoli; brochure; bucket; bug; bull; bunch; butcher; butterfly; button; buyer; cabbage; cabin; cable; calculator; calf; camel; camp; campsite; canal; cancer; candidate; candle; captain; career; cattle; cave; cd-rom; celebration; celebrity; central heating; ceremony; challenge; champion; championship; chance; charge; check; cheek; chest of drawers; chewing gum; childhood; chin; choice; circus; cliff; climate; clinic; coast; coconut; cod; coin; collar; collection; comedy; comma; comment; common sense; communication; competitor; complaint; conclusion; conference; consonant; contents; contest; continent; cord; corn; correction; cottage; cotton; cough; count; courgette; court; crash; creature; crew; crime; criminal; crop; cucumber; culture; currency; curriculum; cushion; custom; customs; cut; cv; cyclist; damage; death; decision; defeat; definite article; demand; description; design; designer; destination; detective; diagram; difficulty; direction; dirt; disadvantage; disappointment; disc; disc jockey; discussion; disease; dishwasher; disk; distance; district; diver; diving; divorce; dj; documentary; dolphin; donkey; dot; doubt; download; drama; drive; drop; dust; dustbin; duty; duvet; earth; economics; edge; education; effect; effort; elbow; election; embassy; emergency; employee; employer; employment; ending; enemy; energy; engineering; enquiry; entertainment; equipment; essay; event; exchange; exchange rate; excitement; exhibition; experience; experiment; expert; explanation; extreme sports; facilities; fair; fall; fare; farming; favourite; fear; fee; feeling; ferry; festival; fever; fiction; figure; fire station; firefighter; firework; firm; flag; flood; flour; flute; fly; folk; fool; forehead; fortnight; fountain; frame; freezer; friendship; frog; frying pan; fuel; full stop; fur; future; gallery; generation; ghost; giraffe; goalkeeper; goat; government; graphics; greeting; grill; groom; ground; guard; guitarist; gun; gym; gymnastics; haircut; hairdresser; handkerchief; handwriting; happiness; harbour; hardware; headline; heart attack; heat; heater; heel; height; herb; hero; hole; honeymoon; hope; hostel; housework; hug; human; hunger; ice hockey; ice skating; illness; imagination; immigration; inch; indefinite article; industry; infinitive; ingredient; initial; ink; inquiry; instructor; interest; interview; invention; iron; ironing; issue; jail; jar; jogging; joke; journalist; judge; jug; jungle; kangaroo; keeper; kettle; killer; killing; kitten; knee; knowledge; lab; label; laboratory; ladder; lady; lamb; land; landscape; laugh; law; lawyer; leader; leaf; lecture; leisure; length; lettuce; lie; lighter; lightning; link; lip; liquid; literature; loan; logo; lorry; lottery; love; lover; madam; marriage; material; meaning; membership; mess; message board; metal; mile; millimetre; mind; minimum; mix; monster; monument; mosquito; moustache; murder; murderer; musician; mystery; neighbourhood; nephew; niece; nightclub; nightlife; nightmare; northwest; novel; object; ocean; officer; olive; operation; opinion; opportunity; opposite; orchestra; organization; oven; owner; palace; pan; pants; paragraph; parcel; parking; parrot; password; patient; pattern; pay; pea; peace; peach; peak; peanut; pedestrian; penguin; penny; performance; performer; period; pharmacy; photocopy; phrasal verb; phrase; pie; pin; pineapple; pirate; planet; pleasure; poem; poet; poetry; point; politician; politics; pollution; population; pork; port; possibility; pot; prayer; preparation; preposition; presentation; president; priest; primary school; prince; princess; prison; prisoner; profession; professor; promise; pronoun; pronunciation; property; public transport; pullover; pump; punctuation; puppy; purpose; push; qualification; quantity; question mark; questionnaire; rail; rainforest; reception; recipe; record; recording; recycling; refund; region; relation; relaxation; religion; remote control; repair; reply; reporter; request; rescue; research; resort; respect; result; return; reward; review; robot; role; roll; rose; rubbish; rug; rule; run; sailor; salary; salmon; sand; sandal; saucer; scene; scenery; science fiction; scientist; score; sculpture; season; secondary school; secret; security; seller; sense; series; sex; shade; shadow; shape; shark; sheet; shore; shoulder; signature; silence; silk; sir; ski; skill; skin; sleep; sleeve; smell; smile; smoke; snowboard; soap opera; social networking; society; soldier; solution; southeast; souvenir; speech; speed; spice; spider; spinach; spy; statue; step; stick; stone; strawberry; stream; strike; studio; study; style; success; suggestion; sum; sunrise; sunset; sunshine; support; supporter; sweatshirt; switch; system; tablet; talent; talk; taste; tax; teaching; technique; technology; temple; tent; thief; thought; throat; thumb; thunder; tick; tiger; tin; tip; title; tongue; toothpaste; tourism; tournament; tower; track; tracksuit; trade; traffic jam; training; translation; transport; travel; travel agent; trend; trouble; truck; trumpet; tube; tuna; tunnel; turkey; turn; turning; twin; uncountable; underpants; underwear; unemployment; unit; user; wage; valley; van; wardrobe; vase; waste; waterfall; wave; weather forecast; webcam; wedding; vegetarian; vehicle; weight; whale; wheelchair; video clip; wildlife; windscreen; windsurfing; wing; virus; volume; worry; worst; vote; vowel; writer; yard; yoga; youth; zone;

*Nouns belonging to language ability level B2 (686 nouns):*

abuse; accuracy; acid; addict; addiction; addition; admiration; adoption; advertising; affair; affection; agent; agreement; agriculture; aircraft; aluminium; ambassador; amusement; analysis; ancestor; anger; anxiety; apostrophe; appeal; arrest; arrow; atom; attachment; attempt; authority; availability; award; backup; badge; bakery; bang; banker; banking; bargain; barrier; basement; belief; bench; berry; bestseller; bikini; bite; blade; blame; bomber; bombing; bond; booklet; bookmark; boost; bow; bracket; brand; bravery; breed; brick; broadband; brother-in-law; bruise; budget; bulb; bullet; bun; burglar; burglary; calculation; campus; canopy; carbon; carbon dioxide; carbon footprint; carbon monoxide; carnival; cast; catering; cause; cell; cellar; cello; cemetery; certainty; characteristic; chart; chemical; cherry; chest; chimney; choir; citizen; civilization; claim; classic; clause; client; climate

change; cloth; clothing; clue; coaching; code; coincidence; collocation; column; comedian; comfort; commerce; commercial; commitment; committee; community; companion; composer; compromise; concentration; concept; concern; concrete; confidence; confirmation; confusion; consciousness; consequence; consideration; construction; consultant; consumer; container; content; contribution; convenience; cooperation; copper; corporation; corridor; costume; council; counter; county; courage; courtesy; coward; crab; craft; creation; creativity; crisis; critic; criticism; crocodile; cruelty; cure; curiosity; curve; cycle; darkness; dash; data; database; dawn; daylight; deal; debate; debit; debit card; debt; decade; deck; decline; decoration; deer; definition; delight; democracy; denim; desire; desktop; determination; determiner; device; devil; dialogue; diamond; dilemma; dimension; diplomat; disability; disagreement; disaster; discipline; disguise; dishonesty; dislike; distinction; dive; donation; dose; drug; eagerness; eagle; earnings; earthquake; economist; economy; edition; efficiency; electrician; electronics; element; embarrassment; emotion; enjoyment; entertainer; enthusiasm; environment; envy; episode; equal; era; error; escalator; estate; evidence; evil; evolution; exclamation mark; existence; expense; explosion; export; extract; eyebrow; eyelash; eyelid; eyesight; facility; failure; fame; fancy; fat; fault; feather; feedback; female; fence; finance; fingernail; first language; fisherman; flame; flash; fluency; force; fortune; fox; freedom; frost; frustration; funeral; gambling; gang; gardener; gardening; gear; gender; generosity; genetics; gentleman; global warming; god; gossip; graduate; graph; grave; greatness; grief; growth; guarantee; guidance; gum; hammer; handle; handout; hard drive; harm; harmony; harvest; headquarters; heaven; hedge; hell; helmet; hip; honesty; honour; horn; host; household; human rights; humour; hunting; hyphen; icon; idiom; idiot; image; immigrant; income; independence; individual; infection; inflation; injury; input; inspector; inspiration; institute; institution; insult; insurance; intelligence; intention; invasion; inventor; investigation; investigator; investment; investor; jaw; jewel; journalism; joy; judgment; junk food; jury; justice; kindness; landing; landlady; landlord; lane; lap; laser; laughter; laundry; laziness; lead; leaflet; leak; learner; learning; lecturer; leek; legend; leopard; liar; liberty; lid; lighting; litter; liver; living; loaf; loss; loyalty; lung; lyrics; majority; male; management; mankind; manual; manufacturer; manufacturing; marathon; marketing; martial art; mask; master; matter; mayor; measure; measurement; medal; microphone; minority; miracle; misery; mist; misunderstanding; mixture; moonlight; motivation; motive; motor; motorist; mud; muscle; musical; myth; nation; native speaker; navy; need; nerves; nonsense; novelist; nuisance; oak; obligation; observation; opening; origin; overtime; owl; oxygen; pace; pack; pancake; panic; parachute; parade; parliament; partnership; passage; patience; pause; paw; payment; penalty; pension; percentage; personality; pharmacist; philosopher; philosophy; pine; pint; pitch; pity; planning; plot; plumber; poison; polar bear; policy; politeness; pond; popularity; portrait; potential; pottery; poverty; prawn; prediction; preference; prefix; prejudice; presenter; presidency; pressure; prevention; pride; prime minister; principal; priority; privacy; procedure; production; professional; proof; protection; protest; psychologist; psychology; publication; publicity; publisher; pudding; punishment; quarrel; query; quiet; racism; rage; rainbow; rape; rate; razor; reach; reality; recession; recovery; recreation; referee; reference; reflection; refugee; regulation; rehearsal; relief; remains; remark; remedy; reputation; requirement; researcher; reserve; resident; resource; response; responsibility; retirement; revenge; revolution; rhythm; rib; rise; risk; robbery; rocket; roommate; root; rope; rumour; rush hour; sadness; safety; satellite; scandal; scar; scent; scratch; seed; selection; self-confidence; semicolon; seminar; sensation; servant; setting; shed; shooting; shopkeeper; shot; sickness; signal; sister-in-law; skeleton; slave; slope; smoker; soil; soundtrack; source; specialist; species; spirit; spread; spreadsheet; stain; standard; state; statistics; steam; steel; steering wheel; stepmother; stock; storey; strategy; strength; string; stroke; structure; substance; suburb; suffering; suffix; suicide; sunlight; supplier; surface; surgery; surroundings; survey; survival; suspect; swan; sweat; sword; syllable; symbol; sympathy; symptom; tail; target; task; teaspoon; telecommunications; telescope; temper; temptation; terminal; terms; terrace; terror; terrorism; terrorist; theft; theory; therapy; thermometer; thesis; thigh; thirst; threat; tide; timing; toenal; tomb; ton; tone; tool; torch; tornado; touch; trace; tradition; tragedy; trail; tray; treasure; treatment; trekking; trial; triangle; tribe; trophy; truth; try; tutor; understanding; unhappiness; upgrade; waist; ward; warmth; wasp; weakness; wealth; weapon; welfare; verse; wheat; whisky; whistle; victory; widow; width; will; willingness; vinegar; violence; wire; virtual reality; wisdom; wish; vision; vitamin; witness; volcano; wolf; volunteer; worm; wound; voyage; wrist; x-ray; yacht; zebra;

*Nouns belonging to language ability level C1 (0 nouns):*  
No nouns.

*Nouns belonging to language ability level C2 (0 nouns):*  
No nouns.

Unique nouns in unique Wikipedia hyperlinks connecting unique nouns for observed vocabulary of A1&A2&B1&B2&C1 (i.e. when range of language ability levels reached so far is A1–C1)

*Alltogether 2470 nouns with the following subdivision.*

*Nouns belonging to language ability level A1 (281 nouns):*

adult; afternoon; age; animal; answer; apple; april; arm; august; baby; bag; ball; banana; bank; basketball; bathroom; beach; beard; bed; bedroom; beer; bird; birthday; biscuit; board; boat; body; book; box; boy; bread; breakfast; brother; bus; business; butter; café; cake; camera; car; cat; cd; cd player; chair; cheese; child; chip; chocolate; city; class; classroom; clock; clothes; coat; coffee; colour; computer; conversation; country; course; cow; credit card; cross; cup; dad; dance; dancing; daughter; day; december; desk; dictionary; dining room; dinner; director; dog; doll; dollar; door; dress; drink; dvd; ear; email; end; evening; eye; face; factory; family; farm; father; february; film; fish; flat; floor; flower; food; foot; football; friday; fruit; fun; game; garden; girl; glass; glasses; grass; group; guitar; hair; hand; hat; head; holiday; home; homework; horse; hospital; hotel; hour; house; husband; ice cream; jacket; january; jeans; juice; july; june; key; kind; kitchen; knife; language; leg; lesson; letter; life; living room; lunch; man; march; may; meal; meat; message; milk; minute; miss; mobile; mobile phone; monday; money; month; morning; mother; mouth; movie; mr; mrs; mum; museum; music; name; nationality; newspaper; night; noise; nose; note; november; number; october; page; paint; pair; paper; parent; park; part; party; pen; pencil; people; person; pet; phone; photo; picnic; picture; pig; pizza; place; plant; player; potato; problem; question; radio; rain; reading; restaurant; rice; river; road; room; salt; sandwich; Saturday; school; sea; september; sheep; shirt; shoe; shop; shopping; shower; sister; skirt; smoking; snow; son; sport; station; stop; street; student; sugar; summer; sun; sunday; supermarket; swimming pool; tea; teacher; television; tennis; test; the internet; thursday; time; today; toilet; tomato; tooth; town; train; tree; trousers; t-shirt; tuesday; tv; university; waiter; wall; watch; water; weather; website; wednesday; week; weekend; vegetable; wife; village; wind; window; wine; winter; woman; word; world; writing; year; zoo;

*Nouns belonging to language ability level A2 (479 nouns):*

accident; actor; adjective; adventure; adverb; advertisement; aeroplane; air; airport; alarm clock; album; alcohol; ambulance; apartment; appointment; area; art; artist; aunt; autumn; back; badminton; balloon; barbecue; baseball; bat; bean; bear; bicycle; bike; bill; biology; bit; black; blackboard; blanket; blood; blue; board game; bookcase; bookshelf; boot; boss; bottle; bowl; boyfriend; brain; break; bridge; brown; brush; building; bus station; bus stop; calendar; camping; can; cap; capital; capital letter; car park; card; carpet; carrot; cartoon; case; cash; castle; cathedral; ceiling; cent; centimetre; century; cereal; chain; champagne; change; channel; chat; chef; chemist; chemistry; cheque; chess; chicken; church; cigarette; cleaner; club; climbing; cloud; clementine; club; coach; cola; cold; college; comb; comic; company; comparative; competition; concert; cook; cooking; cost; cousin; cream; cricket; crowd; cupboard; curry; curtain; customer; cycling; dancer; danger; degree; dentist; department; department store; desert; dessert; diary; digital camera; dinosaur; diploma; directions; disco; document; drawer; drawing; dream; drum; duck; earring; east; electricity; elephant; engine; engineer; entrance; envelope; euro; exam; examination; exercise; exit; fact; farmer; fashion; fast food; field; finger; fire; fishing; flight; fog; forest; fork; form; furniture; garlic; gas; gate; geography; gift; girlfriend; glove; goal; gold; golf; gram; grammar; grandchild; granddad; granddaughter; grandfather; grandma; grandmother; grandpa; grandparent; grandson; granny; grape; green; grey; guest; guide; hall; ham; handbag; headache; health; heart; heating; helicopter; help; hill; hip-hop; history; hobby; hockey; honey; housewife; ice; id card; idea; information; insect; instrument; island; jam; jazz; jewellery; journey; jumper; kick; kid; kilo; kilogram; kilometre; king; kiss; kit; kite; lake; laptop; leather; lemon; lemonade; level; library; light; line; lion; litre; luck; luggage; lunchtime; machine; magazine; magic; mail; main course; make-up; manager; mango; map; mark; market; match; mechanic; medicine; melon; member; memory; menu; metre; midday; midnight; mineral water; mirror; model; monkey; mosque; motorway; mountain; mouse; mp3 player; mug; mushroom; nature; neck; necklace; news; noon; north; notebook; notice; noun; nurse; occupation; office; oil; omelette; onion; opera; order; pain; painter; painting; partner; passenger; passport; pasta; pc; pear; pence; perfume; petrol; petrol station; photograph; photographer; photography; physics; piano; piece; pillow; pink; plan; plastic; playground; plural; pocket; police; police officer; police station; policeman; policewoman; pool; pop; post; post office; postcard; poster; present; price; prize; program; programme; project; pup; pupil; purple; purse; puzzle; quiz; rabbit; railway; raincoat; rat; reason; receipt; receptionist; red; rest; right; rock; roof; roundabout; rubber; rugby; ruler; runner; running; sailing; salad; sauce; sausage; scarf; schoolchild; science; scissors; screen; seat; second; secretary; set; shampoo; ship; shorts; show; side; sightseeing; sign; silver; singer; singing; sink; site; sitting room; size; skate; skateboard; skateboarding; skating; skiing; sky; snack; snake; snowboarding; soap; sock; soft drink; software; song; soul; sound; south; space; spelling; spoon; square; stadium; staff; stage; stairs; star; steak; stomach; storm; storey; suitcase; sunglasses; superlative; supper; surfing; surname; sweater; sweet; sweets; table tennis; team; teenager; telephone; temperature; term; text; text message; textbook; theatre; thunderstorm; tights; timetable; toast; toe; toothache; toothbrush; top; tour; tour guide; tourist; towel; toy; traffic; traffic light; tram; trip; type; umbrella; uncle; uniform; walk; walking; wallet; war; washing machine; web; web page; weekday; verb; west; wheel; white; video; video game; view; winner; violin; vocabulary; volleyball; wood; wool; worker; yellow; yogurt;

*Nouns belonging to language ability level B1 (694 nouns):*

ability; accent; account; accountant; ache; act; action; ad; advantage; advert; air conditioning; air force; airline; alarm; alphabet; amount; angel; animation; ankle; anniversary; ant; antique; application; architect; architecture; argument; arrangement; aspirin; athletics; atmosphere; attention; audience; author; average; backpack; backpacker; backpacking; bacon; baggage; baker; balcony; ballet; bandage; bank account; barber; basket; battle; bay; beauty; bee; beef; behaviour; benefit; bin; biography; birth; blog; blogger; bomb; bone; booking; border; boxing; bracelet; brake; branch; breast; breath; breeze; bride; broccoli; brochure; bucket; bug; bull; bunch; butcher; butterfly; button; buyer; cabbage; cabin; cable; calculator; calf; camel; camp; campsite; canal; cancer; candidate; candle; captain; care; career; cattle; cave; cd-rom; celebration; celebrity; central heating; ceremony; challenge; champion; championship; chance; charge; check; cheek; chest of drawers; chewing gum; childhood; chin; choice; circus; cliff; climate; clinic; coconut; cod; coin; collar; collection; comedy; comma; comment; common sense; communication; competitor; complaint; conclusion; conference; consonant; contents; contest; continent; contract; corn; correction; cottage; cotton; cough; count; courgette; court; crash; creature; crew; crime; criminal; crop; cucumber; culture; currency; curriculum; cushion; custom; customs; cut; cv; cyclist; machine; death; decision; defeat; definite article; demand; description; design; designer; destination; detective; diagram; diet; difficulty; direction; dirt; disadvantage; disappointment; disc; disc jockey; discussion; disease; dishwasher; disk; distance; district; diver; diving; divorce; dj; documentary; dolphin; donkey; dot; doubt; download; drama; drive; drop; dust; dustbin; duty; duvet; earth; economics; edge; education; effect; effort; elbow; election; embassy; emergency; employee; employer; employment; ending; enemy; energy; engineering; enquiry; entertainment; equipment; essay; event; exchange; exchange rate; excitement; excuse; exhibition; expedition; experience; experiment; expert; explanation; extreme sports; facilities; fair; fall; fare; farming; favourite; fear; fee; feeling; ferry; festival; fever; fiction; figure; fire station; firefighter; firework; firm; flag; flood; flour; flu; flute; fly; folk; forehead; fortnight; fountain; frame; freezer; friendship; frog; frying pan; fuel; full stop; fur; future; gallery; generation; ghost; giraffe; goalkeeper; goat; government; graphics; greeting; grill; groom; ground; guard; guitarist; gun; gym; gymnastics; habit; haircut; hairdresser; handkerchief; handwriting; happiness; harbour; hardware; headline; heart attack; heat; heater; heel; height; herb; hero; hole; honeymoon; hope; host; hostel; housework; hug; human; hunger; ice hockey; ice skating; illness; imagination; immigration; improvement; inch; indefinite article; industry; infinitive; ingredient; initial; ink; inquiry; instructor; interest; interview; invention; iron; ironing; issue; jail; jar; jogging; joke; journalist; judge; jug; jungle; kangaroo; keeper; kettle; killer; killing; kitten; knee; knowledge; lab; label; laboratory; ladder; lady; lamb; land; landscape; laugh; law; lawyer; leader; leaf; lecture; leisure; length; lettuce; lie; lighter; lightning; link; lip; liquid; literature; loan; logo; lorry; lottery; love; lover; madam; madman; marriage; material; meaning; membership; mess; message board; metal; mile; millimetre; mind; minimum; mix; monster; monument; mosquito; moustache; murder; murderer; musician; mystery; neighbourhood; nephew; niece; nightclub; nightlife; nightmare; northwest; novel; object; ocean; officer; olive; opinion; opinion; opportunity; opposite; orchestra; organization; oven; owner; palace; pan; pants; paragraph; parcel; parking; parrot; password; patient; pattern; pay; pea; peach; peacock; peak; peanut; pedestrian; penguin; penny; performance; performer; period; pharmacy; photocopy; phrasal verb; phrase; pie; pin; pineapple; pirate; planet; pleasure; poem; poet; poetry; point; politician; politics; pollution; population; pork; port; possibility; pot; prayer; preparation; preposition; presentation; president; priest; primary school; prince; princess;

prison; prisoner; profession; professor; promise; pronoun; pronunciation; property; public transport; pullover; pump; punctuation; puppy; purpose; push; qualification; quantity; question mark; questionnaire; rail; rainforest; reception; recipe; record; recording; recycling; refund; region; registration; relation; relaxation; religion; remote control; repair; reply; report; reporter; request; rescue; research; resort; respect; result; return; reward; review; robot; role; roll; rose; row; rubbish; rug; rule; run; sailor; salary; salesman; salmon; sand; sandal; saucer; saucer; scene; scenery; science fiction; scientist; score; sculpture; season; secondary school; secret; security; seller; sense; series; sex; shade; shadow; shape; shark; sheet; shore; shoulder; signature; silence; silk; single; sir; ski; skill; skin; sleep; sleeve; smell; smile; smoke; snowboard; soap opera; social networking; society; soldier; solution; southeast; souvenir; speech; speed; spice; spinach; spy; statue; step; stick; stone; store; strawberry; stream; strike; studio; study; style; success; suggestion; sum; sunrise; sunset; sunshine; support; supporter; sweatshirt; switch; system; tablet; talent; talk; taste; tax; teaching; technique; technology; temple; tent; thief; thought; throat; thumb; thunder; tick; tiger; tin; tip; tongue; toothpaste; tourism; tournament; tower; track; tracksuit; trade; traffic jam; training; translation; transport; travel; travel agent; trend; trouble; truck; trumpet; tube; tuna; tunnel; turkey; turn; turning; twin; uncountable; underpants; underwear; unemployment; unit; user; wage; valley; van; wardrobe; vase; waste; waterfall; wave; weather forecast; webcam; wedding; vegetarian; vehicle; weight; whale; wheelchair; video clip; wildlife; windscreen; windsurfing; wing; virus; volume; worry; worst; vote; vowel; writer; yard; yoga; youth; zone;

**Nouns belonging to language ability level B2 (701 nouns):**

abuse; accuracy; acid; addict; addiction; addition; admiration; adoption; advertising; affair; affection; agent; agreement; agriculture; aircraft; aluminium; ambassador; amusement; analysis; ancestor; anger; anxiety; apostrophe; appeal; arrest; arrow; assistance; atom; attachment; attempt; authority; availability; award; backup; badge; bakery; bang; banker; banking; bargain; barrier; basement; belief; bench; berry; bestseller; bikini; bite; blade; blame; bomber; bombing; bond; booklet; bookmark; boost; bow; bracket; brand; bravery; breakthrough; breed; brick; broadband; brother-in-law; bruise; budget; bulb; bullet; bun; burglar; burglary; calculation; campus; capacity; carbon; carbon dioxide; carbon footprint; carbon monoxide; carnival; cast; catering; cause; cell; cellar; cello; cemetery; certainty; characteristic; chart; chemical; cherry; chest; chimney; choir; citizen; civilization; claim; classic; clause; client; climate change; cloth; clothing; clue; coaching; code; coincidence; collocation; column; combination; comedian; comfort; commerce; commercial; commitment; committee; community; companion; composer; compromise; concentration; concept; concern; concrete; confidence; confirmation; confusion; consciousness; consequence; consideration; construction; consultant; consumer; container; content; contribution; convenience; cooperation; copper; corporation; corridor; costume; council; counter; county; courage; courtesy; coward; crab; craft; creation; creativity; crisis; critic; criticism; crocodile; cruelty; cure; curiosity; curve; cycle; darkness; dash; data; database; dawn; daylight; deal; debate; debit; debit card; debt; decade; deck; decline; decoration; deer; definition; delight; democracy; denim; desire; desktop; determination; determiner; device; devil; dialogue; diamond; dilemma; dimension; diplomat; disability; disagreement; disaster; discipline; disguise; dishonesty; dislike; distinction; dive; donation; dose; draft; drug; eagerness; eagle; earnings; earthquake; economist; economy; edition; efficiency; electrician; electronics; element; embarrassment; emotion; entertainment; enthusiasm; environment; envy; episode; equal; era; error; escalator; estate; evidence; evil; evolution; exclamation mark; exhaustion; existence; expense; explosion; export; extract; eyebrow; eyelash; eyelid; eyesight; failure; faith; fame; fantasy; fat; fate; feather; feedback; female; fence; finance; fingernail; first language; fisherman; flame; flash; fluency; force; fortune; fox; freedom; frost; frustration; function; funeral; gambling; gang; gardener; gardening; gear; gender; generosity; genetics; gentleman; global warming; god; gossip; graduate; graph; grave; greatness; grief; growth; guarantee; guilt; gun; hammer; handle; handout; hard drive; harm; harmony; harvest; headquarters; heaven; hedge; hell; helmet; hip; honesty; honour; horn; host; household; human rights; humour; hunting; hyphen; icon; idiom; idiot; image; immigrant; income; independence; individual; infection; inflation; injury; input; inspector; inspiration; institute; institution; insult; insurance; intelligence; intention; invasion; inventor; investigation; investigator; investment; investor; jaw; jewel; journalism; joy; judgment; junk food; jury; justice; kindness; landing; landlady; landlord; lane; lap; laser; laughter; laundry; laziness; lead; leaflet; leak; learner; learning; lecturer; leek; legend; leopard; liar; liberty; lid; lighting; litter; liver; living; loaf; loss; loyalty; lung; lyrics; majority; male; management; mankind; manual; manufacturer; manufacturing; marathon; marketing; martial art; mask; master; matter; mayor; measure; medal; microphone; mine; minority; miracle; misery; mist; misunderstanding; mixture; moonlight; motivation; motive; motor; motorist; mud; muscle; musical; myth; nation; native speaker; navy; need; nerves; network; nonsense; novelist; nuisance; oak; obligation; observation; opening; origin; overtime; owl; oxygen; pace; pack; pancake; panic; parachute; parade; parliament; partnership; passage; patience; pause; paw; payment; penalty; pension; percentage; personality; pharmacist; philosopher; philosophy; pine; pint; pitch; pity; planning; plot; plumber; poison; polar bear; policy; politeness; pond; popularity; portrait; possession; potential; pottery; poverty; prawn; prediction; preference; prefix; prejudice; presenter; presidency; pressure; prevention; pride; prime minister; principal; priority; privacy; procedure; production; professional; proof; proposal; protection; protest; psychologist; psychology; publication; publicity; publisher; pudding; punishment; quarrel; quiet; racism; rage; rainbow; rape; rate; razor; reach; reality; rebel; recession; recovery; recreation; referee; reference; reflection; refugee; regulation; rehearsal; relief; remains; remark; remedy; reputation; requirement; researcher; reserve; resident; resource; response; responsibility; retirement; revenge; revolution; rhythm; rib; rise; risk; robbery; rocket; roommate; root; rope; rumour; rush hour; sadness; safety; satellite; savings; scandal; scar; scent; scratch; seed; selection; self-confidence; semicolon; seminar; sensation; servant; setting; shed; shooting; shopkeeper; shot; sickness; signal; sister-in-law; skeleton; slave; slope; smoker; soil; soundtrack; source; specialist; species; spirit; spread; spreadsheet; stain; standard; state; statistics; steam; steel; steering wheel; stepmother; stock; storey; strategy; strength; string; stroke; structure; suburb; suffering; suffix; suicide; sunlight; supplier; surface; surgery; surroundings; survey; survival; suspect; swan; sweat; sword; syllable; symbol; sympathy; symptom; tail; target; task; teaspoon; telecommunications; telescope; temper; temptation; terminal; terms; terrace; terror; terrorism; terrorist; theft; theme; theory; therapy; thermometer; thesis; thigh; thigh; threat; tide; timing; toenail; tomb; ton; tone; tool; torch; tornado; touch; trace; tradition; tragedy; trail; tray; treasure; treatment; trekking; trial; triangle; tribe; trophy; truth; try; tutor; understanding; unhappiness; upgrade; waist; ward; warmth; wasp; weakness; wealth; weapon; welfare; verse; wheat; whisky; whistle; victory; widow; width; will; willingness; vinegar; violence; wire; virtual reality; wisdom; wish; vision; vitamin; witness; volcano; wolf; volunteer; worm; wound; voyage; wrist; x-ray; yacht; zebra;

**Nouns belonging to language ability level C1 (315 nouns):**

abortion; acceptance; adaptation; administration; aggression; aid; allegation; allowance; amateur; amendment; angle; annoyance; appetite; applause; archaeologist; archaeology; asset; assumption; assurance; auction; audition; awareness; bacteria; beak; blindness; boundary; brass; bribe; bronze; campaign; carriage; cholesterol; clutch; coal; collaboration; commodity; competence; complex; component; consent; constitution; consumption; contestant; controversy; corruption; coverage; cultivation; daycare; dedication; deficiency; delegate; density; deodorant; destiny; diesel; digestion; discomfort; discrimination; disorder; disrespect; disruption; dissertation; distraction; distress; draught; drawback; dump; duration; ecology; effectiveness; elegance; elite; emission; emperor; empire; enterprise; environmentalist; equation; erosion; establishment; evaluation; exaggeration; exhaust; exhibit; expenses; exploration; exposure; extinction; fabric; fairness; feast; fibre; formula; friction; fright; fund; funding; gadget; gain; garment; gene; generalization; genius; geology; gerund; gesture; globalization; greed; habitat; harassment; hate; hatred; hazard; heading; health care; historian; hospitality; housing; humanity; hygiene; iceberg; illustration; import; indication; industrialization; infrastructure; injustice; innocence; innovation; insight; inspection; installation; interaction; isolation; itinerary; jargon; jealousy; joint; journal; junk; knob; labour; landmark; launch; lawn; leadership; liability; limitation; literacy; log; logic; loneliness; lounge; machinery; magistrate; mansion; mat; mechanism; miner; mining; mode; move; nap; necessity; neglect; negotiation; nervousness; networking; newsletter; nickname; nomination; nutrition; obesity; obstacle; occurrence; odds; organ; overdraft; ownership; ozone; park; paradise; pastry; peasant; pensioner; perfection; personnel; phenomenon; pony; praise; predator; pregnancy; premises; principle; privilege; probability; productivity; programmer; progression; proposition; prosperity; prostitute; protein; provider; pulse; pyramid; radiation; rating; ratio; rebellion; recruitment; rectangle; redevelopment; register; reign; relevance; renovation; reproduction; reptile; republic; restriction; retail; revenue; richness; riot; rival; role model; rudeness; runaway; sack; sacrifice; saint; saving; scholar; sector; self; self-esteem; selfishness; sequence; serial; setback; sewing; shame; shuttle; shyness; side effect; simplicity; simulation; slang; slavery; slogan; slot; smog; socialist; solicitor; solidarity; solitude; spam; specification; spectrum; speculation; sphere; spokesman; spokesperson; sponsorship; staircase; stand; statistic; status; status symbol; stereotype; stock market; stocking; straw; stretch; strip; subsidy; subtitles; successor; summit; supervision; supervisor; surgeon; takeover; tank; teamwork; technician; techno; telly; therapist; tobacco; torture; trainee; transportation; trek; tuition; turnover; uncertainty; usage; walker; warrior; vegetation; veil; vein; well-being; vest; win; vine; wit; witch; workforce; workplace; workshop; youngster;

**Nouns belonging to language ability level C2 (0 nouns):**

No nouns.

Unique nouns in unique Wikipedia hyperlinks connecting unique nouns for observed vocabulary of A1&A2&B1&B2&C1&C2 (i.e. when range of language ability levels reached so far is A1–C2)

Altogether 2878 nouns with the following subdivision.

**Nouns belonging to language ability level A1 (283 nouns):**

adult; afternoon; age; animal; answer; apple; april; arm; august; baby; bag; ball; banana; band; bank; basketball; bathroom; beach; beard; bed; bedroom; beer; bird; birthday; biscuit; board; boat; body; book; bottom; box; boy; bread; breakfast; brother; bus; business; butter; café; cake; camera; car; cat; cd; cd player; chair; cheese; child; chip; chocolate; city; class; classroom; clock; clothes; coat; coffee; colour; computer; conversation; country; course; credit card; cross; cup; dad; dance; dancing; daughter; day; december; desk; dictionary; dining room; dinner; doctor; dog; doll; dollar; door; dress; drink; dvd; ear; email; end; evening; eye; face; factory; family; farm; father; february; film; fish; fish; floor; flower; food; foot; football; friday; friend; fruit; fun; game; garden; girl; glass; glasses; grass; group; guitar; hair; hand; hat; head; holiday; home; homework; horse; hospital; hotel; hour; house; husband; ice cream; jacket; january; jeans; juice; july; june; key; kind; kitchen; knife; language; leg; lesson; letter; life; living room; lunch; man; march; may; meal; meat; message; milk; minute; miss; mobile; mobile phone; monday; money; month; morning; mother; movie; mr; mrs; mum; museum; music; name; nationality; newspaper; night; noise; nose; note; november; number; october; page; paint; pair; paper; parent; park; part; party; pen; pencil; people; person; pet; phone; photo; picnic; picture; pig; pizza; place; plant; player; potato; problem; question; radio; rain; reading; restaurant; rice; river; road; room; salt; sandwich; saturday; school; sea; september; sheep; shirt; shoe; shop; shopping; shower; sister; skirt; smoking; snow; son; soup; sport; station; stop; street; student; sugar; summer; sun; sunday; supermarket; swimming pool; tea; teacher; television; tennis; test; the internet; thursday; time; today; toilet; tomato; tooth; town; train; tree; trousers; t-shirt; tuesday; tv; university; waiter; wall; watch; water; weather; website; wednesday; week; weekend; vegetable; wife; village; wind; window; wine; winter; woman; word; world; writing; year; zoo;

**Nouns belonging to language ability level A2 (483 nouns):**

accident; actor; adjective; adventure; adverb; advertisement; advice; aeroplane; air; airport; alarm clock; album; alcohol; ambulance; apartment; appointment; area; art; artist; aunt; autumn; back; badminton; balloon; barbecue; baseball; bat; bean; bear; bicycle; bike; bill; biology; bit; black; blackboard; blanket; blue; board game; bookcase; bookshelf; boot; boss; bottle; bowl; boyfriend; brain; break; bridge; brown; brush; building; bus station; bus stop; calendar; camping; can; cap; capital; capital letter; car park; card; carpet; carrot; cartoon; case; cash; castle; cathedral; ceiling; cent; centimetre; century; cereal; chain; champagne; change; channel; chat; chef; chemist; chemistry; cheque; chess; chicken; church; cigarette; clean; cleaner; click; climbing; cloud; clown; club; coach; cola; cold; colleague; college; comb; comb; company; comparative; competition; concert; cook; cooking; cost; cousin; cream; cricket; eraser; cupboard; curly; curtain; customer; cycling; dancer; danger; degree; dentist; department; department store; desert; dessert; diary; digital camera; dinosaur; diploma; directions; disco; document; drawer; drawing; dream; drum; duck; earning; east; electricity; elephant; engine; engineer; entrance; envelope; euro; exam; examination; exercise; exit; fact; farmer; fashion; fast food; field; finger; fire; fishing; flight; fog; forest; fork; form; furniture; garlic; gas; gate; geography; gift; girlfriend; glove; goal; gold; golf; gram; grammar; grandchild; granddad; granddaughter; grandfather; grandma; grandmother; grandpa; grandparent; grandson; granny; grape; green; grey; guest; guide; hall; ham; handbag; headache; health; heart; heating; helicopter; help; hill; hip-hop; history; hobby; hockey; honey; housewife; ice; id card; idea; information; insect; instrument; island; jam; jazz; jewellery; journey; jumper; kick; kid; kilo; kilogram; kilometre; king; kiss; kit; kite; lake; laptop; leather; lemon; lemonade; level; library; light; line; lion; litre; luck; luggage; lunchtime; machine; magazine; magic; mail; main course; make-up; manager; mango; map; mark; market; match; mechanic; medicine; meeting; melon; member; memory;

menu; metre; midday; midnight; mineral water; mirror; model; monkey; mosque; motorway; mountain; mouse; mp3 player; mug; mushroom; nature; neck; necklace; news; noon; north; notebook; notice; noun; nurse; occupation; office; oil; omelette; onion; opera; order; pain; painter; painting; partner; passenger; passport; pasta; pc; pear; pence; perfume; petrol; petrol station; photograph; photographer; photography; physics; piano; piece; pillow; pink; plan; plastic; playground; plural; pocket; police; officer; police station; policeman; policewoman; pool; pop; post; post office; postcard; poster; present; price; prize; program; programme; project; pub; pupil; purple; purse; puzzle; quiz; rabbit; railway; raincoat; rat; reason; receipt; receptionist; red; rest; right; rock; roof; roundabout; rubber; rugby; ruler; runner; running; sailing; salad; sauce; sausage; scarf; schoolchild; science; scissors; screen; seat; second; secretary; set; shampoo; ship; shorts; show; side; sightseeing; sign; silver; singer; singing; sink; site; sitting room; size; skate; skateboard; skateboarding; skating; skiing; sky; snack; snake; snowboarding; soap; sock; soft drink; softwear; song; soul; sound; south; space; spelling; spoon; square; stadium; staff; stage; stairs; star; steak; stomach; storm; story; suitcase; sunglasses; superlative; supper; surfing; surname; sweater; sweet; tennis; team; teenager; telephone; temperature; term; text; text message; textbook; theatre; thunderstorm; tights; timetable; toast; toe; toothache; toothbrush; top; tour; tour guide; tourist; towel; toy; traffic; traffic light; tram; trip; tune; type; umbrella; uncle; uniform; walk; walking; wallet; war; washing machine; way; web page; weekday; verb; west; wheel; white; video; video game; view; winner; violin; vocabulary; volleyball; wood; wool; worker; yellow; yogurt;

**Nouns belonging to language ability level B1 (706 nouns):**

ability; accent; account; accountant; ache; act; action; ad; advantage; advert; air conditioning; air force; airline; alarm; alphabet; amount; angel; animation; ankle; anniversary; ant; antique; application; architect; architecture; argument; arrangement; aspirin; athletics; atmosphere; attention; audience; author; average; background; backpack; backpacker; backpacking; bacon; baggage; baker; balcony; ballet; bandage; bank account; barber; basket; battle; bay; beauty; bee; beef; behaviour; benefit; bin; biography; birth; blog; blogger; bomb; bone; booking; border; boxing; bracelet; brake; branch; breast; breath; breeze; bride; broccoli; brochure; bucket; bug; bull; bunch; butcher; butterfly; button; buyer; cabbage; cabin; cable; calculator; calf; camel; camp; campsite; canal; cancer; candidate; candle; captain; care; career; cattle; cave; cd-rom; celebration; celebrity; central heating; ceremony; challenge; champion; championship; chance; charge; check; cheek; chest of drawers; chewing gum; childhood; chin; choice; circus; cliff; climate; clinic; coast; coconut; cod; coin; collar; collection; comedy; comma; comment; common sense; communication; competitor; complaint; conclusion; conference; consonant; contents; contest; continent; contract; corn; correction; cottage; cotton; cough; count; courthouse; court; crash; creature; credit; crew; crime; criminal; crop; cucumber; culture; currency; curriculum; cushion; custom; customs; cut; cv; cyclist; damage; death; decision; defeat; definite article; delivery; demand; description; design; designer; destination; detail; detective; diagram; diet; difficulty; direction; dirt; disadvantage; disappointment; disc; disc jockey; discussion; disease; dishwasher; disk; distance; district; diver; diving; divorce; dj; documentary; dolphin; donkey; dot; doubt; download; drama; drive; drop; dust; dustbin; duty; duvet; earth; economics; edge; education; effect; effort; elbow; election; embassy; emergency; employee; employer; employment; ending; enemy; energy; engineering; enquiry; entertainment; equipment; essay; event; exchange; exchange rate; excitement; excuse; exhibition; experience; experiment; expert; explanation; extreme sports; facilities; fair; fall; fare; farming; favourite; fear; fee; feeling; ferry; festival; fever; fiction; fight; figure; fire station; firefighter; firework; firm; flag; flood; flour; flu; flute; fly; folk; fool; forehead; fortnight; fountain; frame; freezer; friendship; frog; frying pan; fuel; full stop; fur; future; gallery; generation; ghost; giraffe; goalkeeper; goat; government; graphics; greeting; grill; ground; guard; guitarist; gun; gym; gymnastics; habit; haircut; hairdresser; handkerchief; handwriting; happiness; harbour; hardware; headline; heart attack; heat; heater; herb; hero; hulk; honeymoon; hope; hostel; housework; hug; human; hunger; ice hockey; ice skating; illness; imagination; immigration; importance; improvement; inch; indefinite article; industry; infinitive; ingredient; initial; ink; inquiry; instructor; interest; interview; invention; iron; ironing; issue; jail; jar; jogging; joke; journalist; judge; jug; jump; jungle; kangaroo; keeper; kettle; killer; killing; kitten; knee; knowledge; lab; label; laboratory; ladder; lady; lamb; land; landscape; laugh; law; lawyer; leader; leaf; lecture; leisure; length; lettuce; lie; lighter; lightning; link; lip; liquid; literature; loan; logo; lorry; lottery; love; lover; madam; marriage; material; meaning; membership; mess; message board; metal; mile; millimetre; mind; minimum; mix; monster; monument; mosquito; moustache; murder; murderer; musician; mystery; neighbourhood; nephew; niece; nightclub; nightlife; nightmare; northeast; novel; object; ocean; officer; olive; operation; opinion; opportunity; opposite; orchestra; organization; oven; owner; palace; pan; pants; paragraph; parcel; parking; parrot; password; patient; pattern; pay; pea; peace; peach; peak; peanut; pedestrian; penguin; penny; performance; performer; period; pharmacy; photocopy; phrasal verb; phrase; pie; pin; pineapple; pirate; planet; pleasure; poem; poet; poetry; point; political; pollution; population; pork; port; possibility; pot; prayer; preparation; preposition; presentation; president; priest; primary school; prince; princess; prison; prisoner; profession; professor; promise; pronoun; pronunciation; property; public transport; pullover; pump; punctuation; puppy; purpose; push; qualification; quantity; question mark; questionnaire; rail; rainforest; reception; recipe; record; recording; recycling; refund; region; registration; relation; relaxation; religion; remote control; repair; reply; report; reporter; request; rescue; research; resort; respect; result; return; reward; review; robot; roll; rolf; rose; row; rubbish; rug; rule; run; sailor; salary; salesman; salmon; sand; sandal; sauceman; saucer; scene; scenery; science fiction; scientist; score; sculpture; season; secondary school; secret; security; seller; sense; series; sex; shade; shadow; shape; shark; sheet; shore; shoulder; signature; signpost; silence; silk; single; sir; ski; skill; skin; sleep; sleeve; smell; smile; smoke; snowboard; soap opera; social networking; society; soldier; solution; southeast; souvenir; speech; speed; spice; spider; spinach; spy; stall; statue; steam; stick; stone; store; strawberry; stream; strike; studio; study; success; suggestion; sum; sunrise; sunset; sunshine; support; supporter; sweatshirt; switch; system; tablet; talent; talk; taste; tax; teaching; technique; technology; temple; tent; thief; thought; throat; thumb; thunder; lick; tiger; tin; tip; title; tongue; toothpaste; tourism; tournament; tower; track; tracksuit; trade; traffic jam; training; translation; transport; travel; travel agent; trend; trouble; truck; trumpet; tube; tuna; tunnel; turkey; turn; turning; twin; uncountable; underpants; underwear; unemployment; union; unit; user; wage; valley; van; wardrobe; vase; waste; waterfall; wave; water; weather forecast; webcam; wedding; vegetarian; vehicle; weight; vet; whale; wheelchair; video clip; wildlife; windscreens; windsurfing; wing; virus; volume; worry; worst; vote; vowel; writer; yard; yoga; youth; zone;

**Nouns belonging to language ability level B2 (718 nouns):**

abuse; accuracy; acid; addict; addiction; addition; admiration; adoption; advertising; affair; affection; agent; agreement; agriculture; aircraft; aluminium; ambassador; amusement; analysis; ancestor; anger; anxiety; apostrophe; appeal; arrest; arrow; assistance; atom; attachment; attempt; authority; availability; award; backup; badge; bakery; bang; banker; banking; bargain; barrier; basement; belief; bench; berry; bestseller; bikini; bite; blade; blame; bomber; bombing; bond; booklet; bookmark; boost; bow; bracket; brand; bravery; breakthrough; breed; brick; broomband; brother-in-law; bruise; budget; bulb; bullet; bun; burglar; burglary; calculation; camp; capacity; carbon; carbon dioxide; carbon footprint; carbon monoxide; carelessness; carnival; cast; catering; cause; cell; cellar; cable; cemetery; certainty; characteristic; charm; chart; chemical; cherry; chest; chimney; choir; citizen; civilization; claim; classic; clause; climate change; cloth; clothing; clue; coaching; code; coincidence; collocation; colour; combination; comedian; comfort; commerce; commercial; commitment; committee; community; companion; composer; compromise; concentration; concept; concern; concrete; confession; confidence; confirmation; conflict; confusion; consciousness; consequence; conservation; consideration; construction; consultant; consumer; container; content; contribution; control; convenience; cooperation; copper; corporation; corridor; costume; council; counter; county; courage; courtesy; coward; crab; craft; creation; creativity; crisis; critic; criticism; crocodile; cruelty; cure; curiosity; curve; cycle; darkness; dash; data; database; dawn; daylight; deal; debate; debit; debit card; debt; decade; deck; decline; decoration; deer; definition; delight; democracy; denim; desire; desktop; determination; determiner; device; devil; dialogue; diamond; dilemma; dimension; diplomat; disability; disagreement; disaster; discipline; disguise; dishonesty; dislike; distinction; dive; donation; dose; draft; drug; eagerness; eagle; earnings; earthquake; economist; economy; edition; efficiency; electrician; electronics; element; embarrassment; emotion; enjoyment; entertainer; enthusiasm; environment; envy; episode; equal; era; error; escalator; estate; evidence; evil; evolution; exclamation mark; exhaustion; existence; expense; explosion; export; extract; eyebrow; eyelash; eyelid; eyesight; facility; failure; faith; fame; fantasy; fat; fate; fault; feather; feedback; female; fence; fighting; finance; fingernail; first language; fisherman; flame; flash; fluency; force; fortune; fox; freedom; frost; frustration; function; funeral; gambling; gang; gardener; gardening; gear; gender; generosity; genetics; gentleman; global warming; god; gossip; graduate; graph; grave; greatness; grief; growth; guarantee; guilt; gun; hammer; handle; handout; hard drive; hard; harmony; harvest; headquarters; heaven; hedge; hell; helmet; hip; hold; honesty; honour; horn; host; household; human rights; humour; hunting; hyphen; icon; identity; idiom; image; immigrant; income; independence; individual; infection; inflation; injury; input; inspector; inspiration; institute; institution; insult; insurance; intelligence; intention; invasion; inventor; investigation; investigator; investment; investor; jaw; jewel; journalism; joy; judgment; junk food; jury; justice; kindness; kingdom; landing; landlady; landlord; lane; lap; laser; laughter; laundry; laziness; lead; leaflet; leak; learner; learning; lecturer; leek; legend; leopard; liar; liberty; lid; lighting; litter; liver; living; load; loaf; loss; loyalty; lung; lyrics; majority; male; management; mankind; manual; manufacturer; manufacturing; marathon; marketing; martial art; mask; master; matter; mayor; measure; measurement; medal; mention; microphone; mine; minority; miracle; misery; mist; misunderstanding; mixture; moonlight; motivation; motive; motor; motorist; mud; muscle; musical; myth; nation; native speaker; navy; need; nerves; network; nonsense; novelist; nuisance; oak; obligation; observation; opening; origin; overtime; owl; oxygen; pace; pack; pancake; panic; parachute; parade; parliament; partnership; passage; patience; pause; paw; payment; penalty; pension; percentage; personality; pharmacist; philosopher; philosophy; pine; pin; pitch; pity; planning; plot; plumber; poison; polar bear; policy; politeness; pond; popularity; portrait; possession; potential; pottery; poverty; prawn; prediction; preference; prefit; prejudice; presenter; presidency; pressure; prevention; pride; prime minister; principal; priority; privacy; procedure; production; professional; proof; proposal; protest; psychologist; psychology; publication; publicity; publisher; pudding; punishment; quarrel; query; quiet; racism; rape; rate; razor; reach; reality; rebel; recession; recovery; recreation; referee; reference; reflection; refugee; regulation; rehearsal; relief; remains; remark; remedy; reputation; requirement; researcher; reserve; resident; resource; response; responsibility; retirement; revenge; revolution; rhythm; rib; rise; risk; robbery; rocket; roommate; root; rope; rumour; rush hour; sadness; safety; satellite; savings; scandal; scar; scent; scratch; seed; selection; self-confidence; semicolon; seminar; sensation; servant; setting; shed; shelter; shooting; shopkeeper; shot; sickness; signal; similarity; sister-in-law; skeleton; slave; slope; smoker; soil; soundtrack; source; specialist; species; spirit; spread; spreadsheet; stain; standard; state; statistics; steam; steel; steering wheel; stepmother; stock; storage; storey; strategy; strength; string; stroke; structure; substance; suburb; suffering; suffix; suicide; sunlight; supplier; surface; surgery; surroundings; survey; survival; suspect; swan; sweat; sword; syllable; symbol; sympathy; symptom; tail; tale; target; task; teaspoon; telecommunications; telescope; temper; temptation; tension; terminal; terms; terrace; terror; terrorism; terrorist; theft; theme; theory; thermometer; thesis; thigh; threat; tide; timing; toenail; tomb; ton; tone; torch; tornado; touch; trace; tradition; tragedy; trail; tray; treasure; treatment; trekking; trial; triangle; tribe; trophy; truth; try; tutor; understanding; unhappiness; upgrade; waist; ward; warmth; wasp; weakness; wealth; weapon; welfare; verse; wheat; whisky; whistle; victory; widow; width; will; willingness; vinegar; violence; wire; virtual reality; wisdom; wish; vision; vitamin; witness; volcano; wolf; volunteer; worm; wound; voyage; wrist; x-ray; yacht; zebra;

**Nouns belonging to language ability level C1 (328 nouns):**

abortion; acceptance; adaptation; administration; aggression; aid; allegation; allowance; amateur; amendment; angle; annoyance; appetite; archaeologist; archaeology; asset; assumption; assurance; auction; audition; awareness; bacteria; beak; blindness; boundary; brass; bribe; bronze; campaign; carriage; cholesterol; clutch; coal; collaboration; commodity; competence; complex; component; consent; constitution; consumption; contestant; controversy; convention; corruption; coverage; cultivation; daycare; dedication; deficiency; delegate; density; deodorant; deputy; destiny; diesel; digestion; discomfort; discrimination; disorder; disrespect; disruption; dissertation; distraction; distress; draught; drawback; dump; duration; ecology; effectiveness; elegance; elite; emission; emperor; empire; enterprise; environmentalist; equation; erosion; establishment; evaluation; exaggeration; exhaust; exhibit; expenses; exploration; exposure; extinction; fabric; fairness; feast; fibre; formula; friction; fright; fund; funding; gadget; gain; garment; gene; generalization; genius; geology; gerund; gesture; globalization; greed; habitat; harassment; hate; hatred; hazard; health care; historian; hospitality; housing; humanity; hygiene; iceberg; idol; illustration; import; indication; industrialization; infrastructure; initiative; injustice; innocence; innovation; insight; inspection; installation; integration; interaction; isolation; itinerary; jargon; jealousy; joint; journal; junk; knob; labour; landmark; launch; lawn; leadership; liability; limitation; literacy; log; logic; loneliness; lounge; machinery; magistrate; mammal; mansion; mat; mechanism; miner; mining; mode; move; nap; necessity; neglect; negotiation; nervousness; networking; newsletter; nickname; nomination; nutrition; obesity; obstacle; occurrence; odds; optimist; organ; overdraft; ownership; ozone; panel; paradise; pastry; peasant; pensioner; perfection; personnel; phenomenon; pony; praise; predator; pregnancy; premises; preservation; principle; privilege; productivity; programmer; progression; proposition; prosperity; prostitute; protein; provider; pulse; purity; pyramid; radiation; rank; rating; ratio; rebellion; recruitment; rectangle; redevelopment; register; reign; relevance; renovation; reproduction; reptile; republic; restriction; retail; revenue; richness; riot; rival; role model; rudeness; runaway; sack; saving; scholar; scholarship; sector; self; self-esteem; selfishness; sequence; serial; setback; sewing; shame; shuttle; shyness; side effect; simplicity; simulation; slang; slavery; slogan; slot; smog; socialist; solicitor; solidarity; solitude; spam; specification; spectrum; speculation; sphere; spokesman; spokesperson; sponsorship; staircase; stamina; stand; statistic; status; status symbol; stereotype; stock market; stocking; straw; stretch; strip; subsidy; subtitles; successor; summit; superior; supervision; supervisor; surgeon; takeover; tank; teamwork; technician; techno; telly; therapist; tobacco; torture; trainee;

transportation; trek; tuition; turnover; uncertainty; unity; usage; walker; warrior; vegetation; veil; vein; well-being; vest; win; vine; wit; witch; workforce; workplace; workshop; youngster;

*Nouns belonging to language ability level C2 (360 nouns):*

acre; adolescent; advocate; alcoholic; alliance; ambiguity; analogy; anchor; antibiotic; arch; army; artificial intelligence; aspiration; assault; assembly; astronomy; attribute; awe; bark; barn; bet; bias; blackmail; blend; blister; bribery; bureaucracy; burial; capitalism; cargo; casserole; casualty; catastrophe; chancellor; chapel; charisma; cheerfulness; chill; circulation; civilian; clash; cliché; coastline; coldness; combat; comeback; commander; complexion; complexity; conception; confrontation; conscience; consensus; contempt; contraception; contraceptive; contradiction; conversion; conviction; cookie; coral; core; corpse; coup; crack; crackdown; credibility; crystal; cutlery; deception; delegation; denial; deprivation; descendant; desperation; diagnosis; dialect; dice; dignity; diplomacy; discretion; disgust; disposable income; disposition; dispute; dna; dominance; donor; doom; doorway; drought; echo; embrace; empathy; endurance; entity; essence; exile; expenditure; explosive; fake; famine; fireplace; fist; flesh; fluid; follower; forgery; forgiveness; fragrance; fraud; frenzy; frontier; frown; gamble; glue; goodness; grain; grasp; grin; hail; heir; heritage; hesitation; hierarchy; homelessness; horizon; hostage; hostility; humility; hypocrisy; hypothesis; ignorance; illusion; imitation; immune system; impatience; implementation; impossibility; imprisonment; incentive; inclination; individuality; infancy; infant; inheritance; insecurity; insomnia; instinct; instruction; integrity; intellect; intellectual; intensity; intent; interpretation; intervention; intruder; intrusion; irony; irritation; kidney; knot; knuckle; legislation; likelihood; linen; loathing; local; loft; longevity; massacre; masterpiece; materialism; materialist; medication; melody; memorial; mercy; merger; metaphor; millennium; missile; momentum; monopoly; morale; mortality; motion; narrative; narrator; negligence; nerve; nest; nostalgia; nostril; novelty; observer; official; offspring; omission; openness; optimism; ordeal; ornament; orphan; outbreak; output; pact; paradigm; paradox; parallel; particle; pastime; patch; peer pressure; perception; persistence; persuasion; plea; pole; precedent; presumption; prey; proceedings; procession; produce; propaganda; prosecution; prosecutor; protagonist; proverb; province; proximity; psychiatrist; quest; quotation; quote; racist; raid; rash; realm; reasoning; recognition; recollection; recruit; referendum; reform; refuge; regime; relish; remorse; representation; resemblance; resentment; residence; resignation; resilience; resistance; resolution; restraint; retailer; retreat; revelation; reversal; rhyme; ribbon; riches; ritual; rivalry; round; ruling; saddle; sail; saying; scarcity; scenario; schooling; scrap; self-assurance; self-awareness; self-control; self-discipline; self-respect; sensibility; sentiment; shield; sibling; simplification; sin; sincerity; siren; skull; slap; slaughter; snob; socialism; sorrow; spade; spark; spite; spouse; squad; stable; starvation; stimulus; strand; strap; stupidity; sufferer; superiority; suspense; sustainability; syllabus; synonym; talks; taxpayer; tenderness; thinker; threshold; throne; timber; toddler; toughness; tractor; trait; tranquility; trash; treat; treaty; tribute; trilogy; troops; undertaking; unrest; vaccination; vaccine; validity; vandalism; vanity; warehouse; weed; velvet; verdict; veteran; whim; vice; wilderness; villager; willpower; virgin; virtue; vitality; withdrawal; vocation; woodland; workaholic; worship; vow; wrinkle; xenophobia;

(empty on purpose)

## Appendix AE

As discussed in Subchapter 12.2, this listing shows in respect to Oxford Wordlist for each vocabulary of school levels ranging from Preparatory to Year 4 unique nouns in unique Wikipedia hyperlinks connecting unique nouns in vocabulary so that nouns are listed separately for each school level (please note that nouns were extracted from Oxford Wordlist based on co-occurrence among nouns of C2 vocabulary of English Vocabulary Profile). For each observed vocabulary ranging from Preparatory to Year 4 a full listing of unique Wikipedia hyperlinks connecting unique nouns in vocabulary can be extracted from listing shown in Appendix AC by taking into consideration only those hyperlinks whose start concept and end concept belong to nouns of currently observed vocabulary among vocabularies ranging from Preparatory to Year 4.

In contrast with Appendix AD, please note that concepts of consecutive ranges of language ability levels of English Vocabulary profile can be considered cumulative so that next ranges of language ability levels almost always (with very few exceptions) contain all concepts belonging to all previous ranges of language ability levels whereas consecutive vocabularies of Oxford Wordlist can be considered only partially cumulative since there is only partial overlap between consecutive vocabularies. These two different kinds of behavior affect also interpretation of Wikipedia hyperlinks connecting unique nouns in respect to both Oxford Wordlist and English Vocabulary Profile so that these hyperlinks can be considered cumulative for English Vocabulary Profile whereas hyperlinks can be considered only partially cumulative for Oxford Wordlist since there is only partial overlap.

Unique nouns in unique Wikipedia hyperlinks connecting unique nouns for observed vocabulary of Preparatory (i.e. vocabulary of school level Preparatory)

*Alltogether 505 nouns with the following subdivision.*

*Nouns belonging to school level Preparatory (505 nouns):*

accident; aeroplane; afternoon; air; airport; ambulance; angel; animal; ant; apple; area; arm; army; art; august; baby; back; bacon; badge; bag; ball; ballet; balloon; banana; barbecue; bark; basket; basketball; bat; battle; beach; bear; bed; bird; birthday; biscuit; bit; bite; black; blood; blue; boat; bomb; bone; book; bottle; bowl; box; boy; branch; bread; breakfast; bride; bridge; brother; brush; bus; butterfly; cabbage; cake; camera; camping; can; candle; car; case; cash; castle; cat; cave; cereal; chair; champion; chart; cheese; cherry; chess; chicken; child; chocolate; circus; city; class; classroom; climbing; clinic; cloud; clown; club; coast; cold; colour; competition; computer; concert; cookie; costume; country; court; cousin; crab; crash; crew; cricket; crocodile; cross; crowd; cup; cushion; dance; dancing; day; december; desert; desk; dessert; devil; diary; dinner; dinosaur; disco; diving; dog; doll; dolphin; door; drawing; dream; dress; drink; drive; duck; dvd; eagle; ear; earth; electricity; elephant; engine; evening; face; factory; fair; family; farm; farmer; fat; favourite; feeling; fence; ferry; festival; finger; fire; fish; fishing; flame; floor; flower; flute; fly; food; foot; football; fork; fox; friday; friend; frog; fruit; game; garden; gardening; gas; gear; ghost; giraffe; girl; glove; goal; gold; golf; grass; green; grey; guitar; gun; gymnastics; hair; hall; hand; hat; hate; head; headache; heart; heaven; helicopter; helmet; hero; hill; hip; history; hockey; holiday; home; homework; honey; hope; horse; hospital; hotel; house; hunting; idea; ink; island; jacket; jail; jam; jazz; jeans; juice; june; jungle; kangaroo; kick; kid; king; kitchen; kite; kitten; ladder; lake; land; language; leg; lemon; leopard; lesson; lettuce; level; library; light; lighter; lightning; line; lion; lounge; love; lunch; machine; magazine; man; market; mat; match; meal; meat; medal; medicine; metal; milk; mind; miss; model; monday; monkey; monster; morning; mother; mouse; movie; mrs; mud; mug; mum; museum; music; musical; name; nap; neck; news; newspaper; night; noise; nose; number; ocean; office; orchestra; paint; pair; palace; pancake; paper; parade; parent; park; partner; party; pasta; patch; peace; pear; pencil; penguin; people; person; pet; picnic; picture; pie; piece; pig; pillow; pineapple; pink; pirate; pizza; plan; planet; playground; poison; pole; police; pond; pony; present; prince; princess; prize; professor; project; pub; puppy; purple; rabbit; radio; rain; rainbow; rectangle; red; reptile; rescue; restaurant; rice; river; road; robot; rocket; roof; room; ruler; run; runner; running; sack; safety; salad; sand; sandwich; saturday; sauce; sausage; school; science; sea; second; secret; set; shark; shed; sheep; ship; shirt; shoe; shop; shopping; show; shower; side; singing; sink; siren; skate; skateboard; skateboarding; skating; skeleton; ski; skiing; sky; sleep; snake; snow; song; sound; soup; space; speed; spelling; spider; sport; stage; stairs; star; storey; storm; story; street; sugar; summer; sun; sunday; sweet; sword; system; tail; tea; teacher; team; television; temple; tennis; tent; theatre; thought; thumb; thunder; thursday; tiger; timber; time; today; toe; toilet; tomato; tooth; top; torch; town; toy; tractor; traffic; trail; train; training; travel; treasure; tree; triangle; trip; trophy; truck; tuesday; turn; turning; tv; type; umbrella; uncle; walk; walking; wall; war; watch; water; waterfall; wave; way; wedding; wednesday; week; weekend; vest; west; whale; wheel; whistle; white; video; village; wind; window; winner; winter; witch; volcano; wolf; woman; wood; world; worm; writing; yard; year; yellow; zebra; zoo;

*Nouns belonging to school level Year 1 (370 nouns):*

aeroplane; afternoon; ambulance; animal; apple; arm; army; art; baby; bacon; bag; ball; ballet; balloon; barbecue; basket; basketball; bat; battle; beach; bear; bed; bird; birthday; biscuit; bit; black; blood; blue; boat; book; bottle; box; boy; bread; breakfast; brother; brush; bus; butterfly; cake; camping; can; candle; car; cash; castle; cat; cave; cereal; chair; cheese; chess; chicken; child; chocolate; circus; city; class; classroom; climbing; clown; club; cold; colour; competition; computer; concert; cookie; court; cousin; crash; cricket; crocodile; cross; cup; dance; dancing; day; december; desert; desk; devil; dinner; dinosaur; disco; diving; dog; doll; dolphin; door; drawing; dream; dress; drink; drive; duck; dvd; eagle; ear; earth; elephant; engine; evening; face; factory; fair; family; farm; farmer; fat; favourite; fire; fish; fishing; floor; flower; fly; food; foot; football; fox; friday; friend; frog; fruit; game; garden; gardening; gear; ghost; giraffe; girl; goal; gold; golf; grass; green; grey; guitar; gun; gymnastics; hair; hall; hand; hat; head; headache; heart; heaven; helicopter; hero; hill; holiday; home; homework; honey; hope; horse; hospital; hotel; house; hunting; idea; island; jacket; jail; june; jungle; kangaroo; kick; kid; king; kitten; lake; land; leg; lemon; leopard; lettuce; library; light; lightning; line; lion; lounge; love; lunch; machine; man; market; mat; match; meal; meat; medal; medicine; metal; milk; miss; monday; monkey; monster; morning; mother; mouse; movie; mrs; mud; mum; music; musical; name; neck; night; noise; number; ocean; paint; pair; palace; paper; parent; park; party; patch; pencil; penguin; people; person; pet; picnic; piece; pig; pink; pirate; pizza; plan; planet; playground; poison; pole; police; pond; pony; present; prince; princess; prize; pub; puppy; purple; rabbit; rain; rainbow; red; rescue; restaurant; river; road; robot; rocket; roof; room; run; running; safety; salad; sand; sandwich; saturday; sauce; school; science; sea; second; set; shark; shed; sheep; ship; shop; shopping; show; shower; side; singing; sink; siren; skateboard; skeleton; ski; skiing; sky; sleep; snake; snow; song; sound; soup; space; speed; spider; sport; stairs; star; storm; story; street; sugar; summer; sun; sunday; sword; tail; tea; teacher; team; tennis; tent; thought; thunder; thursday; tiger; time; today; toilet; tomato; tooth; top; town; toy; tractor; train; training; travel; treasure; tree; trophy; truck; tuesday; turn; turning; tv; type; uncle; walk; walking; wall; war; watch; water; way; wedding; wednesday; week; weekend; whale; wheel; whistle; white; village; window; winter; witch; wolf; woman; wood; world; writing; yard; year; yellow; zoo;

*Nouns belonging to school level Year 2 (415 nouns):*

aeroplane; afternoon; air; airport; ambulance; animal; ant; apple; arm; army; art; august; baby; back; bacon; badge; bag; ball; balloon; banana; barbecue; bark; basketball; bat; battle; beach; bear; bed; bird; birthday; biscuit; bit; bite; black; blood; blue; boat; bomb; bone; book; bottle; bowl; box; boy; bread; breakfast; bridge; brother; brush; bus; butterfly; cabbage; cake; camera; camping; can; candle; car; case; cash; castle; cat; cave; cereal; chair; chess; chicken; chocolate; city; class; classroom; climbing; cloud; clown; club; cold; colour; competition; computer; cookie; country; court; cousin; crab; crash; crew; cricket; crocodile; cross; cup; dance; dancing; day; december; desert; desk; dessert; devil; diary; dinner; dinosaur; disco; diving; dog; doll; dolphin; door; drawing; dream; dress; drink; drive; duck; dvd; eagle; ear; earth; elephant; engine; evening; face; factory; fair; family; farm; farmer; fat; favourite; feeling; fence; ferry; fire; fish; fishing; flame; floor; fly; food; foot; football; fox; friday; friend; frog; fruit; game; garden; gardening; gear; ghost; giraffe; girl; goal; gold; golf; grass; green; grey; guitar; gun; gymnastics; hair; ham; hand; hat; hate; head; headache; heart; hero; hill; hip; history; hockey; holiday; home; homework; honey; hope; horse; hospital; hotel; house; hunting; idea; ink; island; jacket; jail; jam; jazz; jeans; juice; june; jungle; kangaroo; kick; kid; king; kitten; kite; ladder; lake; land; leg; lemon; leopard; lesson; level; library; light; lightning; line; lion; lounge; love; lunch; machine; man; market; match; meal; meat; medal; medicine; metal; milk; mind; miss; monday; monkey; monster; morning; mother; mouse; movie; mrs; mud; mug; mum; museum; music; musical; name; nap; neck; news; newspaper; night; noise; nose; number; ocean; paint; pair; palace; pancake; paper; parade; parent; park; partner; party; pasta; patch; peace; pencil; penguin; people; person; pet; pie; piece; pig; pillow; pink; pirate; pizza; plan; planet; plant; playground; pole; police; pond; pony; present; prince;



princess; prize; professor; puppy; purple; rabbit; radio; rain; rainbow; red; rescue; restaurant; rice; river; road; robot; rocket; roof; room; run; running; sack; salad; sand; sandwich; saturday; sausage; school; science; sea; second; secret; set; shark; shed; sheep; ship; shoe; shop; shopping; shower; side; singing; siren; skate; skeleton; sky; sleep; snake; snow; song; sound; soup; space; speed; spelling; spider; stage; stairs; star; storey; storm; story; street; summer; sun; sunday; tail; tea; teacher; team; tent; thought; thursday; tiger; timber; time; today; toe; toilet; tooth; top; torch; town; toy; tractor; train; training; treasure; tree; triangle; trophy; truck; tuesday; turn; turning; tv; uncle; walk; walking; wall; war; watch; water; waterfall; wave; way; wedding; wednesday; week; weekend; west; whale; wheel; whistle; white; video; village; wind; window; winter; witch; volcano; wolf; woman; wood; world; writing; yard; year; yellow; zebra; zoo;

*Nouns belonging to school level Year 3 (459 nouns):*

aeroplane; afternoon; air; airport; angel; animal; ant; apple; area; arm; army; art; august; baby; back; bacon; bag; ball; ballet; balloon; banana; barbecue; bark; basket; basketball; bat; battle; beach; bear; bed; bird; birthday; bit; bite; black; blood; blue; boat; bomb; bone; book; bottle; bowl; box; boy; branch; bread; breakfast; bridge; broiler; brother; brush; bus; butterfly; cabbage; cake; camera; camping; can; car; case; cash; castle; cat; cave; cereal; chair; champion; cheese; chess; chicken; child; chocolate; circus; city; class; classroom; climbing; clinic; cloud; club; cold; colour; competition; computer; concert; cookie; costume; country; court; cousin; crab; crash; crew; cricket; crocodile; cross; crowd; cup; dance; dancing; day; december; desert; desk; dessert; devil; diary; dinner; dinosaur; disco; diving; dog; doll; dolphin; door; drawing; dream; dress; drink; drive; duck; dust; ear; earth; electricity; elephant; engine; evening; face; factory; family; farm; farmer; fat; favourite; feeling; fence; ferry; finger; fire; fish; fishing; floor; flower; fly; food; foot; football; fox; friday; friend; frog; fruit; game; garden; gas; gear; ghost; girl; goal; gold; golf; grass; green; grey; guitar; gun; gymnastics; hair; hall; ham; hand; hat; hate; head; heart; heaven; helicopter; helmet; hero; hill; history; hockey; holiday; home; homework; honey; hope; horse; hospital; hotel; house; hunting; idea; ink; island; jacket; jail; jam; jeans; juice; june; jungle; kangaroo; kick; kid; king; kitchen; kite; kitten; ladder; lake; land; language; leg; lemon; leopard; lesson; lettuce; level; library; light; lightning; line; lion; lounge; love; lunch; machine; magazine; man; market; mat; match; meal; medal; medicine; metal; milk; mind; miss; model; monday; monkey; monster; morning; mother; mouse; mrs; mud; mug; mum; museum; music; name; nap; neck; news; newspaper; night; noise; nose; number; ocean; office; paint; pair; palace; pancake; paper; parent; park; partner; party; patch; peace; pencil; penguin; people; person; pet; picnic; picture; pie; piece; pig; pillow; pineapple; pink; pirate; pizza; plan; planet; playground; pole; police; pond; pony; present; prince; princess; prize; professor; pub; puppy; purple; rabbit; radio; rain; rainbow; rectangle; red; rescue; restaurant; rice; river; road; robot; rocket; roof; room; ruler; run; running; safety; salad; sand; sandwich; saturday; sauce; sausage; school; science; sea; second; secret; set; shark; shed; sheep; ship; shirt; shoe; shop; shopping; show; shower; side; singing; sink; siren; sine; skate; skateboard; skeleton; skiing; sky; sleep; snake; snow; song; sound; soup; space; speed; spelling; spider; sport; stage; stairs; star; storey; storm; story; street; sugar; summer; sun; sunday; sweet; sword; system; tail; tea; teacher; team; television; tennis; tent; theatre; thought; thunder; thursday; tiger; time; today; toe; toilet; tomato; tooth; top; torch; town; toy; traffic; trail; train; training; travel; treasure; tree; tripod; trophy; truck; tuesday; turn; turning; tv; type; uncle; walk; walking; wall; war; watch; water; waterfall; wave; way; wedding; wednesday; week; weekend; vest; whale; wheel; white; video; village; wind; window; winner; winter; witch; volcano; wolf; woman; wood; world; worm; writing; yard; year; yellow; zebra; zoo;

*Nouns belonging to school level Year 4 (459 nouns):*

accident; aeroplane; afternoon; air; airport; ambulance; angel; animal; ant; apple; area; arm; army; art; august; baby; back; bacon; badge; bag; ball; ballet; balloon; banana; bark; basket; basketball; bat; battle; beach; bear; bed; bird; birthday; bit; bite; black; blood; blue; boat; bomb; bone; book; bottle; bowl; box; boy; branch; bread; breakfast; bridge; broiler; brush; bus; butterfly; cake; camera; camping; can; car; case; cash; castle; cat; cave; cereal; chair; champion; cheese; chess; chicken; child; chocolate; circus; city; class; classroom; climbing; clinic; cloud; clown; club; coast; cold; colour; competition; computer; concert; cookie; costume; country; court; cousin; crash; crew; cricket; cross; crowd; cup; dance; dancing; day; desert; dessert; devil; diary; dinner; dinosaur; disco; dog; doll; door; dream; dress; drink; drive; duck; ear; earth; electricity; elephant; engine; evening; face; factory; fair; family; farm; fat; feeling; fence; festival; fire; fish; fishing; floor; flower; fly; food; foot; football; fox; friday; friend; frog; fruit; game; garden; gardening; gas; gear; ghost; girl; glove; goal; gold; golf; grass; green; grey; guitar; gun; gymnastics; hair; hall; ham; hand; hat; hate; head; heart; heaven; helicopter; helmet; hero; hill; hip; history; holiday; home; homework; honey; hope; horse; hospital; hotel; house; hunting; idea; island; jacket; jail; jam; jazz; jeans; juice; june; jungle; kangaroo; kick; kid; king; kitchen; kite; kitten; ladder; lake; land; language; leg; lemon; leopard; lesson; lettuce; level; library; light; lightning; line; lion; lounge; love; lunch; machine; man; market; mat; match; meal; medal; medicine; metal; milk; mind; miss; model; monday; monkey; mother; mouse; mrs; mud; mug; mum; museum; music; musical; name; nap; neck; news; newspaper; night; noise; nose; number; ocean; office; paint; pair; palace; paper; parade; parent; park; party; pasta; patch; peace; pear; pencil; penguin; people; person; pet; picnic; picture; pie; piece; pig; pillow; pineapple; pink; pirate; pizza; plan; planet; playground; poison; pole; police; pond; pony; present; prince; princess; prize; professor; project; puppy; purple; rabbit; radio; rain; rainbow; rectangle; red; rescue; restaurant; rice; river; road; robot; rocket; roof; room; ruler; run; running; sack; safety; salad; sand; sandwich; saturday; sauce; sausage; school; science; sea; second; secret; set; shark; shed; sheep; ship; shirt; shoe; shop; shopping; show; shower; side; singing; sink; siren; sine; skate; skateboard; skeleton; skiing; sky; sleep; snake; snow; song; sound; soup; space; speed; spelling; spider; sport; stage; stairs; star; storey; storm; story; street; sugar; summer; sun; sunday; sweet; sword; system; tail; tea; teacher; team; television; tennis; tent; theatre; thought; thunder; thursday; tiger; time; today; toe; toilet; tomato; tooth; top; torch; town; toy; traffic; trail; train; training; travel; treasure; tree; tripod; trophy; truck; tuesday; turn; turning; tv; type; umbrella; uncle; walk; walking; wall; war; watch; water; waterfall; wave; way; wedding; wednesday; week; weekend; west; whale; wheel; whistle; white; video; village; wind; window; winner; winter; witch; volcano; wolf; woman; wood; world; worm; writing; yard; year; yellow; zoo;

Unique nouns in unique Wikipedia hyperlinks connecting unique nouns for observed vocabulary of Year 1 (i.e. vocabulary of school level Year 1)

*Alltogether 592 nouns with the following subdivision.*

*Nouns belonging to school level Preparatory (370 nouns):*

aeroplane; afternoon; ambulance; animal; apple; arm; army; art; baby; bacon; bag; ball; ballet; balloon; barbecue; basket; basketball; bat; battle; beach; bear; bed; bird; birthday; biscuit; bit; black; blood; blue; boat; book; bottle; box; boy; bread; breakfast; brother; brush; bus; butterfly; cake; camping; can; candle; car; cash; castle; cat; cave; cereal; chair; cheese; chess; chicken; child; chocolate; circus; city; class; classroom; climbing; clown; club; cold; colour; competition; computer; concert; cookie; court; cousin; crash; cricket; crocodile; cross; cup; dance; dancing; day; december; desert; desk; devil; dinner; dinosaur; disco; diving; dog; doll; dolphin; door; drawing; dream; dress; drink; drive; duck; dvd; earth; elephant; engine; face; factory; family; farm; farmer; fat; favourite; fire; fish; fishing; floor; flower; fly; food; foot; football; fox; friday; friend; frog; fruit; game; garden; gardening; gear; ghost; giraffe; girl; goal; gold; golf; grass; green; grey; guitar; gun; gymnastics; hair; hall; hand; hat; head; headache; heart; heaven; helicopter; hero; hill; holiday; home; homework; honey; hope; horse; hospital; hotel; house; hunting; idea; island; jacket; jail; june; jungle; kangaroo; kick; kid; king; kitten; lake; land; leg; lemon; leopard; lettuce; library; light; lightning; line; lion; lounge; love; lunch; machine; man; market; mat; match; meal; medal; medicine; metal; milk; miss; monday; monkey; monster; morning; mother; mouse; movie; mrs; mud; mum; musical; name; neck; night; noise; number; ocean; paint; pair; palace; paper; parent; park; party; patch; peace; pencil; penguin; people; person; pet; picnic; piece; pig; pink; pirate; pizza; plan; planet; playground; poison; pole; police; pond; pony; present; prince; princess; prize; pub; puppy; purple; rabbit; rain; rainbow; rectangle; red; rescue; restaurant; rice; river; road; robot; rocket; roof; room; ruler; run; running; safety; salad; sand; sandwich; saturday; sauce; school; science; sea; second; set; shark; shed; sheep; ship; shop; shopping; show; shower; side; singing; sink; siren; skateboard; skeleton; ski; skiing; sky; sleep; snake; snow; song; sound; soup; space; speed; spider; sport; stairs; star; storm; story; street; sugar; summer; sun; sunday; sword; tail; tea; teacher; team; tennis; tent; thought; thunder; thursday; tiger; time; today; toe; toilet; tomato; tooth; top; torch; town; toy; tractor; traffic; trail; train; training; travel; treasure; tree; tripod; trophy; truck; tuesday; turn; turning; tv; type; uncle; walk; walking; wall; war; watch; water; waterfall; wave; way; wedding; wednesday; week; weekend; whale; wheel; whistle; white; village; window; winter; witch; wolf; woman; wood; world; writing; yard; year; yellow; zoo;

*Nouns belonging to school level Year 1 (592 nouns):*

adult; adventure; aeroplane; afternoon; ambulance; animal; answer; apple; arm; army; arrest; art; athletics; baby; bacon; bag; ball; ballet; balloon; bank; barbecue; barn; baseball; basket; basketball; bat; battle; beach; bear; bed; bedroom; bee; beef; bird; birthday; biscuit; bit; black; blanket; blood; blue; boat; body; book; bottle; box; boxing; boy; brand; bread; breakfast; brother; brown; brush; bucket; building; bull; bunch; bus; business; butter; butterfly; buttone; cabin; cake; camel; camping; can; candle; car; carpet; cash; castle; cat; coffee; century; cereal; chain; chair; change; cheese; chemist; chest; chicken; chin; chip; chocolate; circle; circus; city; class; classroom; climbing; clothes; clown; club; coffee; coin; cold; collar; collection; colour; competition; complex; computer; concert; contest; cook; cookie; cooking; coral; cost; cottage; cotton; council; count; court; cousin; cow; crash; cream; creature; cricket; crime; criminal; crocodile; cross; cucumber; cup; cupboard; dad; dance; dancing; day; december; dentist; designer; desk; devil; diamond; dinner; dinosaur; dirt; disco; dive; diving; dog; doll; dolphin; donkey; door; drawing; dream; dress; drink; drive; drop; duck; dump; dvd; earth; elephant; emergency; end; ending; engine; eye; face; fact; factory; fall; family; farm; farmer; fashion; fat; father; favourite; field; fire; fish; fishing; flag; flash; floor; flower; fly; fog; food; foot; football; forest; fox; frame; friday; friend; frog; fruit; fun; fur; game; garden; gardening; gate; gear; gentleman; ghost; gift; giraffe; girl; glass; glasses; goal; goat; god; gold; golf; grandmother; grass; green; grey; ground; group; guitar; gun; gym; gymnastics; hair; haircut; hall; hammer; hand; hat; head; headache; heart; heaven; helicopter; help; hero; hill; hole; holiday; home; homework; honey; honeymoon; honour; hope; horse; hospital; hotel; hour; house; hug; hunting; iceberg; idea; information; instructor; island; jacket; jail; january; jar; jealousy; joke; joy; june; jungle; kangaroo; kick; killer; king; kiss; kit; kitten; knife; lady; lake; land; lane; lap; laptop; lawn; leaf; learning; leg; lemon; leopard; lettuce; library; life; light; lightning; line; lion; lip; living; lounge; love; lower; lunch; lunchtime; machine; man; march; market; marriage; mask; master; mat; matter; match; matter; meal; meat; medal; medicine; memory; mess; message; metal; microphone; midnight; milk; minute; miss; monday; money; monkey; monster; morning; mosquito; mother; motor; mountain; mouse; moustache; mouth; movie; mrs; mud; mum; murder; murderer; mushroom; music; musical; name; narrative; nature; neck; need; nest; night; noise; note; november; number; ocean; opening; oven; owl; paint; painting; pair; palace; paper; parent; park; party; pastry; patch; pen; pencil; penguin; people; performance; person; pet; phone; picnic; piece; pig; pink; pirate; pizza; plan; planet; playground; pocket; point; poison; pole; police; pond; pony; port; potato; prawn; present; prince; princess; prize; problem; pub; puppy; purple; rabbit; rain; rainbow; rainforest; rat; reach; reason; recycling; red; rescue; rest; restaurant; right; river; road; robot; rocket; roof; room; rope; rose; round; run; running; safety; sail; salad; sand; sandwich; saturday; sauce; school; science; sea; season; seat; second; september; set; sewing; shadow; shape; shark; shed; sheep; sheet; ship; shooting; shop; shopping; shot; show; shower; side; silver; singer; singing; sink; siren; skateboard; skeleton; ski; skiing; skull; sky; sleep; snack; snake; snow; snowboarding; son; song; sound; soup; space; speed; spider; sport; stadium; stairs; stand; star; step; storm; story; strawberry; street; stretch; strike; sugar; suitcase; summer; sun; sunday; sweat; sword; tail; tank; taste; tea; teacher; teaching; team; tennis; tent; thought; thunder; thursday; tiger; time; toads; today; toilet; tomato; tool; tooth; toothbrush; top; towel; town; toy; track; tractor; train; training; tram; travel; treasure; tree; tripod; truck; try; tuesday; tunnel; turkey; turn; turning; tv; type; uncle; walk; walking; wall; van; war; warehouse; waste; watch; water; way; wedding; wednesday; week; weekend; vegetable; whale; wheel; whistle; white; wife; wildlife; village; window; wing; winter; witch; wolf; volleyball; woman; wood; wool; word; workshop; world; writing; yard; year; yellow; zoo;

*Nouns belonging to school level Year 2 (460 nouns):*

adult; aeroplane; afternoon; ambulance; animal; apple; arm; army; art; baby; bacon; bag; ball; balloon; barbecue; barn; basketball; bat; battle; beach; bear; bed; bedroom; bee; bird; birthday; biscuit; bit; black; blanket; blood; blue; boat; body; book; bottle; box; boy; bread; breakfast; brother; brown; brush; bucket; building; bull; bunch; bus; business; butter; butterfly; cake; camel; camping; can; candle; car; carpet; cash; castle; cat; cave; chain; chair; chess; chest; chicken; chip; chocolate; circle; city; class; classroom; climbing; clothes; clown; club; coffee; cold; colour; competition; computer; contest; cook; cooking; coral; cost; cottage; count; cousin; cow; crash; cream; creature; cricket; crime; crocodile; cross; cup; cupboard; dance; dancing; day; december; desert; desk; devil; diamond; dinner; dinosaur; disco; diving; dog; doll; dolphin; donkey; door; drawing; dream; dress; drink; drive; drop; duck; dvd; earth; elephant; engine; eye; face; factory; fall; family; farm; farmer; fat; favourite; field; fire; fish; fishing; flash; floor; fly; food; foot; football; forest; fox; frame; friday; friend; frog; fruit; fun; fur; game; garden; gardening; gate; gear; gentleman; ghost; gift; giraffe; girl; glass; glasses; goal; god; gold; golf; grass; green; grey; ground; group; guitar; gun; gymnastics; hair; haircut; hand; hat; head; headache; heart; hero; hill; hole; holiday; home; homework; honey; hope; horse; hospital; hotel; hour; house; hug; hunting; iceberg; idea; information; instructor; island; jacket; jail; january; jar; jealousy; joke; joy; june; jungle; kangaroo; kick; killer; king; kiss; kit; kitten; knife; lady; lake; land; lane; leaf; learning; leg; lemon; leopard; lettuce; library; life; light; lightning; line; lion; lip; living; lounge; love; lower; lunch; lunchtime; machine; man; march; market; marriage; mask; master; mat; matter; match; matter; meal; meat; medal; medicine; memory; mess; message; metal; microphone; midnight; milk; minute; miss; monday; money; monkey; monster; morning; mosquito; mother; motor; mountain; mouse; moustache; mouth; movie; mrs; mud; mum; murder; murderer; mushroom; music; musical; name; narrative; nature; neck; need; nest; night; noise; note; november; number; ocean; opening; oven; owl; paint; painting; pair; palace; paper; parent; park; party; pastry; patch; pen; pencil; penguin; people; performance; person; pet; phone; picnic; piece; pig; pink; pirate; pizza; plan; planet; playground; pocket; point; poison; pole; police; pond; pony; port; potato; prawn; present; prince; princess; prize; problem; pub; puppy; purple; rabbit; rain; rainbow; rainforest; rat; reach; reason; recycling; red; rescue; rest; restaurant; right; river; road; robot; rocket; roof; room; rope; rose; round; run; running; safety; sail; salad; sand; sandwich; saturday; sauce; school; science; sea; season; seat; second; september; set; sewing; shadow; shape; shark; shed; sheep; sheet; ship; shooting; shop; shopping; shot; show; shower; side; silver; singer; singing; sink; siren; skateboard; skeleton; ski; skiing; skull; sky; sleep; snack; snake; snow; snowboarding; son; song; sound; soup; space; speed; spider; sport; stadium; stairs; stand; star; step; storm; story; strawberry; street; stretch; strike; sugar; suitcase; summer; sun; sunday; sweat; sword; tail; tank; taste; tea; teacher; teaching; team; tennis; tent; thought; thunder; thursday; tiger; time; toads; today; toilet; tomato; tool; tooth; toothbrush; top; towel; town; toy; track; tractor; train; training; tram; travel; treasure; tree; tripod; truck; try; tuesday; tunnel; turkey; turn; turning; tv; type; uncle; walk; walking; wall; van; war; warehouse; waste; watch; water; way; wedding; wednesday; week; weekend; vegetable; whale; wheel; whistle; white; wife; wildlife; village; window; wing; winter; witch; wolf; volleyball; woman; wood; wool; word; workshop; world; writing; yard; year; yellow; zoo;

lion; living; lounge; love; lunch; lunchtime; machine; man; march; market; mask; master; match; matter; meal; meat; medal; medicine; mess; message; metal; microphone; midnight; milk; miss; monday; money; monkey; monster; morning; mother; motor; mouse; mouth; movie; Mrs; mud; mum; mushroom; music; musical; name; neck; need; night; noise; november; number; ocean; opening; oven; owl; paint; painting; pair; palace; paper; parent; park; party; patch; pen; pencil; penguin; people; person; pet; piece; pig; pink; pirate; pizza; plan; planet; playground; point; pole; police; pond; pony; port; potato; prawn; present; prince; princess; prize; problem; puppy; purple; rabbit; rain; rainbow; rat; red; rescue; rest; restaurant; river; road; robot; rocket; roof; room; rope; round; run; running; salad; sand; sandwich; saturday; school; science; sea; seat; second; september; set; shape; shark; shed; sheep; sheet; ship; shooting; shop; shopping; shot; shower; side; silver; singing; siren; skeleton; sky; sleep; snack; snake; snow; son; song; sound; soup; space; speed; spider; stadium; stairs; stand; star; step; storm; story; strawberry; street; summer; sun; sunday; tail; tank; tea; teacher; teaching; team; tent; thought; thursday; tiger; time; toast; today; toilet; tooth; toothbrush; top; towel; town; toy; track; tractor; train; training; travel; treasure; tree; trophy; truck; try; tuesday; tunnel; turn; turning; tv; uncle; walk; walking; wall; war; waste; watch; water; way; wedding; wednesday; week; weekend; whale; wheel; whistle; white; wife; village; window; wing; winter; witch; wolf; woman; wood; wool; word; world; writing; yard; year; yellow; zoo;

*Nouns belonging to school level Year 3 (520 nouns):*

adult; adventure; aeroplane; afternoon; animal; answer; apple; arm; army; arrest; art; baby; bacon; bag; ball; ballet; balloon; bank; barbecue; baseball; basket; basketball; bat; battle; beach; bear; bed; bedroom; bee; beef; bird; birthday; bit; black; blanket; blood; blue; boat; body; book; bottle; box; boxing; boy; brand; bread; breakfast; brother; brown; brush; bucket; building; bull; bunch; bus; business; butter; butterfly; button; cabin; cake; camel; camping; can; car; carpet; cash; castle; cat; cave; cereal; chain; chair; change; cheese; chess; chest; chicken; child; chin; chip; chocolate; circle; circus; city; class; classroom; climbing; clothes; club; coffee; coin; cold; collar; collection; colour; competition; complex; computer; concert; cook; cookie; cooking; cost; cottage; cotton; count; court; cousin; cow; crash; cream; creature; cricket; crime; crocodile; cross; cup; cupboard; dad; dance; dancer; dancing; day; december; desert; desk; devil; diamond; dinner; dinosaur; dirt; disco; dive; diving; dog; doll; dolphin; donkey; door; drawing; dream; dress; drink; drive; drop; duck; earth; elephant; engine; eye; face; fact; factory; fall; family; farm; farmer; fashion; fat; father; favourite; field; fire; fish; fishing; flash; floor; flower; fly; fog; food; foot; football; forest; fox; frame; friday; friend; frog; fruit; fun; fur; game; garden; gate; gear; ghost; gift; girl; glass; glasses; goal; god; gold; golf; grandmother; grass; green; grey; ground; group; guitar; gun; gym; gymnastics; hair; hall; hammer; hand; hat; head; heart; heaven; helicopter; hero; hill; hole; holiday; home; homework; honey; hope; horse; hospital; hotel; hour; house; hug; hunting; idea; information; island; jacket; jail; january; jar; joke; joy; jungle; kangaroo; kick; kid; king; kitten; knife; lady; lake; land; lane; lap; laptop; lawn; learning; leg; lemon; leopard; lettuce; library; life; light; lightning; line; lion; lip; living; lounge; love; lunch; lunchtime; machine; man; march; market; mask; master; mat; match; matter; meal; meat; medal; medicine; mess; message; metal; microphone; midnight; milk; minute; miss; monday; money; monkey; monster; morning; mountain; mouse; mouth; Mrs; mud; mum; murder; music; name; neck; need; nest; night; noise; nose; number; ocean; opening; oven; owl; paint; painting; pair; palace; paper; parent; park; party; patch; pen; pencil; penguin; people; person; pet; picnic; piece; pig; pink; pirate; pizza; plan; planet; playground; pocket; point; pole; police; pond; pony; port; potato; prawn; present; prince; princess; prize; problem; puppy; purple; rabbit; rain; rainbow; rat; reason; red; rescue; rest; restaurant; right; river; road; robot; rocket; roof; room; rope; rose; round; run; running; safety; salad; sand; sandwich; saturday; sauc; school; science; sea; season; seat; second; set; shadow; shape; shark; shed; sheep; sheet; ship; shooting; shop; shopping; shot; show; shower; side; silver; singer; singing; sink; siren; skateboard; skeleton; skiing; skull; sky; sleep; snack; snake; snow; son; song; sound; soup; space; speed; spider; sport; stadium; stairs; stand; star; step; storm; story; strawberry; street; stretch; strike; sugar; summer; sun; sunday; sweat; sword; tail; tank; taste; tea; teacher; teaching; team; tennis; tent; thought; thunder; thursday; tiger; time; toast; today; toilet; tomato; tooth; top; towel; town; toy; track; train; training; travel; treasure; tree; trophy; truck; try; tuesday; tunnel; turn; turning; tv; type; uncle; walk; walking; wall; van; war; warehouse; watch; water; way; wedding; wednesday; week; weekend; vegetable; whale; wheel; white; wife; village; window; wing; winter; witch; wolf; woman; wood; word; world; writing; yard; year; yellow; zoo;

*Nouns belonging to school level Year 4 (512 nouns):*

adult; adventure; aeroplane; afternoon; ambulance; animal; answer; apple; arm; army; art; baby; bacon; bag; ball; ballet; balloon; barn; baseball; basket; basketball; bat; battle; beach; bear; bed; bedroom; beef; bird; birthday; bit; black; blanket; blood; blue; boat; body; book; bottle; box; boxing; boy; bread; breakfast; brother; brown; brush; bucket; building; bull; bunch; bus; butter; butterfly; button; cabin; cake; camel; camping; can; car; carpet; cash; castle; cat; cave; century; cereal; chain; chair; cheese; chest; chicken; child; chin; chip; chocolate; circle; circus; city; class; classroom; climbing; clothes; clown; club; coffee; cold; collar; colour; competition; computer; concert; contest; cook; cookie; cooking; cost; cottage; court; cousin; cow; crash; cream; creature; cricket; crime; cross; cup; cupboard; dad; dance; dancer; dancing; day; december; designer; devil; diamond; dinner; dinosaur; dirt; disco; dog; doll; door; dream; dress; drink; drive; drop; duck; earth; elephant; emergency; engine; eye; face; fact; factory; fall; family; farm; farmer; fat; father; field; fire; fish; fishing; flash; floor; flower; fly; fog; food; foot; football; forest; fox; frame; friday; friend; frog; fruit; fun; fur; game; garden; gardening; gate; gear; ghost; girl; glass; glasses; goal; gold; golf; golf; grandmother; grass; green; grey; ground; group; guitar; gun; gym; gymnastics; hair; haircut; hand; hat; head; heart; heaven; helicopter; help; hero; hill; hole; holiday; home; homework; honey; hope; horse; hospital; hotel; hour; house; hug; hunting; idea; information; island; jacket; jail; jar; joy; june; jungle; kangaroo; kick; kid; killer; king; kitten; knife; lady; lake; land; lane; lap; laptop; lawn; leaf; learning; leg; lemon; leopard; lettuce; library; life; light; lightning; line; lion; living; lounge; love; lunch; lunchtime; machine; man; march; mask; master; mat; match; matter; meal; medal; medicine; mess; message; metal; midnight; milk; minute; miss; monday; money; monkey; monster; morning; mosquito; mother; motor; mountain; mouse; mouth; Mrs; mud; mum; murder; murderer; music; musical; name; nature; neck; need; nest; night; noise; nose; number; ocean; opening; oven; paint; paper; parent; park; party; patch; pen; pencil; penguin; people; performance; person; pet; picnic; piece; pig; pink; pirate; pizza; plan; planet; playground; pocket; point; poison; pole; police; pony; present; prince; princess; prize; problem; puppy; purple; rabbit; rain; rainbow; rainforest; rat; reason; red; rescue; rest; restaurant; right; river; road; robot; rocket; roof; room; rope; rose; round; run; running; safety; sail; salad; sand; sandwich; saturday; sauc; school; science; sea; season; seat; second; september; set; shadow; shape; shark; shed; sheep; sheet; ship; shooting; shop; shopping; shot; show; shower; side; silver; singer; singing; sink; siren; skateboard; skeleton; ski; skiing; skull; sky; sleep; snack; snake; snow; son; song; sound; soup; space; speed; spider; sport; stadium; stairs; stand; star; step; storm; story; strawberry; street; stretch; strike; sugar; suitcase; summer; sun; sunday; sweat; sword; tail; tank; taste; tea; teacher; teaching; team; tennis; tent; thought; thunder; thursday; tiger; time; toast; today; toilet; tomato; tooth; top; towel; town; toy; track; tractor; train; training; travel; treasure; tree; trophy; truck; try; tuesday; tunnel; turn; turning; tv; type; uncle; walk; walking; wall; van; war; warehouse; waste; watch; water; way; wedding; wednesday; week; weekend; vegetable; whale; wheel; whistle; white; wife; village; window; wing; winter; witch; wolf; woman; wood; word; world; writing; yard; year; yellow; zoo;

Unique nouns in unique Wikipedia hyperlinks connecting unique nouns for observed vocabulary of Year 2 (i.e. vocabulary of school level Year 2)

*Alltogether 749 nouns with the following subdivision.*

*Nouns belonging to school level Preparatory (415 nouns):*

aeroplane; afternoon; air; airport; ambulance; animal; ant; apple; arm; army; art; august; baby; back; bacon; badge; bag; ball; balloon; banana; barbecue; bark; basketball; bat; battle; beach; bear; bed; bird; birthday; biscuit; bit; bite; black; blood; blue; boat; bomb; bone; book; bottle; bowl; box; boy; bread; breakfast; bridge; brother; brush; bus; butterfly; cabbage; cake; camera; camping; can; candle; car; case; cash; castle; cat; cave; chair; chess; chicken; chocolate; city; class; classroom; climbing; cloud; clown; club; cold; colour; competition; computer; cookie; country; court; cousin; crab; crash; crew; cricket; crocodile; cross; cup; dance; dancing; day; december; desert; desk; dessert; devil; diary; dinner; dinosaur; disco; diving; dog; doll; dolphin; hand; drawing; dream; dress; drink; drive; duck; dvd; eagle; earth; elephant; engine; evening; face; factory; fair; family; farm; farmer; fat; favourite; feeling; fence; ferry; fire; fish; fishing; flame; floor; fly; food; foot; football; fox; friday; friend; frog; fruit; fun; fur; game; garden; gardening; gear; ghost; giraffe; girl; goal; gold; golf; grass; green; grey; guitar; gun; gymnastics; hair; ham; hand; hat; hate; head; headache; heart; hero; hill; hole; history; hockey; home; homework; honey; hope; horse; hospital; hotel; hour; house; hunting; idea; island; jacket; jail; jam; juice; jungle; kangaroo; kick; king; kitchen; kite; kitten; ladder; lake; land; leg; lemon; leopard; lesson; level; library; light; lightning; line; lion; lounge; love; lunch; machine; man; market; match; meal; meat; medal; medicine; metal; milk; mind; miss; monday; monkey; monster; morning; mother; mouse; movie; Mrs; mud; mug; mum; museum; music; musical; name; nap; neck; newspaper; night; noise; nose; number; ocean; paint; pair; palace; pancake; paper; parade; parent; park; partner; party; pasta; patch; peace; pencil; penguin; people; person; pet; pie; piece; pig; pillow; pink; pirate; pizza; plan; planet; plant; playground; pole; police; pond; pony; present; prince; princess; prize; professor; puppy; purple; rabbit; radio; rain; rainbow; rat; rescue; restaurant; rice; river; road; robot; rocket; roof; room; run; running; sack; salad; sand; sandwich; saturday; sausage; school; science; sea; second; secret; set; shark; shed; sheep; ship; shoe; shop; shopping; shower; side; singing; siren; skate; skeleton; sky; sleep; snake; snow; song; sound; soup; space; speed; spelling; spider; stage; stairs; star; storey; store; story; street; summer; sun; sunday; tail; tea; teacher; team; tent; thought; thursday; tiger; time; today; toe; toilet; tooth; top; torch; town; toy; tractor; train; training; treasure; tree; triangle; trophy; truck; tuesday; turn; turning; tv; uncle; walk; walking; wall; war; watch; water; waterfall; wave; way; wedding; wednesday; week; weekend; west; whale; wheel; whistle; white; video; village; wind; window; winter; witch; volcano; wolf; woman; wood; world; writing; yard; year; yellow; zebra; zoo;

*Nouns belonging to school level Year 1 (460 nouns):*

adult; aeroplane; afternoon; ambulance; animal; apple; arm; army; art; baby; bacon; bag; ball; balloon; barbecue; barn; basketball; bat; battle; beach; bear; bed; bedroom; bee; bird; birthday; biscuit; bit; black; blanket; blood; blue; boat; body; book; bottle; box; boy; bread; breakfast; brother; brown; brush; bucket; building; bull; bunch; bus; business; butter; butterfly; cake; camel; camping; can; candle; car; carpet; cash; castle; cat; cave; chain; chair; chess; chest; chicken; chip; chocolate; circle; city; class; classroom; climbing; clothes; clown; club; coffee; cold; colour; competition; computer; contest; cook; cookie; cooking; coral; cost; cottage; count; court; cousin; cow; crash; cream; creature; cricket; crime; crocodile; cross; cup; cupboard; dance; dancing; day; december; desert; desk; devil; diamond; dinner; dinosaur; disco; diving; dog; doll; dolphin; donkey; door; drawing; dream; dress; drink; drive; drop; duck; dvd; earth; elephant; engine; eye; face; factory; fall; family; farm; farmer; fat; favourite; field; fire; fish; fishing; flash; floor; fly; food; foot; football; forest; fox; frame; friday; friend; frog; fruit; fun; fur; game; garden; gardening; gate; gear; gentleman; ghost; gift; giraffe; girl; glass; glasses; goal; god; gold; golf; grass; green; grey; ground; group; guitar; gun; gymnastics; hair; haircut; hand; hat; head; headache; heart; hero; hill; hole; holiday; home; homework; honey; hope; horse; hospital; hotel; hour; house; hug; hunting; idea; instructor; island; jacket; jail; joke; joy; jungle; kangaroo; kick; king; kitten; knife; lady; lake; land; lawn; leg; leg; lemon; leopard; library; life; light; lightning; line; lion; living; lounge; love; lunch; lunchtime; machine; man; march; market; mask; master; match; matter; meal; meat; medal; medicine; mess; message; metal; microphone; midnight; milk; miss; monday; money; monkey; monster; morning; mother; motor; mouse; mouth; movie; Mrs; mud; mum; mushroom; music; musical; name; neck; need; night; noise; november; number; ocean; opening; oven; owl; paint; painting; pair; palace; paper; parent; park; party; patch; pen; pencil; penguin; people; person; pet; piece; pig; pink; pirate; pizza; plan; planet; playground; point; pole; police; pond; pony; port; potato; prawn; present; prince; princess; prize; problem; puppy; purple; rabbit; rain; rainbow; rat; red; rescue; rest; restaurant; river; road; robot; rocket; roof; room; rope; round; run; running; salad; sand; sandwich; saturday; school; science; sea; seat; second; september; set; shape; shark; shed; sheep; sheet; ship; shooting; shop; shopping; shot; shower; side; silver; singing; siren; skeleton; sky; sleep; snack; snake; snow; son; song; sound; soup; space; speed; spelling; spider; stage; stairs; star; storey; store; story; street; summer; sun; sunday; tail; tea; teacher; team; tent; thought; thursday; tiger; time; today; toe; toilet; tooth; top; torch; town; toy; tractor; train; training; treasure; tree; triangle; trophy; truck; tuesday; turn; turning; tv; uncle; walk; walking; wall; war; watch; water; waterfall; wave; way; wedding; wednesday; week; weekend; whale; wheel; whistle; white; wife; village; window; wing; winter; witch; wolf; woman; wood; wool; word; world; writing; yard; year; yellow; zoo;

*Nouns belonging to school level Year 2 (749 nouns):*

ad; adult; aeroplane; afternoon; age; air; airport; alarm; ambulance; animal; ant; apple; argument; arm; army; art; august; baby; back; bacon; badge; bag; ball; balloon; banana; barbecue; bark; barn; basketball; bat; bathroom; battle; bay; beach; bear; beard; bed; bedroom; bee; beer; bench; bird; birthday; biscuit; bit; bite; black; blanket; blood; blue; boat; body; bomb; bone; book; border; bottle; bowl; box; boy; boyfriend; bracelet; brain; bread; breakfast; breath; breed; bridge; brother; brown; brush; bucket; bug; building;

bull; bunch; bus; business; butter; butterfly; cabbage; cake; calculator; calf; camel; camera; camp; camping; can; cancer; candle; car; carnival; carpet; carrot; cartoon; case; cash; cast; castle; cat; cave; cemetery; chain; chair; challenge; chat; chef; chess; chest; chicken; chimney; chip; chocolate; choice; circle; city; class; classroom; cleaner; climbing; clock; clothes; cloud; clown; club; code; coffee; cold; college; colour; community; competition; computer; container; contest; continent; cook; cookie; cooking; cooperation; coral; cotta; cottage; cough; count; counter; country; court; cousin; cow; crab; craft; crash; cream; creature; crew; cricket; crime; cross; crystal; dance; dancing; daughter; day; death; december; deck; deer; desert; desk; dessert; devil; diamond; diary; dice; diesel; dimension; dinner; dinosaur; direction; directions; disco; disease; distance; diver; diving; dog; doll; dolphin; donkey; door; drawer; drawing; dream; dress; drink; drive; drop; drought; duck; dvd; eagle; earth; elephant; enemy; engine; episode; evening; event; evil; exercise; eye; face; factory; fair; fall; family; fantasy; farm; farmer; fat; favourite; feeling; fence; ferry; field; fire; fireplace; fish; fishing; flame; flash; flight; flood; floor; food; fluid; fly; food; foot; football; force; forest; form; fox; frame; freezer; friend; friend; frog; frost; fruit; fuel; fun; funeral; fur; furniture; future; game; gang; garden; gardening; gate; gear; gentleman; ghost; gift; giraffe; girl; girlfriend; glass; glasses; glue; goal; god; gold; golf; grass; grave; green; grey; ground; group; guard; guitar; gun; gymnastics; hair; haircut; ham; hand; hat; hate; head; headache; heart; heat; hero; hill; hip; history; hobby; hockey; hole; holiday; home; homework; honey; hope; horse; hospital; hotel; hour; house; hug; human; hunting; husband; ice; idea; imagination; inch; insect; instructor; interaction; island; jacket; jail; jam; jewellery; joke; joy; juice; jug; judo; justice; jungle; junk; kangaroo; kettle; kick; killing; kilometre; king; kiss; kitchen; kite; kitten; knife; lab; laboratory; ladder; lady; lake; lamb; land; laser; lawn; lead; leader; leaf; leak; leg; legend; lemon; lemonade; length; leopard; lesson; level; library; lie; life; light; lightning; line; lion; living; loaf; log; lounge; love; lunch; luncheon; machine; machinery; magic; mail; man; mango; march; mark; market; mask; master; match; matter; may; meal; meat; mechanic; medal; medicine; member; menu; mercy; mess; message; metal; metre; microphone; midnight; milk; mind; miracle; mirror; miss; missile; monday; money; monkey; month; morning; mother; motor; mouse; mouth; movie; Mrs; mud; mug; mum; museum; mushroom; music; musical; mystery; name; nap; neck; necklace; need; news; newspaper; night; noise; nose; november; number; obstacle; ocean; october; opening; opera; oven; owl; pain; paint; painting; pair; palace; pan; pancake; paper; parade; paragraph; parcel; parent; park; parrot; partner; party; patch; paw; peace; pen; pencil; penguin; people; person; pet; petrol; piano; pie; piece; pig; pillow; pink; pirate; pizza; plan; planet; planning; plant; playground; plot; pole; police; pond; pony; pork; port; potato; prawn; present; president; prince; princess; prize; problem; professor; promise; puppy; purple; push; rabbit; radio; rain; rainbow; rat; razor; red; rescue; research; rest; restaurant; rice; river; road; robot; rock; rocket; roof; room; rope; round; roundabout; rubber; run; running; sack; salad; salt; sand; sandwich; Saturday; sausage; scarf; school; science; scratch; sea; seat; second; secret; seed; september; set; shape; shark; shed; sheep; sheet; ship; shoe; shooting; shop; shopping; shore; shorts; shot; shoulder; shower; side; sign; silver; singing; sir; siren; skate; skeleton; skin; skirt; sky; sleep; smoke; snack; snake; snow; soldier; solution; son; song; sound; soup; south; space; speed; spelling; spider; spinach; spirit; spoon; spy; square; stable; stadium; stage; staircase; stairs; stand; star; step; stomach; storey; storm; story; straw; strawberry; street; string; student; summer; sun; sunday; survival; sweets; symbol; tail; talk; tank; tea; teacher; teaching; team; teaspoon; teenager; temper; tent; thermometer; thought; thunderstorm; Thursday; tiger; timber; time; tin; toast; today; toe; toilet; tongue; tooth; toothbrush; top; torch; touch; towel; tower; town; toy; track; tractor; train; training; treasure; tree; triangle; trophy; trouble; truck; truth; try; Tuesday; tunnel; turkey; turn; turning; tv; uncle; uniform; unit; university; walk; walking; wall; valley; war; wardrobe; warrior; wasp; waste; watch; water; waterfall; wave; way; website; wedding; Wednesday; weed; week; weekend; veil; west; whale; wheel; whistle; white; video; wife; village; wind; window; wing; winter; witch; volcano; wolf; woman; wood; wool; word; world; worry; wrist; writing; yacht; yard; year; yellow; zebra; zone; zoo;

*Nouns belonging to school level Year 3 (642 nouns):*

ad; adult; aeroplane; afternoon; age; air; airport; alarm; ambulance; animal; ant; apple; arm; army; art; august; baby; back; bacon; bag; ball; balloon; banana; barbecue; bark; basketball; bat; bathroom; battle; bay; beach; bear; bed; bedroom; bee; beer; bench; bird; birthday; bit; bite; black; blanket; blood; blue; boat; body; bomb; bone; book; bottle; bowl; box; boy; boyfriend; brain; bread; breakfast; breath; breed; bridge; brother; brown; brush; bucket; building; bull; bunch; bus; business; butter; butterfly; cabbage; cake; calculator; camel; camera; can; cancer; car; carpet; cartoon; case; cash; castle; cat; cave; cereal; chair; challenge; chat; chef; chess; chest; chicken; chimney; chip; chocolate; choice; circle; city; class; classroom; climbing; clock; clothes; cloud; club; code; coffee; cold; college; colour; competition; computer; cook; cookie; cooking; cost; cotta; cottage; cough; count; counter; country; court; cousin; cow; crab; craft; crash; cream; creature; crew; cricket; crime; cross; crystal; cup; cupboard; customer; cutlery; dance; dancing; daughter; day; death; december; deck; deer; desert; desk; dessert; devil; diamond; diary; dice; dinner; dinosaur; disco; disease; distance; diver; diving; dog; doll; dolphin; favourite; feeling; fence; ferry; field; fire; fish; fishing; flash; flight; floor; fly; food; foot; football; force; forest; form; fox; frame; freezer; Friday; friend; frog; fruit; fun; funeral; fur; furniture; future; game; gang; garden; gate; gear; ghost; gift; girl; glass; glasses; glue; goal; god; gold; golf; grass; green; grey; ground; group; guard; guitar; gun; gymnastics; hair; ham; hand; hat; hate; head; heart; heat; hero; hill; history; hobby; hockey; hole; holiday; home; homework; honey; hope; horse; hospital; hotel; hour; house; hug; human; hunting; husband; ice; idea; imagination; inch; island; jacket; jail; jam; jewellery; joke; joy; juice; jungle; junk; kangaroo; kettle; kick; killing; king; kiss; kitchen; kite; kitten; knife; lab; laboratory; ladder; lady; lake; lamb; land; laser; lawn; lead; leader; leg; legend; lemon; lemonade; leopard; lesson; level; library; lie; life; light; lightning; line; lion; living; loaf; log; lounge; love; lunch; luncheon; machine; magic; mail; man; mango; march; mark; market; mask; master; match; matter; may; meal; meat; medal; medicine; member; menu; mercy; mess; message; metal; microphone; midnight; milk; mind; mirror; miss; missile; monday; money; monkey; monster; month; morning; mother; motor; mouse; mouth; Mrs; mud; mug; mum; museum; music; mystery; name; nap; neck; necklace; need; news; newspaper; night; noise; nose; number; obstacle; ocean; october; opening; oven; pain; paint; painting; pair; palace; pan; pancake; paper; parcel; parent; park; partner; party; patch; peace; pencil; penguin; people; person; pet; petrol; piano; pie; piece; pig; pillow; pink; pirate; pizza; plan; planet; planning; plant; playground; point; pole; police; pond; pony; pork; port; potato; prawn; present; president; prince; princess; prize; problem; professor; promise; puppy; purple; push; rabbit; radio; rain; rainbow; rat; razor; red; rescue; research; rest; restaurant; rice; river; road; robot; rock; rocket; roof; room; rope; round; rubber; run; running; salad; salt; sand; sandwich; Saturday; sausage; scarf; school; science; scratch; sea; seat; second; secret; seed; september; set; shape; shark; shed; sheep; sheet; ship; shoe; shooting; shop; shopping; shore; shorts; shot; shoulder; shower; side; sign; silver; singing; sir; siren; skate; skeleton; skin; skirt; sky; sleep; smoke; snack; snake; snow; soldier; son; song; sound; soup; south; space; speed; spelling; spider; spirit; spoon; square; stadium; stage; stairs; stand; star; step; stomach; storey; storm; story; straw; strawberry; street; string; student; summer; sun; sunday; tail; talk; tank; tea; teacher; teaching; team; teaspoon; teenager; tent; thought; thunderstorm; Thursday; tiger; time; tin; toast; today; toe; toilet; tongue; tooth; top; torch; touch; towel; tower; town; toy; track; tractor; train; training; treasure; tree; trophy; trouble; truck; truth; try; Tuesday; tunnel; turn; turning; tv; uncle; uniform; unit; walk; walking; wall; valley; war; wardrobe; warrior; watch; water; waterfall; wave; way; website; wedding; Wednesday; weed; week; weekend; veil; west; whale; wheel; whistle; white; video; wife; village; wind; window; wing; winter; witch; volcano; wolf; woman; wood; wool; word; world; worry; wrist; writing; yard; year; yellow; zebra; zoo;

*Nouns belonging to school level Year 4 (612 nouns):*

ad; adult; aeroplane; afternoon; age; air; airport; alarm; ambulance; animal; ant; apple; arm; army; art; august; baby; back; bacon; badge; bag; ball; balloon; banana; bark; barn; basketball; bat; bathroom; battle; bay; beach; bear; bed; bedroom; beer; bench; bird; birthday; bit; bite; black; blanket; blood; blue; boat; body; bomb; bone; book; bottle; bowl; box; boy; boyfriend; bracelet; brain; bread; breakfast; breath; breed; bridge; brother; brown; brush; bucket; building; bull; bunch; bus; butter; butterfly; cake; camera; camp; camping; can; cancer; car; carpet; cartoon; case; cash; castle; cat; cave; cereal; chair; challenge; chat; chef; chess; chest; chicken; chimney; chip; chocolate; choice; circle; city; class; classroom; climbing; clock; clothes; cloud; clown; club; code; coffee; cold; colour; competition; computer; container; contest; cook; cookie; cooking; cost; cotta; cottage; cough; country; court; cousin; cow; craft; crash; cream; creature; crew; cricket; crime; cross; crystal; cup; cupboard; dance; dancing; daughter; day; death; deck; deer; desert; dessert; devil; diamond; diary; dinner; dinosaur; disco; distance; dog; doll; door; dream; dress; drink; drive; drop; duck; earth; elephant; enemy; engine; evening; evil; exercise; eye; face; factory; fair; fall; family; farm; fat; feeling; fence; ferry; field; fire; fish; fishing; flash; flight; floor; fly; food; foot; football; force; forest; form; fox; frame; freezer; Friday; friend; frog; fruit; fun; funeral; fur; furniture; future; game; gang; garden; gardening; gate; gear; ghost; gift; girl; girlfriend; glass; glasses; glue; goal; gold; golf; grass; green; grey; ground; group; guard; guitar; gun; gymnastics; hair; haircut; ham; hand; hat; hate; head; heart; heat; hero; hill; hip; history; hole; holiday; home; homework; honey; hope; horse; hospital; hotel; hour; house; hug; human; hunting; husband; ice; idea; imagination; inch; island; jacket; jail; jam; jewellery; joke; joy; judge; juice; jungle; junk; kangaroo; kettle; kick; killing; king; kiss; kitchen; kite; kitten; knife; ladder; lady; lake; lamb; land; laser; lawn; lead; leader; leaf; leak; leg; legend; lemon; lemonade; leopard; lesson; level; library; lie; life; light; lightning; line; lion; living; loaf; log; lounge; love; lunch; luncheon; machine; mail; man; mango; march; mark; market; mask; master; match; matter; may; meal; meat; mechanic; medal; medicine; mess; message; metal; metre; midnight; milk; mind; mirror; miss; missile; monday; money; monkey; monster; month; morning; mother; motor; mouse; mouth; Mrs; mud; mug; mum; museum; music; musical; mystery; name; nap; neck; necklace; need; news; newspaper; night; noise; nose; number; obstacle; ocean; october; opening; oven; pain; paint; pair; palace; paper; parade; parcel; parent; park; parrot; party; patch; pasta; peace; pen; pencil; penguin; people; person; pet; petrol; piano; pie; piece; pig; pillow; pink; pirate; pizza; plan; planet; planning; plant; playground; point; pole; police; pond; present; president; prince; princess; prize; problem; professor; puppy; purple; push; rabbit; radio; rain; rainbow; rat; red; rescue; rest; restaurant; rice; river; road; robot; rock; rocket; roof; room; ruler; run; running; sack; salad; sand; sandwich; Saturday; sausage; scarf; school; science; sea; seat; second; secret; seed; september; set; shape; shark; shed; sheep; sheet; ship; shoe; shooting; shop; shopping; shore; shorts; shot; shoulder; shower; side; sign; silver; singing; sir; siren; skate; skeleton; skin; sky; sleep; smoke; snack; snake; snow; soldier; son; song; sound; soup; south; space; speed; spelling; spider; sport; square; stable; stadium; stage; staircase; stairs; stand; star; step; stomach; storey; storm; story; strawberry; street; string; student; summer; sun; sunday; sweets; tail; talk; tank; tea; teacher; teaching; team; teenager; temper; tent; thought; Thursday; tiger; timber; time; tin; toast; today; toe; toilet; tongue; tooth; top; torch; touch; towel; tower; town; toy; track; tractor; train; training; treasure; tree; triangle; trophy; trouble; truck; try; Tuesday; tunnel; turn; turning; tv; uncle; uniform; unit; walk; walking; wall; valley; war; wardrobe; warrior; waste; watch; water; waterfall; wave; way; wedding; Wednesday; weed; week; weekend; veil; west; whale; wheel; whistle; white; video; wife; village; wind; window; wing; winter; witch; volcano; wolf; woman; wood; wool; word; world; worry; wrist; writing; yard; year; yellow; zone; zoo;

Unique nouns in unique Wikipedia hyperlinks connecting unique nouns for observed vocabulary of Year 3 (i.e. vocabulary of school level Year 3)

*Alltogether 1051 nouns with the following subdivision.*

*Nouns belonging to school level Preparatory (459 nouns):*

aeroplane; afternoon; air; airport; angel; animal; ant; apple; area; arm; army; art; august; baby; back; bacon; bag; ball; ballet; balloon; banana; barbecue; bark; basket; basketball; bat; battle; beach; bear; bed; bird; birthday; bit; bite; black; blood; blue; boat; bomb; bone; book; bottle; bowl; box; boy; branch; bread; breakfast; bride; bridge; brother; brush; bus; butterfly; cabbage; cake; camera; camping; can; car; case; cash; castle; cat; cave; cereal; chair; champion; cheese; chess; chicken; child; chocolate; circus; city; class; classroom; climbing; clinic; cloud; club; cold; colour; competition; computer; concert; cookie; costume; country; court; cousin; cow; crab; crash; crew; cricket; crocodile; cross; crowd; cup; dance; dancing; day; december; desert; desk; dessert; devil; diary; dinner; dinosaur; disco; diving; dog; doll; dolphin; door; drawing; dream; dress; drink; drive; duck; dust; ear; earth; electricity; elephant; engine; evening; face; factory; family; farm; farmer; fat; favourite; feeling; fence; ferry; finger; fire; fish; fishing; floor; flower; fly; food; foot; football; fox; Friday; friend; frog; fruit; game; garden; gas; gear; ghost; girl; goal; gold; golf; grass; green; grey; guitar; gun; gymnastics; hair; hall; ham; hand; hat; hate; head; heart; heaven; helicopter; helmet; hero; hill; history; hobby; holiday; home; homework; honey; hope; horse; hospital; hotel; house; hunting; idea; ink; island; jacket; jail; jam; jeans; juice; June; jungle; kangaroo; kick; kid; king; kitchen; kite; kicken; ladder; lake; land; language; leg; lemon; leopard; lesson; lettuce; level; library; light; lightning; line; lion; lounge; love; lunch; machine; magazine; man; market; mat; match; meat; medal; medicine; metal; milk; mind; miss; model; monday; monkey; monster; morning; mother; mouse; Mrs; mud; mug; mum; museum; music; name; nap; neck; news; newspaper; night; noise; nose; number; ocean; office; paint; pair; palace; pancake; paper; parent; park; partner; party; patch; peace; pencil; penguin; people; person; pet; picnic; picture; pie; piece; pig; pillow; pineapple; pink; pirate; pizza; plan; planet; planning; pole; police; pond; present; prince; princess; prize; professor; puppy; purple; rabbit; radio; rain; rainbow; rectangle; red; rescue; restaurant; rice; river; road; robot; rocket; roof; room; ruler; run; running; safety; salad; sand; sandwich; Saturday; sauce; sausage; school; science; sea; second; secret; set; shark; shed; sheep; shirt; shoe; shop; shopping; show; shower; side; singing; sink; siren; size; skate; skateboard; skeleton; skiing; sky; sleep; snake; snow; song; sound; soup; space; speed; spelling; spider; sport; stage; stairs; star; storey; storm; story; street; sugar; summer; sun; sunday; sweet; sword; system; tail; tea; teacher; team; television; tennis; tent; theatre; thought; thunder; Thursday; tiger; time; today; toe; toilet; tomato; tooth; top; torch; town; toy; traffic; train; training; travel; treasure; tree; trip; trophy; truck; Tuesday; turn; turning; tv; type; uncle; walk; walking; wall; war; watch; water; waterfall; wave; way; wedding;

wednesday; week; weekend; vest; whale; wheel; white; video; village; wind; window; winner; winter; witch; volcano; wolf; woman; wood; world; worm; writing; yard; year; yellow; zebra; zoo;

*Nouns belonging to school level Year 1 (520 nouns):*

adult; adventure; aeroplane; afternoon; animal; answer; apple; arm; army; arrest; art; baby; bacon; bag; ball; ballet; balloon; bank; barbecue; baseball; basket; basketball; bat; battle; beach; bear; bed; bedroom; bee; beef; bird; birthday; bit; black; blanket; blood; blue; boat; body; book; bottle; box; boxing; boy; brand; bread; breakfast; brother; brown; brush; bucket; building; bull; bunch; bus; business; butter; butterfly; button; cabin; cake; camel; camping; can; car; carpet; cash; castle; cat; cave; cereal; chain; chair; change; chess; chess; chest; chicken; child; chin; chip; chocolate; choice; circus; city; class; classroom; climbing; clothes; club; coffee; coin; cold; collar; collection; colour; competition; complex; computer; concert; cook; cookie; cooking; cost; cottage; cotton; count; cousin; cow; crash; cream; creature; cricket; crime; crocodile; cross; cup; cupboard; dad; dance; dancer; dancing; day; december; desert; desk; devil; diamond; dinner; dinosaur; dirt; disco; dive; diving; dog; doll; dolphin; donkey; door; drawing; dream; dress; drink; drive; drop; duck; earth; elephant; engine; eye; face; fact; factory; fall; family; farm; farmer; fashion; fat; father; favourite; field; fire; fish; fishing; flash; floor; flower; fly; fog; food; foot; football; forest; fox; frame; friday; friend; frog; fruit; fun; fur; game; garden; gate; gear; ghost; gift; girl; glass; glasses; goal; god; gold; golf; grandmother; grass; green; grey; ground; group; guitar; gun; gym; gymnastics; hair; hall; hammer; hand; hat; head; heart; heaven; helicopter; hero; hill; hole; holiday; home; homework; honey; hope; horse; hospital; hotel; hour; house; hug; hunting; idea; information; island; jacket; jail; january; jar; joke; joy; june; jungle; kangaroo; kick; kid; king; kiss; kit; kitten; knife; lady; lake; land; lane; lap; laptop; lawn; learning; leg; lemon; leopard; lettuce; library; life; light; lightning; line; lion; lip; living; lounge; love; lunch; luncheon; machine; man; march; market; mask; master; mat; match; matter; meal; meat; medal; medicine; mess; message; metal; microphone; midnight; milk; minute; miss; monday; money; monkey; monster; morning; mother; mountain; mouse; mouth; Mrs; mud; mum; murder; music; name; neck; need; nest; night; noise; note; number; ocean; opening; oven; owl; paint; painting; pair; palace; paper; parent; park; party; pastry; patch; pencil; penguin; people; person; pet; picnic; piece; pig; pink; pirate; pizza; plan; planet; playground; pocket; point; pole; police; pond; pony; port; potato; prawn; present; prince; princess; prize; problem; pub; puppy; purple; rabbit; rain; rainbow; rat; reason; red; rescue; rest; restaurant; right; river; road; robot; rocket; roof; room; rope; rose; round; run; running; safety; salad; sand; sandwich; Saturday; sauce; scarf; school; science; sea; seat; second; set; shadow; shape; shark; shed; sheep; sheet; ship; shooting; shop; shopping; shorts; shot; shoulder; shower; side; silver; singer; singing; sink; siren; skateboard; skeleton; skiing; skull; sky; sleep; snack; snake; snow; son; song; sound; soup; space; speed; spider; sport; stadium; stairs; stand; star; step; storm; story; strawberry; street; stretch; strike; summer; sun; sunday; sweat; sweat; tale; tank; taste; tea; teacher; teaching; team; tennis; tent; thought; thunder; thursday; tiger; time; toast; today; toilet; tomato; tooth; top; towel; town; toy; track; train; training; travel; treasure; tree; trophy; truck; try; tuesday; tunnel; turn; turning; tv; type; uncle; walk; walking; wall; van; war; warehouse; watch; water; way; wedding; wednesday; week; weekend; vegetable; whale; wheel; white; wife; village; window; wing; winter; witch; wolf; woman; wood; word; worry; writing; yard; year; yellow; zebra;

*Nouns belonging to school level Year 2 (642 nouns):*

ad; adult; aeroplane; afternoon; age; air; airport; alarm; animal; ant; apple; arm; art; august; baby; back; bacon; bag; ball; balloon; banana; barbecue; bark; basketball; bat; bathroom; battle; bay; beach; bear; bed; bedroom; bee; beer; bench; bird; birthday; bit; bite; black; blanket; blood; blue; boat; body; bomb; bone; book; bottle; bowl; box; boy; boyfriend; brain; bread; breakfast; breath; breed; bridge; brother; brown; brush; bucket; building; bull; bunch; bus; business; butter; butterfly; cabbage; cake; calculator; camel; camera; camp; camping; can; cancer; car; carnival; carpet; carrot; cartoon; case; cash; cast; castle; cat; cave; chain; chair; challenge; chat; chef; chess; chest; chicken; chimney; chip; chocolate; choice; circle; city; class; classroom; climbing; clock; clothes; cloud; club; code; coffee; cold; college; colour; competition; computer; cook; cookie; cooking; cost; cottage; cough; count; counter; country; court; cousin; cow; crab; craft; crash; cream; creature; crew; cricket; crime; crocodile; cross; crystal; cup; cupboard; customer; cutlery; dance; dancing; daughter; day; death; december; deck; deer; desert; devil; diamond; diary; dice; dinner; dinosaur; disco; disease; distance; dive; diving; dog; doll; dolphin; donkey; door; drawer; drawing; dream; dress; drink; drive; drop; duck; earth; elephant; enemy; engine; evening; evil; exercise; eye; face; factory; fall; family; fantasy; farm; farmer; fat; favourite; feeling; fence; ferry; field; fire; fish; fishing; flash; flight; floor; flour; fly; food; fog; football; force; forest; form; fox; frame; friend; frog; fruit; fun; funeral; fur; furniture; future; game; gang; garden; gate; gear; ghost; gift; girl; glass; glasses; glue; goal; god; gold; golf; grass; green; grey; ground; group; guard; guitar; gun; gymnastics; hair; ham; hand; hat; hate; head; heart; heat; hero; hill; history; hobby; hockey; hole; holiday; home; homework; honey; hope; horse; hospital; hotel; hour; house; hug; human; hunting; husband; ice; idea; imagination; inch; island; jacket; jail; jam; jewellery; joke; joy; juice; jungle; junk; kangaroo; kettle; kick; killing; king; kiss; kitchen; kite; kitten; knife; lab; laboratory; ladder; lady; lake; lamb; land; laser; lawn; lead; leader; leg; legend; lemon; lemonade; leopard; lesson; level; library; lie; life; light; lightning; line; lion; living; log; lounge; love; lunch; luncheon; machine; magic; mail; man; mango; mark; market; mask; master; matter; may; meal; meat; medal; member; menu; mess; message; metal; microphone; midnight; milk; mind; mirror; miss; missile; monday; money; monkey; monster; month; morning; mother; mouse; mouth; Mrs; mud; mug; mum; museum; music; mystery; name; nap; neck; necklace; need; news; newspaper; night; noise; nose; number; obstacle; ocean; october; opening; opera; oven; owl; pain; paint; painting; pair; palace; pan; pancake; paper; parcel; parent; park; partner; party; patch; peace; pencil; penguin; people; person; pet; petrol; piano; pie; piece; pig; pillow; pink; pirate; pizza; plan; planet; planning; plant; playground; point; pole; police; pond; pony; pork; port; potato; prawn; present; president; prince; princess; prize; problem; professor; promise; puppy; purple; push; rabbit; radio; rain; rainbow; rat; razor; red; rescue; research; rest; restaurant; rice; river; road; robot; rock; rocket; roof; room; rope; round; rubber; rule; ruler; run; running; runway; saddle; safety; sailing; salad; salmon; salt; sand; sandwich; Saturday; sausage; scarf; school; science; scratch; sea; seat; second; secret; seed; set; shape; shark; shed; sheep; sheet; ship; shoe; shooting; shop; shopping; shorts; shot; shoulder; shower; side; sign; singer; singing; sink; siren; skateboard; skeleton; skin; skirt; sky; sleep; smoke; snake; snow; soldier; son; song; sound; soup; space; speed; spelling; spider; spirit; spoon; square; stadium; stage; stairs; stand; star; step; stomach; storey; storm; story; straw; strawberry; street; string; student; summer; sun; sunday; tail; talk; tank; tea; teacher; teaching; team; teaspoon; teenager; tent; thought; thunderstorm; thursday; tiger; time; tin; toast; today; toe; toilet; tongue; tooth; top; torch; touch; towel; town; toy; track; train; training; treasure; tree; trophy; trouble; truck; truth; try; tuesday; tunnel; turn; turning; tv; uncle; uniform; unit; walk; walking; wall; valley; war; wardrobe; warrior; watch; water; waterfall; wave; way; website; wedding; wednesday; week; weekend; veil; whale; wheel; white; video; wife; village; wind; window; wing; winter; witch; volcano; wolf; woman; wood; word; worry; wrist; writing; yard; year; yellow; zebra;

*Nouns belonging to school level Year 3 (1051 nouns):*

account; accuracy; ache; act; action; actor; ad; addition; adult; adventure; aeroplane; afternoon; age; agent; air; airport; alarm; album; alcohol; allowance; alphabet; angel; angle; animal; ankle; answer; ant; apartment; apple; area; arm; army; arrest; art; artist; attention; audience; august; aunt; author; autumn; award; baby; back; backpack; bacon; bag; bakery; balcony; ball; ballet; balloon; banana; bandage; bank; barbecue; barber; bark; baseball; basement; basket; basketball; bat; bathroom; battle; bay; beach; bean; bear; beauty; bed; bedroom; bee; beef; beer; behaviour; bench; berry; bicycle; bike; bin; bird; birthday; bit; bite; black; blackboard; blade; blanket; blood; blue; boat; body; bomb; bone; book; booking; bottle; bowl; box; boxing; boy; boyfriend; brain; brake; branch; bread; breakfast; breath; breed; brick; bride; bridge; brother; brown; brush; bucket; building; bull; bullet; bunch; bus; business; butter; butterfly; button; cabbage; cabin; cake; calculator; calendar; camel; camera; camp; camping; campsite; can; cancer; cap; car; carnival; carpet; carrot; cartoon; case; cash; casserole; cast; castle; cat; cause; cave; ceiling; cereal; chain; chair; challenge; champion; championship; chance; change; chat; check; chess; chef; chess; chest; chicken; child; chimney; chin; chip; chocolate; choice; circle; circus; city; class; classic; classroom; cliff; climbing; clinic; clock; cloth; clothes; clothing; cloud; club; clutch; coal; coat; coconut; code; coffee; coin; cola; cold; collar; collection; college; colour; column; comedy; comic; company; competition; complex; computer; concert; cook; cookie; cooking; core; corn; cost; costume; cottage; cotton; cough; count; counter; country; courage; court; cousin; cow; crab; crack; craft; crash; cream; creature; crew; cricket; crime; crocodile; cross; crowd; crystal; cup; cupboard; curve; customer; cutlery; dad; dance; dancer; dancing; darkness; daughter; dawn; day; death; december; deck; deer; desert; design; desire; dessert; detective; devil; diamond; diary; dice; dinner; dinosaur; dirt; disaster; disc; disco; disease; disguise; dishwasher; disk; distance; dive; diver; diving; dog; doll; dolphin; donkey; door; drawer; drawing; dream; dress; drink; drive; drop; drum; duck; dust; duty; ear; earth; earthquake; east; edge; electricity; element; elephant; email; empire; enemy; energy; engine; enthusiasm; entrance; envelope; error; evening; evil; excitement; exercise; experiment; expert; explosion; explosive; eye; face; fact; factory; fall; family; fantasy; farm; farmer; fashion; fat; father; favourite; fear; feeling; female; fence; ferry; field; fight; figure; finger; fire; fish; fishing; fist; flash; flat; flesh; flight; floor; flour; flower; fly; fog; food; foot; football; force; forest; form; fortune; fox; frame; friday; friend; fright; frog; fruit; fun; funeral; fur; furniture; future; game; gang; garden; gas; gate; gear; ghost; gift; girl; glass; glasses; glue; goal; goalkeeper; good; gold; golf; government; grandmother; grandson; grass; green; grey; grin; groom; ground; group; guard; guitar; gun; gym; gymnastics; hall; hair; hairdresser; hall; ham; hammer; hand; happiness; harmony; hat; hate; head; health; heart; heat; heaven; hedge; height; helicopter; hell; helmet; hero; hill; history; hobby; hockey; hole; holiday; home; homework; honesty; honey; hope; horn; horse; hospital; hotel; hour; house; hug; human; hunting; husband; ice; idea; imagination; inch; information; ink; invasion; invention; investigation; iron; island; jacket; jail; jam; january; jar; jaw; jeans; jewellery; joke; journal; journey; joy; juice; july; june; jungle; junk; kangaroo; keeper; kettle; kick; kid; killing; king; kiss; kit; kitchen; kite; kitten; knife; knot; lab; laboratory; ladder; lady; lake; lamb; land; landing; lane; language; lap; laptop; laser; launch; law; lawn; lead; leader; learning; leg; legend; lemon; lemonade; leopard; lesson; lettuce; level; liar; library; lie; life; light; lighting; lightning; line; link; lion; lip; literacy; litre; liver; living; log; lounge; love; luck; luggage; lunch; luncheon; machine; magazine; magic; mail; man; mango; mansion; map; march; mark; market; mask; master; mat; match; matter; may; mayor; meal; meat; medal; medication; medicine; meeting; member; membership; menu; mess; message; metal; microphone; midnight; milk; mind; miner; minute; mirror; miss; missile; mist; mix; mixture; mode; model; monday; money; monkey; monster; month; moonlight; morning; mother; mountain; mouse; mouth; Mr; Mrs; mud; mug; mum; murder; muscle; museum; music; mystery; name; nap; neck; necklace; need; nest; news; newspaper; night; nightmare; noise; north; nose; note; notice; number; nurse; oak; object; obstacle; ocean; october; office; officer; oil; onion; opening; opera; oven; owl; owner; oxygen; pace; pack; pain; paint; painting; pair; palace; pan; pancake; paper; parachute; parcel; parent; park; parking; partner; party; password; pastry; patch; pattern; pea; peace; peach; perfume; person; personality; pet; petrol; photo; piano; picnic; picture; pie; piece; pig; pillow; pin; pineapple; pink; pirate; pitch; pizza; place; plan; planet; planning; plant; plastic; playground; pleasure; pocket; poem; point; pole; police; pond; pony; pork; port; post; poster; potato; prawn; present; president; priest; prince; princess; prison; prisoner; prize; problem; professional; professor; promise; property; pub; pudding; puppy; purple; push; pyramid; quest; question; quiet; quiz; rabbit; radio; rain; rainbow; raincoat; rat; razor; reason; recipe; rectangle; red; reflection; region; relief; reply; report; rescue; research; rest; restaurant; revenge; rice; right; river; road; robbery; robot; rock; rocket; roof; room; rope; rose; round; rubber; rule; ruler; run; running; runway; saddle; safety; sailing; salad; salmon; salt; sand; sandwich; Saturday; sauce; sausage; scar; scarf; school; science; scientist; scrap; scratch; sea; season; seat; second; secret; security; seed; self; sense; series; set; setting; shadow; shape; shark; shed; sheep; sheet; shield; ship; shirt; shoe; shooting; shop; shopping; shorts; shot; shoulder; show; shower; side; sign; silence; singer; singing; sink; sir; siren; sister; site; size; skate; skateboard; skeleton; skiing; skill; skin; skirt; sky; slap; sleep; smile; smoke; smoking; snack; snake; snow; soap; soil; soldier; son; song; sound; soup; source; south; space; species; speech; speed; spelling; sphere; spider; spirit; spoon; sport; squad; square; stadium; stage; stairs; stand; star; state; statue; steak; steam; step; stick; stomach; stone; storey; storm; story; straw; strawberry; stream; street; stretch; strike; stroke; student; studio; study; substance; sugar; summer; sun; sunday; sunglasses; sunlight; supermarket; supporter; surface; surfing; surroundings; swan; sweat; sweet; switch; sword; system; tail; talk; tank; taste; tea; teacher; teaching; team; teaspoon; teenager; telescope; television; tennis; tent; test; text; theatre; thought; thunder; thunderstorm; thursday; tick; tiger; time; tin; title; toast; today; toe; toilet; tomato; tomb; tongue; tooth; top; torch; tornado; touch; tournament; towel; tower; town; toy; track; train; training; transport; travel; tray; treasure; tree; tribe; trip; troops; trouble; truck; trumpet; truth; try; tube; tuesday; tunnel; turn; turning; tv; twin; type; uncle; underwear; uniform; unit; walk; walking; wall; wallet; valley; van; war; wardrobe; warehouse; warrior; watch; water; waterfall; wave; way; weapon; weather; website; wedding; wednesday; week; weekend; vegetable; veil; vest; whale; wheel; white; video; wife; village; wind; window; wing; winter; witch; volcano; wolf; woman; wood; word; world; worm; worry; vote; wrist; writer; writing; yard; year; yellow; zebra; zoo;

*Nouns belonging to school level Year 4 (825 nouns):*

act; action; actor; ad; adult; adventure; aeroplane; afternoon; age; agent; air; airport; alarm; angel; animal; ankle; answer; ant; apartment; apple; area; arm; army; art; attention; august; aunt; award; baby; back; backpack; bacon; bag; balcony; ball; ballet; balloon; banana; bandage; bark; baseball; basement; basket; basketball; bat; bathroom; battle; bay; beach; bear; beauty; bed; bedroom; beef; beer; behaviour; bench; bicycle; bike; bird; birthday; bit; bite; black; blanket; blood; blue; boat; body; bomb; bone; book; bottle; bowl; box; boxing; boy; boyfriend; brain; branch; bread; breakfast; breath; breed; brick; bridge; brother; brown; brush; bucket; building; bull; bullet; bunch; bus; butter; butterfly; button; cabin; cake; camera; camp; camping; can; cancer; cap; car; carpet; carrot; cartoon; case; cash; castle; cat; cave; ceiling; cereal; chain; chair; challenge; champion; championship; chance;

chat; cheese; chef; chest; chicken; child; chimney; chin; chip; chocolate; choice; circle; circus; city; class; classic; classroom; cliff; climbing; clinic; clock; cloth; clothes; clothing; cloud; club; coat; code; coffee; cold; collar; colour; comedy; comic; competition; computer; concert; cook; cookie; cooking; cost; costume; cottage; cough; country; courage; court; cousin; cow; crack; craft; crash; cream; creature; crew; cricket; crime; cross; crowd; crystal; cup; cupboard; dad; dance; dancer; dancing; darkness; daughter; day; death; deck; deer; desert; dessert; detective; devil; diamond; diary; dinner; dinosaur; disco; disaster; disco; disguise; distance; dog; doll; door; dream; dress; drink; drive; drop; drum; duck; duty; ear; earth; earthquake; east; electricity; element; elephant; enemy; energy; engine; entrance; envelope; evening; evil; excitement; exercise; experiment; explosion; explosive; eye; face; fact; factory; fall; family; farm; fashion; fat; father; fear; feeling; fence; field; fight; figure; fire; fish; fishing; flash; flight; floor; flower; fly; fog; food; foot; football; force; forest; form; fox; frame; friday; friend; fright; frog; fruit; fun; funeral; fur; furniture; future; game; gang; garden; gas; gate; gear; ghost; girl; glass; glasses; goal; gold; golf; government; grandmother; grandson; grass; green; grey; grin; ground; group; guard; guitar; gun; gym; gymnastics; hair; hall; ham; hammer; hand; hate; head; health; heart; heat; heaven; height; helicopter; hell; helmet; hero; hill; history; hole; holiday; home; homework; honey; hope; horn; horse; hospital; hotel; hour; house; hug; human; hunting; husband; ice; idea; imagination; information; invasion; invention; island; jacket; jail; jam; jar; jeans; jewellery; journey; joy; juice; jungle; junk; kangaroo; kettle; kick; killing; king; kiss; kitchen; kite; kitten; knife; ladder; lady; lake; lamb; land; landing; lane; language; lap; laptop; laser; law; lawn; lead; leader; learning; leg; legend; lemon; lemonade; leopard; lesson; lettuce; level; library; life; light; lightning; line; lion; literacy; living; log; lounge; love; luck; luggage; lunch; lunchtime; machine; mail; man; mango; mansion; map; march; mark; market; mask; master; mat; match; matter; may; meal; meat; medal; medicine; meeting; mess; message; metal; midnight; milk; minute; miss; mist; mix; mixture; model; monday; money; monster; month; morning; mother; mountain; mouse; mouth; Mrs; mud; mum; museum; music; mystery; name; nap; neck; necklace; need; nest; news; newspaper; night; nightmare; noise; north; nose; note; notice; number; object; obstacle; ocean; october; office; oil; onion; opening; oven; owner; pack; pain; paint; pair; palace; paper; parachute; parcel; parent; park; party; patch; pattern; peace; peach; pencil; penguin; people; perfume; person; personality; pet; petrol; photo; piano; picnic; picture; pie; piece; pig; pillow; pin; pink; pirate; pizza; place; plan; planet; planning; plant; plastic; playground; pleasure; pocket; point; pole; police; pony; post; poster; present; president; prince; princess; prison; prize; problem; professional; professor; property; puppy; purple; push; quest; question; quiet; quiz; rabbit; radio; rain; rainbow; raincoat; rat; reason; recipe; rectangle; red; reply; rescue; rest; restaurant; revenge; rice; right; river; road; robbery; robot; rock; rocket; roof; room; rope; rose; round; rubber; rule; ruler; run; running; saddle; safety; salad; sand; sandwich; Saturday; sauce; sausage; scar; scarf; school; science; scientist; sea; season; seat; second; secret; security; self; sense; set; setting; shadow; shape; shark; shed; sheep; sheet; ship; shirt; shoe; shooting; shop; shopping; shorts; shot; shoulder; show; shower; side; sign; silence; silver; singer; singing; sink; sir; siren; size; skate; skateboard; skeleton; skiing; skill; skin; skull; sky; slap; smile; smoke; snake; snow; soldier; son; song; sound; soup; south; space; species; speed; spelling; sphere; spider; spoon; sport; squad; square; stadium; stage; stairs; stand; star; state; statue; step; stick; stomach; stone; storey; storm; story; strawberry; stream; street; stretch; strike; string; stroke; study; sugar; summer; sun; Sunday; sunlight; supermarket; surface; surfing; surroundings; sweat; sweet; switch; sword; system; tail; talk; tank; taste; tea; teacher; teaching; team; teenager; telescope; television; tennis; tent; test; thought; thunder; Thursday; tick; tiger; time; tin; toast; today; toe; toilet; tomato; tongue; tooth; top; torch; tornado; touch; tournament; towel; tower; town; toy; track; traffic; trail; train; training; transport; travel; treasure; tree; trip; trophy; trouble; truck; try; tube; Tuesday; tunnel; turn; turning; tv; twin; type; uncle; walk; walking; wall; valley; van; war; wardrobe; warehouse; warrior; watch; water; waterfall; wave; way; weapon; weather; wedding; Wednesday; weed; weekend; vegetable; weight; whale; wheat; wheel; white; video; wife; village; wind; window; vine; wing; winner; winter; witch; volcano; wolf; woman; wood; word; world; worm; worry; vote; writer; writing; yard; year; yellow; zoo;

Unique nouns in unique Wikipedia hyperlinks connecting unique nouns for observed vocabulary of Year 4 (i.e. vocabulary of school level Year 4)

*Alltogether 1072 nouns with the following subdivision.*

*Nouns belonging to school level Preparatory (459 nouns):*

accident; aeroplane; afternoon; air; airport; ambulance; angel; animal; ant; apple; area; arm; army; art; august; baby; back; bacon; badge; bag; ball; ballet; balloon; banana; bark; basket; basketball; bat; battle; beach; bear; bed; bird; birthday; bit; bite; black; blood; blue; boat; bomb; bone; book; bottle; bowl; box; boy; branch; bread; breakfast; bridge; brother; brush; bus; butterfly; cake; camera; camping; can; car; case; cash; castle; cat; cave; cereal; chair; champion; cheese; cherry; chicken; child; chocolate; circus; city; class; classroom; climbing; clinic; cloud; clown; club; coast; cold; colour; competition; computer; concert; cookie; costume; country; court; cousin; crash; crew; cricket; cross; crowd; cup; dance; dancing; day; desert; dessert; devil; diary; dinner; dinosaur; disco; dog; doll; door; dream; dress; drink; drive; duck; ear; earth; electricity; elephant; engine; evening; face; factory; fair; family; farm; fat; feeling; fence; festival; fire; fish; fishing; floor; flower; fly; fog; food; foot; football; fox; friday; friend; frog; fruit; game; garden; gardening; gas; gear; ghost; girl; glove; goal; gold; golf; grass; green; grey; guitar; gun; gymnastics; hair; hall; ham; hand; hat; hate; head; heart; heaven; helicopter; helmet; hero; hill; hip; history; holiday; home; homework; honey; hope; horse; hospital; hotel; house; hunting; idea; island; jacket; jail; jam; jazz; jeans; juice; jungle; kangaroo; kick; kid; king; kitchen; kite; kitten; ladder; lake; land; language; leg; lemon; leopard; lesson; lettuce; level; library; light; lightning; line; lion; lounge; love; lunch; machine; man; market; mat; match; matter; meat; medal; medicine; metal; milk; mind; miss; model; monday; monkey; monster; morning; mother; mouse; Mrs; mud; mum; museum; music; musical; name; nap; neck; news; newspaper; night; noise; nose; number; ocean; office; paint; pair; palace; paper; parade; parent; park; party; pasta; patch; peace; pear; pencil; penguin; people; person; pet; picnic; picture; pie; piece; pig; pillow; pink; pirate; pizza; plan; planet; plant; playground; poison; pole; police; pony; present; prince; princess; prize; professor; project; puppy; purple; rabbit; radio; rain; rainbow; rectangle; red; rescue; restaurant; rice; river; road; robot; rocket; roof; room; ruler; run; running; sack; safety; salad; sand; sandwich; Saturday; sauce; sausage; school; science; sea; second; secret; set; shark; shed; sheep; ship; shirt; shoe; shop; shopping; show; shower; side; singing; sink; siren; size; skate; skateboard; skateboarding; skeleton; ski; skiing; sky; sleep; snake; snow; song; sound; soup; space; speed; spelling; spider; sport; stage; stairs; star; storey; storm; story; street; sugar; summer; sun; Sunday; sweet; system; tail; tea; teacher; team; television; temple; tennis; tent; thought; thunder; tiger; timber; time; today; toe; toilet; tomato; tooth; top; torch; town; toy; tractor; traffic; train; training; travel; treasure; tree; triangle; trip; trophy; truck; Tuesday; turn; turning; tv; type; umbrella; uncle; walk; walking; wall; war; watch; water; waterfall; wave; way; wedding; Wednesday; week; weekend; west; whale; wheat; wheel; whistle; white; video; wife; village; wind; window; vine; wing; winner; winter; witch; volcano; wolf; woman; wood; world; worm; writing; yard; year; yellow; zoo;

*Nouns belonging to school level Year 1 (512 nouns):*

adult; adventure; aeroplane; afternoon; ambulance; animal; answer; apple; arm; army; art; august; baby; back; bacon; badge; bag; ball; ballet; balloon; barn; baseball; basket; basketball; bat; battle; beach; bear; bed; bedroom; beef; bird; birthday; bit; black; blanket; blood; blue; boat; body; book; bottle; box; boxing; boy; bread; breakfast; brother; brown; brush; bucket; building; bull; bunch; bus; butter; butterfly; button; cabin; cake; camping; can; car; carpet; cash; castle; cat; cave; century; chain; chair; cheese; chest; chicken; child; chin; chip; chocolate; circle; circus; city; class; classroom; climbing; clothes; clown; club; coffee; cold; collar; colour; competition; computer; concert; contest; cook; cookie; cooking; cost; cottage; court; cousin; cow; crash; cream; creature; cricket; crime; cross; cup; cupboard; dad; dance; dancer; dancing; day; desert; designer; devil; diamond; dinner; dinosaur; dirt; disco; dog; doll; door; dream; dress; drink; drive; drop; duck; earth; elephant; emergency; engine; eye; face; fact; factory; fall; family; farm; fashion; fat; father; field; fire; fish; fishing; flash; floor; flower; fly; fog; food; foot; football; forest; fox; frame; friday; friend; frog; fruit; fun; game; garden; gardening; gate; gear; ghost; girl; glass; glasses; goal; goat; gold; golf; grandmother; grass; green; grey; ground; group; guitar; gun; gym; gymnastics; hair; haircut; hall; hammer; hand; hat; head; heart; heaven; helicopter; help; hero; hill; hole; holiday; home; homework; honey; hope; horse; hospital; hotel; hour; house; hug; hunting; idea; information; island; jacket; jail; jar; joy; June; jungle; kangaroo; kick; kid; killer; king; kiss; kitten; knife; lady; lake; land; lane; lap; laptop; lawn; leaf; learning; leg; lemon; leopard; lettuce; library; life; light; lightning; line; lion; living; lounge; love; lunch; lunchtime; machine; man; march; market; mask; master; mat; match; matter; meal; meat; medal; medicine; mess; message; metal; midnight; milk; minute; miss; Monday; money; monster; morning; mosquito; mother; motor; mountain; mouse; mouth; Mrs; mud; mum; murder; murderer; music; musical; name; nature; noun; need; nest; night; noise; note; number; ocean; opening; oven; paint; pair; palace; paper; parent; park; party; patch; pen; pencil; penguin; people; performance; person; pet; picnic; piece; pig; pink; pirate; pizza; plan; planet; playground; pocket; poison; pole; police; pony; present; prince; princess; prize; problem; puppy; purple; rabbit; rain; rainbow; rainforest; rat; reason; red; rescue; rest; restaurant; right; river; road; robot; rocket; roof; room; rope; rose; round; run; running; safety; sail; salad; sand; sandwich; Saturday; sauce; school; science; sea; season; seat; second; september; set; shadow; shape; shark; shed; sheep; sheet; ship; shooting; shop; shopping; shot; show; shower; side; silver; singer; singing; sink; siren; skateboard; skeleton; ski; skiing; skull; sky; sleep; snack; snake; snow; son; song; sound; soup; space; speed; spider; sport; stadium; stairs; stand; star; step; storm; story; strawberry; street; stretch; strike; sugar; suitcase; summer; sun; Sunday; sweat; sweat; tall; tank; taste; tea; teacher; teaching; team; tennis; tent; thought; thunder; Thursday; tiger; time; toast; today; toilet; tomato; tooth; towel; town; toy; track; tractor; train; training; travel; treasure; tree; trophy; truck; try; Tuesday; tunnel; turn; turning; tv; type; uncle; walk; walking; wall; van; war; warehouse; waste; watch; water; way; wedding; Wednesday; week; weekend; vegetable; whale; wheel; whistle; white; wife; village; wind; window; wing; winter; witch; wolf; volleyball; woman; wood; wool; word; world; writing; yard; year; yellow; zoo;

*Nouns belonging to school level Year 2 (612 nouns):*

ad; adult; aeroplane; afternoon; age; air; airport; alarm; ambulance; animal; ant; apple; arm; army; art; august; baby; back; bacon; badge; bag; ball; balloon; banana; bark; barn; basketball; bat; bathroom; battle; bay; beach; bear; bed; bedroom; beer; bench; bird; birthday; bit; bite; black; blanket; blood; blue; boat; body; bomb; bone; book; boot; bottle; bowl; box; boy; boyfriend; bracelet; brain; bread; breakfast; breath; breed; bridge; brother; brown; brush; bucket; building; bull; bunch; bus; butter; butterfly; cake; camera; camp; camping; can; cancer; car; carpet; carrot; cartoon; case; cash; castle; cat; cave; chain; chair; challenge; chat; chef; chest; chicken; chimney; chip; chocolate; choice; circle; city; class; classroom; climbing; club; clothes; cloud; clown; club; code; coffee; cold; colour; competition; computer; container; contest; cook; cookie; cooking; cost; cottage; cough; country; court; cousin; cow; craft; crash; cream; creature; crew; cricket; crime; cross; crystal; cup; cupboard; dance; dancing; daughter; day; death; deck; deer; desert; dessert; devil; diamond; diary; dinner; dinosaur; disco; distance; dog; doll; door; dream; dress; drink; drive; drop; duck; earth; elephant; enemy; engine; evening; evil; exercise; eye; face; factory; fair; fall; family; farm; fat; feeling; fence; field; fire; fish; fishing; flash; flight; floor; fly; food; foot; football; force; forest; form; fox; frame; freezer; friday; friend; frog; fruit; fuel; fun; funeral; fur; furniture; future; game; gang; garden; gardening; gate; gear; ghost; girl; girlfriend; glass; glasses; goal; gold; golf; grass; grave; green; grey; ground; group; guard; guitar; gun; gymnastics; hair; haircut; ham; hand; harm; hat; hate; head; heart; heat; hero; hill; hip; history; hole; holiday; home; homework; honey; hope; horse; hospital; hotel; hour; house; hug; human; hunting; husband; ice; idea; imagination; island; jacket; jail; jam; jewellery; joy; juice; jungle; junk; kangaroo; kettle; kick; killing; king; kiss; kitchen; kite; kitten; knife; ladder; lady; lake; lamb; land; laser; lawn; lead; leader; leaf; leak; leg; legend; lemon; lemonade; leopard; lesson; level; library; life; light; lightning; line; lion; living; loaf; log; lounge; love; lunch; lunchtime; machine; mail; man; mango; march; mark; market; mask; master; matter; may; meal; meat; medal; medicine; mess; message; metal; mechanic; medal; medicine; mess; message; metal; metre; midnight; milk; mind; mirror; miss; Monday; money; monster; month; morning; mother; motor; mouse; mouth; Mrs; mud; mum; museum; music; musical; mystery; name; nap; neck; necklace; need; news; newspaper; night; noise; nose; number; obstacle; ocean; october; opening; oven; pain; paint; pair; palace; paper; parade; parcel; parent; park; parrot; party; pasta; patch; peace; pen; pencil; penguin; people; person; pet; petrol; piano; pie; piece; pig; pillow; pink; pirate; pizza; plan; planet; planning; plant; playground; point; pole; police; pony; present; president; prince; princess; prize; problem; professor; puppy; purple; push; rabbit; radio; rain; rainbow; rat; red; rescue; rest; restaurant; rice; river; road; robot; rock; rocket; roof; room; rope; round; rubber; run; running; sack; salad; sand; sandwich; Saturday; sausage; scarf; school; science; sea; seat; second; secret; seed; september; set; shape; shark; shed; sheep; sheet; ship; shoe; shooting; shop; shopping; shore; shorts; shot; shoulder; shower; side; sign; silver; singer; sir; siren; skate; skeleton; skin; sky; sleep; smoke; snack; snake; snow; soldier; son; song; sound; soup; south; space; speed; spelling; spider; spoon; square; stadium; stage; staircase; stairs; stand; star; step; stomach; storey; storm; story; strawberry; street; string; summer; sun; Sunday; sweets; tail; talk; tank; tea; teacher; teaching; team; teenager; temper; tent; thought; Thursday; tiger; timber; time; tin; toast; today; toe; toilet; tongue; tooth; top; torch; touch; towel; town; toy; track; tractor; train; training; treasure; tree; triangle; trophy; trouble; truck; try; Tuesday; tunnel; turn; turning; tv; uncle; university; walk; walking; wall; valley; war; wardrobe; warrior; waste; watch; water; waterfall; wave; way; wedding; Wednesday; weed; week; weekend; west; whale; wheel; whistle; white; video; wife; village; wind; window; wing; winter; witch; volcano; wolf; woman; wood; wool; word; world; worry; writing; yard; year; yellow; zone; zoo;

*Nouns belonging to school level Year 3 (825 nouns):*

act; action; actor; ad; adult; adventure; aeroplane; afternoon; age; agent; air; airport; alarm; angel; animal; ankle; answer; ant; apartment; apple; area; arm; army; art; attention;

august; aunt; award; baby; back; backpack; bacon; bag; balcony; ball; ballet; balloon; banana; bandage; bark; baseball; basement; basket; basketball; bat; bathroom; battle; bay; beach; bear; beauty; bed; bedroom; beef; beer; behaviour; bench; bicycle; bike; bird; birthday; bit; bite; black; blanket; blood; blue; boat; body; bomb; bone; book; bottle; bowl; box; boxing; boy; boyfriend; brain; branch; bread; breakfast; breath; breed; brick; bridge; brother; brown; brush; bucket; building; bull; bullet; bunch; bus; butter; butterfly; button; cabin; cake; camera; camp; camping; can; cancer; cap; car; carpet; carrot; cartoon; case; cash; castle; cat; cave; ceiling; cereal; chain; chair; challenge; champion; championship; chance; chat; cheese; chef; chest; chicken; child; chimney; chin; chip; chocolate; choice; circle; circus; city; class; classic; classroom; cliff; climbing; clinic; clock; cloth; clothes; clothing; cloud; club; coat; code; coffee; cold; collar; colour; comedy; comic; competition; computer; concert; cook; cookie; cooking; cost; costume; cottage; cough; country; courage; court; cousin; cow; crack; craft; crash; cream; creature; crew; cricket; crime; crisis; cross; crowd; crystal; cup; cupboard; dad; dance; dancer; dancing; darkness; daughter; day; death; deck; deer; desert; dessert; detective; devil; diamond; diary; dinner; dinosaur; dirt; disaster; disco; disguise; distance; dog; doll; door; dream; dress; drink; drive; drum; duck; duty; ear; earth; earthquake; east; electricity; element; elephant; enemy; energy; engine; entrance; envelope; evening; evil; excitement; exercise; experiment; explosion; explosive; eye; face; fact; factory; fall; family; farm; fashion; fat; father; fear; feeling; fence; field; fight; figure; fire; fish; fishing; flash; flight; floor; flower; fly; fog; food; foot; football; force; forest; form; fox; frame; friday; friend; frog; fruit; fun; funeral; fur; furniture; future; game; gang; garden; gas; gate; gear; ghost; girl; glass; goal; gold; golf; government; grandmother; grandson; grass; green; grey; grin; ground; group; guard; guide; guitar; gun; gym; gymnastics; hail; hair; hall; ham; hammer; hand; happiness; hat; hate; head; health; heart; heat; heaven; height; helicopter; hell; helmet; hero; hill; history; hole; holiday; home; homework; honey; hope; horn; horse; hospital; hotel; hour; house; hug; human; hunting; husband; ice; idea; imagination; information; invasion; invention; island; jacket; jail; jam; jar; jazz; jeans; jewellery; journey; joy; juice; july; june; jungle; junk; kangaroo; kettle; kick; kid; killing; king; kiss; kitchen; kite; kitten; knife; ladder; lady; lake; lamb; land; landing; lane; language; lap; laptop; laser; law; lawn; lead; leader; leaf; leak; learning; leg; legend; lemon; lemonade; leopard; lesson; lettuce; level; library; life; light; lighting; lightning; line; lion; literacy; living; log; lounge; love; luck; luggage; lunch; lunchtime; machine; mail; man; mango; mansion; map; march; mark; market; mask; master; mat; match; matter; may; meal; meat; medal; medicine; meeting; mess; message; metal; midnight; milk; mind; minute; mirror; miss; mist; mix; mixture; model; monday; money; monkey; monster; month; morning; mother; mountain; mouse; mouth; mrs; mud; mum; murder; muscle; museum; music; mystery; name; nap; neck; necklace; need; nest; news; newspaper; night; nightmare; noise; north; nose; note; notice; number; object; obstacle; ocean; october; office; oil; onion; opening; oven; owner; pack; pain; paint; pair; palace; paper; parachute; parcel; parent; park; party; patch; pattern; peace; peach; pencil; penguin; people; perfume; person; personality; pet; petrol; piano; picnic; picture; pie; piece; pig; pillow; pin; pink; pirate; pitch; pizza; place; plan; planet; planning; plant; plastic; playground; pleasure; pocket; point; pole; pony; post; poster; present; president; prince; princess; prison; prize; problem; professional; professor; property; puppy; purple; push; puzzle; quest; question; quiet; quiz; rabbit; radio; rain; rainbow; raincoat; rat; reason; recipe; rectangle; red; reply; rescue; rest; restaurant; revenge; rice; right; river; road; robbery; robot; rock; rocket; roof; room; rope; rose; round; rubber; rule; ruler; run; running; saddle; safety; salad; sand; sandwich; saturday; sauce; sausage; scar; scarf; school; science; scientist; sea; season; seat; second; secret; security; seed; self; sense; series; set; setting; shadow; shed; sheep; shark; shed; sheet; deer; shoe; shooting; shop; shopping; shore; shorts; shot; shoulder; show; shower; side; sign; silence; silver; singer; singing; sink; sir; siren; size; skate; skateboard; skeleton; skiing; skill; skin; skull; sky; slap; sleep; smile; smoke; snack; snake; snow; soldier; son; song; sound; soup; south; space; species; speed; spelling; sphere; spider; spoon; squid; square; stadium; stage; stairs; stand; star; statue; step; stick; stomach; stone; storey; storm; story; strawberry; stream; street; stretch; strike; string; stroke; study; sugar; summer; sun; sunday; sunlight; supermarket; surface; surfing; surroundings; sweat; sweet; switch; sword; system; tail; talk; tank; taste; tea; teacher; teaching; team; teenager; telescope; television; tennis; tent; test; thought; thunder; thursday; tick; tiger; time; tin; toast; today; toe; toilet; tomato; tongue; tooth; top; torch; tornado; touch; tournament; towel; tower; town; toy; track; traffic; trail; train; training; transport; travel; treasure; tree; trip; trophy; trouble; truck; try; tube; tuesday; tunnel; turn; turning; tv; twin; type; uncle; walk; walking; wall; valley; van; war; wardrobe; warehouse; warrior; watch; water; waterfall; wave; way; weapon; weather; wedding; wednesday; week; weekend; vegetable; weed; week; weekend; vegetable; vegetarian; weight; velvet; west; whale; wheat; wheel; whistle; white; video; wife; village; wind; window; wine; wing; winner; winter; witch; volcano; wolf; woman; wood; word; world; worm; worry; vote; writer; writing; yard; year; yellow; zoo;

*Nouns belonging to school level Year 4 (1072 nouns):*

accident; acid; act; action; actor; ad; adult; adventure; advertisement; aeroplane; afternoon; age; agent; air; airport; alarm; ambulance; amusement; analysis; angel; anger; animal; ankle; answer; ant; apartment; apple; april; arch; area; arm; army; art; attention; august; aunt; award; baby; back; backpack; bacon; badge; bag; balcony; ball; ballet; balloon; banana; bandage; bark; barn; baseball; basement; basket; basketball; bat; bathroom; battle; bay; beach; bear; beauty; bed; bedroom; beef; beer; behaviour; bench; bicycle; bike; bikini; bill; bird; birth; birthday; bit; bite; black; blanket; blood; blue; boat; body; bomb; bone; book; boot; bottle; bow; bowl; box; boxing; boy; boyfriend; bracelet; brain; branch; bread; breakfast; breath; breed; breeze; brick; bridge; brother; brown; brush; bucket; budget; building; bull; bullet; bunch; bus; butter; butterfly; button; cabin; cake; camera; camp; camping; can; cancer; cap; car; career; carpet; carrot; cartoon; case; cash; castle; cat; cattle; cave; ceiling; celebration; cent; centimetre; cereal; century; chain; chair; challenge; champion; championship; chance; channel; chat; cheek; cheese; chef; cherry; chest; chicken; child; chill; chimney; chin; chip; chocolate; choice; choir; circle; circus; city; class; classic; classroom; cliff; climbing; clinic; clock; cloth; clothes; clothing; cloud; clown; gun; coat; code; coffee; cold; coldness; collar; colour; comedy; comfort; comic; competition; computer; concert; concrete; confidence; container; contest; conversation; cook; cookie; cooking; copper; cost; costume; cottage; cough; country; courage; court; cousin; cow; crack; craft; crash; cream; creature; crew; cricket; crime; crisis; cross; crowd; crystal; cup; cupboard; cure; customs; dad; damage; dance; dancer; dancing; danger; darkness; dash; daughter; day; death; deck; deer; description; desert; designer; dessert; detective; devil; dictionary; dinner; dinosaur; dirt; disaster; discipline; disco; disguise; distance; distraction; dog; doll; dollar; door; doorway; drama; dream; dress; drink; drive; drop; drum; duck; duty; ear; earth; earthquake; east; elbow; election; electricity; element; elephant; emergency; enemy; energy; engine; entrance; envelope; evening; evil; exam; examination; excitement; exercise; experience; experiment; exploration; explosion; explosive; eye; face; fact; factory; fair; fall; family; farm; fashion; fat; father; fear; february; feeling; fence; festival; fever; field; fight; figure; fire; firm; fish; fishing; flash; flight; floor; flower; fly; fog; food; foot; football; force; forehead; forest; form; fountain; fox; frame; freedom; freezer; friday; friend; fright; frog; fruit; fuel; fun; funeral; fur; furniture; future; game; gang; garden; gardening; gas; gate; gear; gender; ghost; girl; girlfriend; glass; glasses; glove; goal; goat; gold; golf; government; grandfather; grandmother; grandson; grasp; grass; grave; green; grey; grin; ground; group; guard; guide; guitar; gun; gym; gymnastics; hail; hair; haircut; hall; ham; hammer; hand; handbag; happiness; harm; hat; hate; head; heading; headquarters; health; heart; heat; heater; heaven; heel; height; helicopter; hell; helmet; help; hero; hill; hip; history; hold; holiday; home; homework; honey; hope; horn; horse; hospital; hostel; hotel; hour; house; hug; human; hunting; husband; ice; idea; imagination; independence; information; injury; insight; interview; invasion; invention; island; jacket; jail; jam; jar; jazz; jeans; jewel; jewellery; journey; joy; judge; juice; july; june; jungle; junk; kangaroo; kettle; kick; kid; killer; killing; king; kingdom; kiss; kitchen; kite; kitten; knee; knife; ladder; lady; lake; lamb; land; landing; lane; language; lap; laptop; laser; laugh; laughter; law; lawn; lead; leader; leaf; leak; learning; leg; legend; lemon; lemonade; leopard; lesson; lettuce; level; liberty; library; life; light; lighting; lightning; line; lion; liquid; literacy; litter; living; loaf; log; lottery; lounge; love; luck; luggage; lunch; lunchtime; lyrics; machine; mail; male; man; mango; mansion; manual; map; march; mark; market; mask; master; mat; match; material; matter; may; meal; meat; mechanic; medal; medicine; meeting; mess; message; metal; metre; midnight; milk; mind; minute; mirror; misery; miss; mist; mix; mixture; model; monday; money; monkey; monopoly; monster; month; morning; mosquito; mother; motor; mountain; mouse; mouth; mrs; mud; mum; murder; murderer; muscle; museum; music; musical; mystery; name; nap; nation; nature; neck; necklace; need; neighbourhood; nephew; nerve; nest; news; newspaper; nickname; night; nightmare; noise; north; nose; note; notice; nuisance; number; object; obstacle; ocean; october; office; official; oil; onion; opening; opposite; orphan; oven; owner; pack; pain; paint; pair; palace; pants; paper; parachute; parade; paradise; parcel; parent; park; parrot; party; passage; passenger; passport; pasta; patch; patience; pattern; peace; peach; peak; peanut; pear; pen; pencil; penguin; people; performance; perfume; person; personality; pet; petrol; photo; piano; picnic; picture; pie; piece; pig; pillow; pin; pink; pirate; pitch; pizza; place; plan; planet; planning; plant; plastic; playground; pleasure; plumber; pocket; point; poison; pole; police; pony; post; poster; predator; present; president; pressure; price; prince; princess; prison; prize; problem; professional; professor; project; property; protection; pulse; pump; punishment; puppy; purple; purse; push; puzzle; quest; question; quiet; quiz; rabbit; radio; railway; rain; rainbow; raincoat; rainforest; rat; realm; reason; recipe; rectangle; red; referee; remains; reply; reporter; rescue; response; rest; restaurant; return; reward; revenge; ribbon; rice; right; risk; river; road; robbery; robot; rock; rocket; roof; room; root; rope; rose; round; rubber; rule; ruler; rumour; run; running; sack; saddle; sadness; safety; sail; salad; sand; sandwich; saturday; sauce; saucer; sausage; saving; scar; scarf; school; science; scientist; scissors; screen; sea; season; seat; second; secret; security; seed; self; sense; september; series; servant; set; setting; shade; shadow; shame; shampoo; shape; shark; shed; sheep; sheet; ship; shirt; shoe; shooting; shop; shopping; shore; shorts; shot; shoulder; show; shower; side; sign; silence; silver; simulation; singer; singing; sink; sir; siren; size; skate; skateboard; skateboarding; skeleton; ski; skiing; skill; skin; skull; sky; slap; slaughter; slave; sleep; slot; smile; smoke; snack; snake; snow; society; soldier; son; song; soul; sound; soup; south; souvenir; space; spade; species; speed; spelling; sphere; spider; spoon; sport; squad; square; stable; stadium; stage; staircase; stairs; stand; star; starvation; state; statue; status; steel; step; stick; stomach; stone; storey; storm; story; strawberry; stream; street; strength; stretch; strike; string; stroke; study; style; success; sugar; suitcase; summer; summit; sun; sunday; sunlight; sunset; sunshine; supermarket; surface; surfing; surgery; surroundings; sweat; sweet; sweets; switch; sword; system; tail; talk; talks; tank; taste; tea; teacher; teaching; team; technology; teenager; telescope; television; temper; temperature; temple; tennis; tent; test; theft; thief; thought; throat; throne; thunder; thursday; tick; tide; tiger; tights; timber; time; tin; toast; today; toe; toilet; tomato; ton; tone; tongue; tooth; top; torch; tornado; torture; touch; tourist; tournament; towel; tower; town; toy; track; tractor; trade; traffic; trail; train; training; transport; travel; treasure; tree; triangle; trip; trophy; trouble; truck; try; tube; tuesday; tunnel; turn; turning; tv; twin; type; umbrella; uncle; university; waist; walk; walking; wall; valley; van; war; wardrobe; warehouse; warmth; warrior; waste; watch; water; waterfall; wave; way; weapon; weather; webcam; wedding; wednesday; weed; week; weekend; vegetable; vegetarian; weight; velvet; west; whale; wheat; wheel; whistle; white; video; wife; village; wind; window; wine; wing; winner; winter; violence; wish; witch; volcano; wolf; volleyball; woman; wood; wool; word; world; worm; worry; vote; writer; writing; yard; year; yellow; zone; zoo;

(empty on purpose)

## Appendix AF

As discussed in Subchapter 12.2, we carried out random path explorations in hyperlink network of 25153 unique hyperlinks connecting 2878 unique nouns of vocabulary A1&A2&B1&B2&C1&C2 (based on English Vocabulary Profile) so that any hyperlink can be traversed in both actual linking direction and opposite direction and all explorations were started from concept Human (starting from concept Human was motivated by our earlier finding that among 69 shared concepts in hyperlink network of the Wikipedia concept Human has the highest number of occurrences as start or end concept as shown in Table 5.5). This listing shows the number of visits for each of 2878 unique concepts in a random path of 1000000 steps in descending order of the number of visits (the number of visits shown in parenthesis).

*2878 unique nouns in 25153 unique hyperlinks connecting unique nouns of vocabulary A1&A2&B1&B2&C1&C2 supplied with the number of visits (shown in parenthesis) in a random path of 1000000 steps, when started from concept Human and allowing each hyperlink to be traversed in both actual linking direction and opposite direction, in descending order of the number of visits:*

human (4404); water (3607); food (3037); animal (2765); psychology (2604); science (2520); philosophy (2470); earth (2378); nature (2376); culture (2374); mammal (2342); law (2286); agriculture (2187); religion (2169); evolution (2167); economics (2161); education (2123); entertainment (2087); plant (2037); government (2031); technology (1997); crime (1988); transport (1987); oxygen (1944); carbon dioxide (1934); globalization (1930); protein (1916); energy (1915); turkey (1910); bird (1891); business (1891); infrastructure (1875); mind (1863); sun (1861); time (1832); physics (1816); fish (1793); species (1790); music (1781); bacteria (1780); clothing (1738); medicine (1726); insect (1722); nutrition (1701); iron (1692); wood (1678); carbon (1672); cancer (1642); art (1633); biology (1627); god (1617); competition (1603); meat (1603); fruit (1601); history (1577); emotion (1569); literature (1567); death (1559); life (1547); chemistry (1523); society (1510); copper (1508); language (1508); politics (1439); engineering (1428); plastic (1424); wind (1420); shoe (1414); steel (1414); advertising (1413); skin (1396); money (1394); insurance (1390); light (1387); computer (1366); communication (1365); fear (1362); milk (1356); disease (1355); war (1354); knowledge (1348); information (1343); reality (1341); dna (1340); temperature (1337); sea (1327); horse (1325); leather (1325); film (1322); gold (1318); bone (1306); ecology (1302); toy (1297); house (1296); abuse (1289); health (1287); family (1285); suffering (1277); reason (1276); archaeology (1275); blood (1274); soil (1270); conscience (1267); aluminium (1264); red (1258); cattle (1256); vegetable (1254); sustainability (1243); painting (1223); genetics (1211); road (1203); television (1199); commerce (1198); perfection (1196); ship (1188); supermarket (1188); anger (1187); muscle (1186); geography (1182); theory (1180); economy (1178); kitchen (1176); extinction (1174); poetry (1172); metal (1169); gas (1167); civilization (1166); flower (1161); radio (1160); sheep (1159); global warming (1155); experiment (1152); trade (1151); perception (1150); tool (1148); scientist (1140); salt (1133); force (1127); silver (1123); capitalism (1122); door (1122); fat (1121); book (1114); paper (1114); soup (1114); silk (1113); cooking (1112); bread (1111); electricity (1110); science fiction (1109); weather (1109); machine (1101); city (1100); immune system (1096); virtue (1091); hierarchy (1087); leaf (1085); love (1085); reputation (1084); wine (1083); climate (1082); astronomy (1080); police (1077); sense (1074); density (1073); motivation (1073); self-esteem (1068); space (1066); property (1063); fire (1061); sausage (1059); planet (1057); matter (1054); profession (1052); gene (1049); university (1048); brain (1047); organization (1046); writing (1046); measurement (1043); statistics (1038); cotton (1037); narrative (1036); game (1035); heat (1034); sky (1034); creativity (1033); river (1032); lead (1030); seed (1030); dog (1029); future (1029); hunting (1029); market (1028); sugar (1027); tax (1027); employment (1025); liquid (1024); sunlight (1024); desert (1023); corporation (1021); construction (1018); atom (1016); consciousness (1016); artist (1015); fiction (1009); sound (1008); climate change (1005); ocean (1005); shark (1004); yellow (1004); experience (1003); recreation (1002); grass (1001); fashion (997); loneliness (995); risk (995); truth (991); sport (989); system (989); atmosphere (987); title (985); building (984); community (984); research (981); institution (980); writer (980); rice (977); chicken (975); human rights (974); airport (973); goat (973); garden (969); virus (967); butter (966); friendship (964); intelligence (962); famine (960); leadership (960); pollution (960); marriage (953); tiger (950); hobby (947); ice (944); gender (943); theatre (943); aircraft (941); digestion (940); pressure (938); heart (934); lake (932); learning (931); year (925); child (924); bat (922); snow (922); sculpture (921); perfume (920); wheat (918); novel (917); contract (910); rain (910); evaluation (907); reptile (907); logic (905); tobacco (903); day (902); cloud (893); erosion (892); school (888); rainforest (885); wealth (881); analogy (879); manufacturing (879); singing (879); green (873); pizza (873); violence (872); glass (871); burial (869); tree (866); architecture (863); woman (863); happiness (858); yogurt (854); mining (852);



terrorism (851); electronics (850); air conditioning (849); dance (849); recycling (849); adaptation (845); coal (842); camping (841); geology (841); cheese (838); coast (838); management (838); design (837); smoke (837); therapy (836); acid (834); honey (834); party (832); engine (831); invasion (831); hospital (829); alcohol (828); probability (826); commodity (823); swimming pool (823); torture (823); fishing (822); innovation (822); justice (822); flight (818); rabbit (818); x-ray (818); bronze (817); vitamin (815); wool (814); banana (810); dinosaur (806); tea (805); pink (804); beef (803); travel (803); tourism (801); idea (800); mask (800); pie (797); salad (797); mail (796); pain (793); infection (790); taste (790); anxiety (788); sex (788); hair (786); ozone (785); crocodile (784); observation (783); snake (782); democracy (781); friction (781); volcano (781); artificial intelligence (780); propaganda (779); health care (777); reproduction (776); spirit (776); drug (775); person (775); spice (775); wedding (775); cat (774); oak (774); image (771); industry (771); ownership (771); vehicle (771); white (771); museum (770); noun (769); walking (769); symbol (768); garlic (767); pet (757); rat (757); star (757); translation (757); flour (756); season (756); structure (755); adjective (754); fuel (754); liver (754); farm (753); laboratory (752); result (749); gift (748); potato (745); punishment (745); vinegar (745); coffee (744); obesity (742); public transport (739); pride (738); aggression (733); bed (732); data (730); racism (728); debt (727); lung (725); finance (724); elephant (723); professor (723); slavery (722); belief (719); photography (719); world (719); concrete (716); skeleton (713); liberty (712); teacher (711); father (710); concept (709); honour (709); hypothesis (708); feather (707); gardening (707); error (705); surgery (705); authority (704); roof (702); drought (701); ant (700); restaurant (699); revolution (698); disability (697); tomato (697); tragedy (694); black (692); stereotype (691); ritual (689); volume (687); dolphin (686); night (686); drink (685); blue (684); drama (684); landscape (683); homelessness (682); factory (680); currency (678); video game (678); emergency (677); grammar (677); memory (677); murder (677); controversy (675); lighting (675); produce (675); rocket (673); pottery (672); intellectual (671); bank (670); bus (669); tin (669); brass (667); habitat (667); marketing (667); bee (666); imagination (663); word (663); man (662); dust (661); evidence (661); mountain (661); sand (661); ambiguity (660); carbon monoxide (660); lion (659); male (659); flood (658); infant (658); celebrity (657); onion (657); privacy (657); stroke (657); wheel (657); air (652); brand (652); sleep (650); cholesterol (649); tradition (649); olive (648); beer (644); gambling (643); weapon (643); regulation (641); simulation (641); suicide (641); training (641); kidney (640); meal (638); retail (638); skill (638); jazz (637); parent (637); poverty (637); hygiene (636); storm (636); boy (635); consumer (634); economist (633); glove (632); clock (631); rope (630); spider (630); thought (630); month (625); beauty (624); crystal (623); deer (621); fast food (620); frog (620); safety (620); plan (618); solution (618); angel (617); train (617); park (615); camel (614); hand (614); philosopher (614); herb (613); craft (612); debate (611); envy (610); judge (609); pleasure (609); security (609); individual (608); peace (608); dream (607); female (606); kilogram (606); lightning (606); feedback (604); mirror (604); devil (602); rape (600); poison (599); jury (598); laser (598); summer (598); headache (597); mobile phone (597); prison (596); sign (596); mouse (595); cake (594); empathy (594); dessert (593); graphics (593); cereal (592); library (589); adult (587); wilderness (586); metaphor (585); birth (584); credit card (584); drawing (583); tongue (582); calendar (580); eye (580); region (579); autumn (578); cargo (578); soul (578); document (576); opera (576); investment (575); song (575); root (573); coin (572); verb (571); blog (570); body (570); jewellery (570); blade (568); existence (568); pea (568); stock (567); farmer (565); face (564); prediction (564); wisdom (564); resource (563); earthquake (562); mixture (562); pork (562); inflation (560); circle (559); luck (558); newspaper (558); criticism (555); heaven (555); knife (555); scissors (555); theft (555); question (554); predator (553); bear (552); reference (552); slang (552); evil (551); speech (551); immigration (550); nation (550); pregnancy (550); sphere (550); canal (549); linen (549); synonym (549); home (548); mat (546); parliament (546); understanding (543); injury (541); uncertainty (540); map (539); hotel (538); diamond (537); faith (536); ceremony (535); uniform (535); bicycle (531); fraud (531); soft drink (531); violin (531); curry (530); paint (530); apple (529); goal (529); office (529); toddler (529); constitution (528); performance (528); orchestra (527); professional (527); satellite (527); breakfast (526); bruise (526); cold (526); doubt (526); election (525); musician (525); sin (525); village (525); essay (524); thunderstorm (524); lawn (523); pig (523); baseball (522); company (518); fox (518); medal (518); metre (517); tail (517); wildlife (517); bridge (516); ink (515); prayer (515); president (515); oven (514); crop (513); board game (512); foot (512); lawyer (511); country (509); diplomacy (509); enemy (509); leisure (509); mother (509); socialism (509); ambulance (508); classroom (507); pharmacy (507); inheritance (506); omelette (506); town (506); border (505); robot (505); shirt (505); trail (505); integrity (504); blindness (501); concert (501); actor (500); childhood (500); audience (499); mosque (499); rose (498); asset (496); lemon (496); temple (494); college (493); apartment (492); cemetery (492); trousers (492); joke (490); dignity (488); population (488); fantasy (487); police officer (487); soap (487); stomach (486); tooth (486); court (484); funeral (484); lunch (484); disaster (483); furniture (483); proposition (483); skull (483); basketball (482); curtain (482); ice cream (482); spoon (481); tornado (481); carpet (480); interest (480); disco (479); sunset (479); telephone (479); battle (478); inquiry (478); team (478); area (477); disgust (477); complexity (476); lecture (476); towel (476); length (475); sailing (475); straw (475); wave (475); jealousy (474); lie (474); retirement (473); refugee (472); stream (471); invention (470); monopoly (470); crisis (469); flag (469); aspirin (468); window (468); explosion (467); material (467); mushroom (467); software (467); mosquito (465); waste (465); bacon (464); glasses (464); literacy (464); paradox (464); piano (464); rhythm (464); punctuation (463); curiosity (462); castle (459); monster (459);

comedy (458); pear (458); winter (458); chess (457); wheelchair (456); beard (455); engineer (455); expert (455); spreadsheet (454); generation (453); laughter (453); partnership (452); protest (452); shampoo (452); treaty (452); bark (450); fee (450); flame (450); website (450); medication (449); angle (448); deception (448); bomb (447); ghost (447); rainbow (447); speed (447); leopard (446); match (445); welfare (445); phenomenon (444); psychologist (444); street (444); coconut (443); cream (443); mango (443); hell (442); pine (442); riot (442); combat (441); cricket (441); materialism (441); nerve (441); runway (441); wire (441); washing machine (440); hatred (439); radiation (439); zoo (439); priest (438); sword (438); code (437); procession (437); tent (437); boot (436); housewife (435); humour (435); bag (433); beak (433); bean (433); cookie (433); unemployment (431); discrimination (429); paradise (429); polar bear (429); respect (428); sunglasses (428); button (427); fact (427); football (427); skirt (427); leak (426); pasta (426); crab (425); kite (425); parrot (425); smile (425); architect (424); beach (424); coral (424); cost (424); definition (424); grandparent (424); cash (423); harvest (423); saint (423); grape (422); argument (421); collaboration (421); starvation (421); rubber (420); arrest (419); embarrassment (419); offspring (419); student (417); tank (417); toilet (417); wasp (417); animation (416); candle (416); traffic (416); journalist (415); valley (415); ear (414); irony (414); leg (414); loan (414); noise (414); prime minister (414); truck (414); grey (413); hail (411); steam (411); strap (411); berry (410); tennis (409); tide (409); backpack (408); pillow (408); price (408); wife (408); grain (407); magistrate (407); oil (407); pump (407); camera (406); momentum (406); persuasion (406); pharmacist (405); spinach (405); detective (404); festival (404); intellect (404); chest (403); income (403); surface (403); policy (402); thermometer (402); exercise (401); strawberry (401); abortion (400); bottle (400); referendum (400); shame (400); wallet (400); peanut (399); republic (399); triangle (399); frost (398); bribery (397); doll (397); ice hockey (397); stock market (397); dice (396); nickname (396); brick (395); helicopter (394); pancake (394); prosecutor (394); sacrifice (394); port (393); storey (392); airline (391); cucumber (391); parachute (391); people (391); email (390); hero (390); nationality (390); particle (390); composer (389); donkey (389); tractor (389); whale (389); continent (386); label (386); nest (386); tunnel (386); cycling (383); running (383); shopping (383); patient (382); aid (381); household (381); sunrise (381); forest (380); shyness (380); project (379); tuna (379); dirt (378); sunday (378); fur (377); chocolate (376); database (376); fluid (376); cigarette (375); divorce (375); prejudice (375); cherry (374); tights (374); vandalism (374); analysis (373); blame (373); curriculum (373); video (373); official (372); opinion (372); ball (371); horizon (371); purple (371); wing (371); auction (370); navy (370); news (370); quantity (369); dvd (368); euro (368); addition (367); number (367); necklace (366); adverb (364); butterfly (364); knee (364); neck (364); salary (364); symptom (364); hazard (362); interaction (362); sadness (362); basement (361); chimney (361); fever (361); arrow (360); box (359); chef (359); chemist (359); soap opera (358); fog (357); helmet (357); problem (357); sauce (357); brown (356); cable (356); kiss (356); microphone (356); sail (356); vaccine (356); dress (355); status symbol (355); fair (354); juice (354); litre (354); lyrics (354); throne (354); twin (354); miracle (353); irritation (352); weight (352); awareness (351); gang (351); guitar (350); second (350); validity (350); pedestrian (349); weed (349); customer (348); rib (348); pastry (347); carrot (346); owl (346); revelation (346); antibiotic (345); height (345); laundry (345); telescope (345); chart (344); idiom (344); conversation (343); denim (343); rectangle (343); brush (342); exchange rate (342); hug (342); missile (342); mouth (342); cooperation (341); revenge (341); waist (341); formula (340); paradigm (340); bias (339); diagram (339); secondary school (339); west (339); firefighter (338); head (338); imitation (338); island (338); payment (338); sewing (338); illness (337); negotiation (337); peach (337); pyramid (337); ratio (337); revenue (337); cloth (336); insight (336); accident (335); gentleman (335); journalism (335); rescue (335); sweater (335); attention (334); cartoon (334); salmon (334); clown (333); emperor (333); photograph (333); sibling (333); vocabulary (333); landing (332); chair (331); fence (331); panic (330); penguin (330); proverb (330); magazine (329); vice (329); boat (328); exhibition (328); bite (327); girl (327); handbag (327); instinct (327); kangaroo (327); legend (327); surfing (327); ballet (325); cow (325); poster (324); rudeness (324); self-awareness (324); chemical (323); genius (323); traffic light (323); denial (322); feeling (322); rush hour (322); nose (321); presenter (321); worship (321); courage (319); hat (319); jargon (319); icon (318); plural (318); resort (318); saddle (317); suffix (316); cutlery (315); jacket (315); suburb (315); tribe (315); bakery (314); bullet (314); vaccination (314); wound (314); cathedral (313); vein (313); dimension (312); import (312); jam (312); peasant (312); tram (312); customs (311); junk food (311); studio (311); week (311); entity (310); longevity (310); blanket (309); insomnia (309); mansion (309); thunder (309); daylight (308); mud (308); soldier (308); jaw (307); pattern (307); pub (307); pupil (307); warrior (307); calf (306); portrait (306); county (305); donation (305); husband (305); scar (305); snack (305); cabbage (303); circus (303); biscuit (302); sandal (302); export (301); industrialization (301); referee (301); debit card (300); palace (300); techno (300); ancestor (299); baggage (299); humility (299); politician (299); choir (298); bathroom (297); branch (297); breast (297); grief (297); hammer (297); investor (297); optimism (297); gossip (296); saturday (296); sink (296); watch (296); apostrophe (295); career (295); cliff (295); corruption (295); umbrella (295); distance (294); hip (294); ferry (293); role (293); shower (293); giraffe (292); hall (292); lip (292); resentment (292); yacht (292); cod (291); illustration (291); golf (290); transportation (289); virtual reality (289); barn (288); reasoning (288); hope (287); webcam (287); vine (287); worm (287); bookcase (286); diary (286); living room (286); october (286); warehouse (286); worry (286); bay (285); birthday (285); bracelet (285); carbon footprint (285); funding (285); playground (285); pen (284); recession (284); november (283); barbecue

(282); prince (282); woodland (282); zebra (282); floor (281); peer pressure (280); province (280); review (280); wall (280); workshop (280); explanation (279); fly (279); monkey (279); robbery (279); shadow (279); t-shirt (279); rash (278); saving (278); steak (278); pension (277); ankle (276); ironing (276); souvenir (276); wage (276); alphabet (275); solitude (275); awe (274); butcher (274); disappointment (274); kindness (274); recruitment (274); costume (273); dawn (273); extract (273); sock (273); candidate (272); column (272); smoking (272); earring (271); nightmare (271); stadium (271); east (270); joint (270); lottery (270); melody (270); casserole (269); spectrum (269); bureaucracy (268); full stop (268); shorts (268); thursday (268); shield (267); ski (267); empire (266); hour (266); monument (266); neighbourhood (266); pity (266); army (265); carriage (265); cello (265); department store (265); desk (265); forgiveness (265); message (265); description (264); dialect (264); loft (262); logo (262); vegetation (261); balloon (260); common sense (260); duty (260); pencil (260); dialogue (259); brake (258); jeans (258); skateboarding (258); bride (257); chewing gum (257); cliché (257); contradiction (257); rhyme (257); shoulder (257); whistle (257); homework (256); assault (255); clause (255); elegance (255); mayor (255); pudding (255); sandwich (255); fireplace (254); loyalty (254); prosperity (254); shed (254); trophy (254); carnival (253); certainty (253); choice (253); gesture (253); destiny (252); historian (252); laptop (252); poet (252); ribbon (252); telecommunications (252); independence (251); boxing (250); harmony (250); switch (250); yard (250); harm (249); trial (249); van (249); central heating (248); dinner (248); ham (248); hyphen (248); morning (248); passport (248); digital camera (247); honesty (247); obstacle (247); railway (247); silence (247); eyelash (246); innocence (246); stupidity (246); smog (245); ton (245); volleyball (245); victory (244); addiction (243); consultant (243); selfishness (243); baker (242); convenience (242); bowl (241); eagle (241); gram (241); shape (241); holiday (240); march (240); coaching (239); precedent (239); room (239); author (238); cushion (238); hostage (238); principle (238); receptionist (238); surgeon (238); technician (238); toe (238); cd-rom (237); chapel (237); inch (237); solicitor (237); threat (237); dictionary (236); rebellion (236); skiing (236); pond (235); cough (234); friday (234); legislation (234); roundabout (234); witness (234); frying pan (233); leek (233); applause (232); output (232); passenger (232); snowboarding (232); cheque (231); club (231); exaggeration (231); millennium (231); name (231); whisky (231); award (230); comb (230); remote control (230); vanity (230); cupboard (229); flesh (229); hill (229); necessity (229); tournament (229); gymnastics (228); well-being (228); vowel (228); bestseller (227); disc jockey (227); inspector (227); pocket (227); lesson (225); parking (225); picnic (225); preposition (225); suspense (225); february (224); noon (224); phrase (224); shore (224); tomb (224); video clip (224); affection (223); cross (223); knot (223); main course (223); paw (223); son (223); teaspoon (223); comfort (222); toothbrush (221); duck (220); exploration (220); nightclub (220); subsidy (220); bit (219); essence (219); south (219); syllable (219); consideration (218); ladder (218); sympathy (218); xenophobia (218); barber (217); expense (217); wrist (217); cheek (216); protagonist (216); thesis (216); tick (216); acceptance (215); broccoli (215); laziness (215); mechanic (215); postcard (215); scrap (215); strategy (215); january (214); designer (213); illusion (213); lettuce (213); forgery (212); tutor (212); weekday (212); comedian (211); grave (211); line (211); marathon (211); veil (211); ceiling (210); century (210); flute (210); teaching (210); electrician (209); steering wheel (209); toast (209); audition (208); pineapple (208); contempt (207); negligence (207); preference (206); pulse (206); elite (205); generalization (205); burglary (204); garment (204); quotation (204); sir (204); wardrobe (204); sailor (203); vegetarian (203); answer (202); concentration (202); diploma (202); failure (202); north (202); relief (202); amusement (201); clinic (201); spouse (201); stairs (201); hedge (200); puzzle (200); relevance (200); demand (199); stocking (199); hockey (198); finger (197); hunger (197); password (197); chain (196); escalator (196); intention (196); nurse (195); slope (195); supervisor (195); adoption (194); diving (194); handkerchief (194); litter (194); singer (194); sleeve (194); waterfall (194); yoga (194); coincidence (193); minute (193); nonsense (193); alliance (192); breed (192); diplomat (192); poem (192); publicity (192); bull (191); dancing (191); pronoun (191); superlative (191); discipline (190); incentive (190); present (190); ruler (190); vow (190); advocate (189); dishwasher (189); may (189); receipt (189); acre (188); arm (188); implementation (188); planning (188); wit (188); memorial (187); catering (186); decade (186); nightlife (186); razor (186); shooting (186); confidence (185); gerund (185); guide (185); kilometre (185); count (184); intrusion (184); thumb (184); amateur (183); banking (183); fountain (183); monday (183); appeal (182); exclamation mark (182); group (182); sequence (182); snob (182); speculation (182); budget (181); bulb (181); campsite (181); scarf (181); anchor (180); badge (180); consent (180); greeting (180); kitten (180); soundtrack (179); swan (179); sweat (179); temptation (179); top (179); fluency (178); frustration (178); newsletter (178); prefix (178); nostril (177); cd player (176); centimetre (176); determiner (176); district (176); vocation (176); luggage (175); midnight (175); morale (175); penny (175); cure (174); size (174); stain (174); thigh (174); youth (174); biography (173); chin (173); event (173); journal (173); relish (173); wolf (173); attempt (172); mug (172); parade (172); trilogy (172); tv (172); hate (171); praise (171); promise (171); recipe (171); windsurfing (171); diagnosis (170); endurance (170); mist (170); suitcase (170); arrangement (169); tribute (169); anniversary (168); bun (168); ice skating (168); stable (168); wednesday (168); clutch (167); compromise (167); ignorance (167); enjoyment (166); imprisonment (166); semicolon (165); timber (165); velvet (165); workforce (165); benefit (164); envelope (164); lane (164); millimetre (164); patience (164); privilege (164); scholar (164); terrorist (164); adventure (163); mile (163); scarcity (163); credibility (162); fun (162); balcony (161); bedroom (161); calculator (161); cruelty (161); employer (160); eyebrow (160); hairdresser (160);

menu (160); toothpaste (160); farming (159); fisherman (159); iceberg (159); trumpet (159); discretion (158); drum (158); earnings (158); episode (158); fabric (158); self (158); uncle (158); affair (157); comma (157); gym (157); explosive (156); dishonesty (155); dissertation (155); consonant (154); gate (154); phrasal verb (154); quest (154); tourist (154); civilian (153); effectiveness (153); harassment (153); june (153); landlord (153); remorse (153); scenario (153); takeover (153); bus stop (152); committee (152); corn (152); moustache (152); set (152); appetite (151); need (151); web page (151); basket (150); complaint (150); crowd (150); disposition (150); duvet (150); primary school (150); statue (150); chest of drawers (149); complexion (149); guitarist (149); hypocrisy (149); syllabus (149); daughter (148); bikini (147); facility (147); generosity (147); percentage (147); baby (146); behaviour (146); eyelid (146); overdraft (146); tracksuit (146); chancellor (145); folk (145); landmark (145); myth (145); potential (145); torch (145); wrinkle (145); aunt (144); breath (144); confirmation (144); nomination (144); productivity (144); employee (143); hostel (142); workplace (142); blister (141); gun (141); pin (141); verdict (141); buyer (140); hostility (140); ingredient (140); king (140); retailer (140); citizen (139); frown (139); plumber (139); deodorant (138); girlfriend (138); popularity (138); brother-in-law (137); fare (137); police station (137); tuesday (137); air force (136); campus (136); comparative (136); forehead (136); gear (136); presentation (136); prostitute (136); question mark (136); veteran (136); consensus (135); headquarters (135); puppy (135); seminar (135); signature (135); socialist (135); teamwork (135); dash (134); lighter (134); self-confidence (134); climbing (133); evening (133); exile (133); prisoner (133); ambassador (132); commander (132); fork (132); gain (132); infinitive (132); personality (132); psychiatrist (132); amendment (131); bracket (131); critic (131); dentist (131); note (131); politeness (131); prize (131); august (130); crew (130); gardener (130); moonlight (130); toughness (130); social networking (129); arch (128); blackmail (128); prosecution (128); thirst (128); accountant (127); calculation (127); self-control (127); september (127); simplicity (127); alarm clock (126); likelihood (126); miss (126); shade (126); annoyance (125); championship (125); disguise (125); examination (125); mercy (125); odds (125); december (124); gallery (124); neglect (124); textbook (124); collocation (123); cousin (123); surname (123); backup (122); friend (122); nostalgia (122); volunteer (122); afternoon (121); classic (121); enthusiasm (121); pint (120); suspect (120); photographer (119); realm (119); reform (119); archaeologist (118); council (118); side effect (118); publication (117); courtesy (116); majority (116); spade (116); cave (115); cottage (115); slave (115); ordeal (114); criminal (113); gadget (113); quiz (113); spelling (113); workaholic (113); broadband (112); lady (112); meeting (112); programmer (112); questionnaire (112); blend (111); boyfriend (111); cd (111); cola (111); dining room (111); environmentalist (111); temper (111); curve (110); greed (110); novelty (110); selection (110); conviction (109); ground (109); vote (109); walk (108); container (107); novelist (107); antique (106); bus station (106); trend (106); café (105); pact (105); saucer (105); secretary (105); act (104); inspection (104); manufacturer (104); pair (104); sunshine (104); accuracy (103); drawback (103); kit (103); presumption (103); racist (103); summit (103); supporter (103); agreement (102); cause (102); distraction (102); elbow (102); interview (102); dilemma (101); sincerity (101); trekking (101); album (100); blackboard (100); cap (100); jail (100); weather forecast (100); injustice (99); inventor (99); badminton (98); bucket (98); orphan (98); slap (98); snowboard (98); statistic (98); touch (98); july (97); land (97); lecturer (97); mineral water (97); pole (97); right (97); talk (97); sweet (96); withdrawal (96); occupation (94); raid (94); squad (94); staircase (94); success (94); widow (94); era (93); fibre (93); firework (93); knuckle (93); paragraph (93); petrol (93); recording (93); seat (93); efficiency (92); favourite (92); pronunciation (92); april (91); debit (91); dollar (91); exchange (91); hospitality (91); table tennis (91); underwear (91); purse (90); deck (89); groom (89); shop (89); square (89); vase (89); handout (88); insult (88); loaf (88); melon (88); nap (88); partner (88); sister-in-law (88); bill (87); heel (87); infancy (87); lemonade (87); mrs (86); origin (86); report (86); reporter (86); strength (86); toothache (86); car (85); coup (85); dj (85); requirement (85); teenager (85); allegation (84); machinery (84); researcher (84); tray (84); vest (84); entertainer (83); hip-hop (83); responsibility (83); treasure (83); booking (82); frenzy (82); kick (82); obligation (82); rehearsal (82); rule (82); stone (82); adolescent (81); colour (81); disagreement (81); discussion (81); judgment (81); madam (81); notebook (81); post office (81); side (81); skate (81); seller (80); sentiment (80); willpower (80); dedication (79); repair (79); sack (79); series (79); unrest (79); contestant (78); dislike (78); pony (78); renovation (78); surroundings (78); darkness (77); department (77); firm (77); immigrant (77); input (77); mp3 player (77); cleaner (76); availability (75); champagne (75); commercial (75); documentary (75); idiot (75); impossibility (75); pan (75); slogan (75); brother (74); determination (74); fight (74); grandmother (74); bandage (73); champion (73); fall (73); headline (73); nuisance (73); pay (73); terror (73); width (73); boss (72); component (72); counter (72); institute (72); issue (72); specification (72); vitality (72); device (71); heritage (71); massacre (71); nerves (71); piece (71); recollection (71); tuition (71); advertisement (70); fortnight (70); princess (70); regime (70); celebration (69); crackdown (69); murderer (69); point (69); roommate (69); sensibility (69); throat (69); trip (69); confusion (68); misery (68); publisher (68); rest (68); status (68); unit (68); contribution (67); materialist (67); raincoat (67); solidarity (67); heating (66); motorway (66); sightseeing (66); spam (66); witch (66); bribe (65); clothes (65); disadvantage (65); frontier (65); jungle (65); lap (65); picture (65); skateboard (65); trouble (65); backpacker (64); download (64); kettle (64); expenses (63); hard drive (63); inclination (63); member (63); pensioner (63); saying (63); trash (63); usage (63); fist (62); growth (62); honeymoon (62); pack (62); protection (62); remedy (62); study (62); trainee (62); bookmark (61); dancer (61); degree (61); equation

(61); figure (61); virgin (61); camp (60); case (60); charisma (60); freezer (60); grandfather (60); grill (60); individuality (60); investigation (60); leader (60); redevelopment (60); spokesperson (60); sweatshirt (60); pirate (59); text (59); average (58); content (58); edition (58); greatness (58); mr (58); response (58); underpants (58); bomber (57); first language (57); object (57); scratch (57); weekend (57); difficulty (56); midway (56); narrator (56); possibility (56); progression (56); spite (56); track (56); brochure (55); class (55); fingernail (55); graph (55); loss (55); pc (55); station (55); stimulus (55); story (55); supervision (55); threshold (55); collar (54); defeat (54); deprivation (54); organ (54); production (54); reception (54); sheet (54); supper (54); trace (54); ad (53); commitment (53); creation (53); custom (53); discomfort (53); glue (53); goalkeeper (53); qualification (53); reply (53); comic (52); coverage (52); minority (52); omission (52); peak (52); smoker (52); survival (52); bow (51); intensity (51); intruder (51); itinerary (51); lorry (51); model (51); performer (51); suggestion (51); waiter (51); chance (50); complex (50); joy (50); masterpiece (50); premises (50); return (50); siren (50); slaughter (50); stage (50); weakness (50); aeroplane (49); agent (49); channel (49); chat (49); disc (49); drop (49); enterprise (49); jug (49); level (49); proximity (49); record (49); terrace (49); traffic jam (49); uncountable (49); change (48); church (48); delegate (48); extreme sports (48); jar (48); officer (48); setting (48); embrace (47); exam (47); grasp (47); housing (47); link (47); niece (47); openness (47); phone (47); round (47); rumour (47); strike (47); sum (47); task (47); treat (47); tube (47); delegation (46); dustbin (46); heater (46); host (46); id card (46); insecurity (46); preservation (46); proof (46); remains (46); residence (46); restraint (46); treatment (46); attribute (45); back (45); captain (45); cast (45); claim (45); form (45); jogging (45); log (45); plea (45); savings (45); sector (45); signal (45); ability (44); crash (44); definite article (44); drawer (44); exposure (44); granny (44); lunchtime (44); nervousness (44); post (44); resignation (44); screen (44); style (44); wish (44); barrier (43); card (43); decision (43); disposable income (43); drive (43); horn (43); instructor (43); investigator (43); notice (43); photo (43); show (43); sister (43); substance (43); tenderness (43); toenail (43); alarm (42); capital (42); contraception (42); corpse (42); coward (42); harbour (42); meaning (42); motion (42); motorist (42); movie (42); outbreak (42); place (42); pullover (42); run (42); self-discipline (42); spy (42); bank account (41); capacity (41); coat (41); entrance (41); heir (41); intent (41); labour (41); pants (41); presidency (41); skating (41); technique (41); characteristic (40); check (40); lounge (40); personnel (40); pop (40); preparation (40); prey (40); scandal (40); tower (40); environment (39); junk (39); merger (39); mortality (39); penalty (39); shopkeeper (39); sorrow (39); state (39); string (39); tranquility (39); turn (39); admiration (38); challenge (38); coldness (38); confession (38); fake (38); fragrance (38); purpose (38); sickness (38); sponsorship (38); staff (38); stop (38); assembly (37); draft (37); emission (37); flu (37); fortune (37); quote (37); relation (37); timetable (37); upgrade (37); coastline (36); magic (36); nephew (36); owner (36); reflection (36); rival (36); voyage (36); desire (35); desktop (35); mode (35); secret (35); terminal (35); the internet (35); descendant (34); equal (34); shot (34); simplification (34); fate (33); grandpa (33); heading (33); heart attack (33); leaflet (33); mystery (33); scholarship (33); self-respect (33); exhibit (32); guarantee (32); intervention (32); opportunity (32); opposite (32); sensation (32); site (32); text message (32); win (32); clash (31); competitor (31); limitation (31); plot (31); procedure (31); reign (31); cultivation (30); delight (30); effort (30); element (30); facilities (30); feast (30); guidance (30); resilience (30); tone (30); vet (30); worker (30); bombing (29); conservation (29); course (29); disk (29); grandma (29); installation (29); jumper (29); loathing (29); representation (29); ruling (29); telly (29); amount (28); bench (28); bookshelf (28); conference (28); cyclist (28); delivery (28); disrespect (28); doom (28); field (28); master (28); observer (28); occurrence (28); ornament (28); passage (28); servant (28); theme (28); alcoholic (27); bang (27); cell (27); doorway (27); enquiry (27); equipment (27); fame (27); indication (27); kilo (27); letter (27); push (27); source (27); spark (27); stepmother (27); tension (27); user (27); windscreen (27); account (26); action (26); administration (26); blogger (26); breakthrough (26); comeback (26); concern (26); confrontation (26); contraceptive (26); correction (26); dad (26); effect (26); fighting (26); frame (26); grandson (26); housework (26); journey (26); miner (26); mobile (26); musical (26); pause (26); quarrel (26); runner (26); slot (26); sufferer (26); tip (26); villager (26); addict (25); car park (25); care (25); companion (25); cup (25); cut (25); deputy (25); dump (25); expenditure (25); integration (25); jewel (25); kingdom (25); living (25); make-up (25); mum (25); order (25); pace (25); page (25); policeman (25); prawn (25); rank (25); recovery (25); resolution (25); shuttle (25); strand (25); test (25); travel agent (25); union (25); warmth (25); view (25); attachment (24); band (24); cheerfulness (24); client (24); clue (24); collection (24); contest (24); diver (24); donor (24); granddad (24); improvement (24); instruction (24); isolation (24); killing (24); launch (24); liability (24); mankind (24); mark (24); message board (24); mix (24); move (24); rage (24); rate (24); role model (24); shelter (24); tale (24); talks (24); trek (24); advantage (23); assistance (23); boundary (23); break (23); capital letter (23); cellar (23); circulation (23); cook (23); core (23); destination (23); distinction (23); dive (23); edge (23); embassy (23); flash (23); follower (23); gamble (23); humanity (23); importance (23); instrument (23); jump (23); learner (23); martial art (23); northeast (23); operation (23); patch (23); persistence (23); policewoman (23); purity (23); request (23); stamina (23); successor (23); tour (23); whim (23); worst (23); zone (23); allowance (22); background (22); backpacking (22); board (22); bottom (22); bunch (22); burglar (22); charge (22); consequence (22); consumption (22); contents (22); convention (22); danger (22); detail (22); distress (22); dominance (22); expedition (22); freedom (22); handle (22); hold (22); knob (22); mess (22); optimist (22); period (22); possession (22); prevention (22); rating (22); rebel (22); reserve (22); restriction (22); reversal

(22); rise (22); schoolchild (22); schooling (22); stall (22); standard (22); store (22); strip (22); subtitles (22); support (22); therapist (22); thief (22); try (22); assumption (21); assurance (21); bike (21); breeze (21); carelessness (21); casualty (21); colleague (21); conflict (21); conversion (21); crack (21); credit (21); cv (21); damage (21); daycare (21); deal (21); doctor (21); fairness (21); fire station (21); goodness (21); guilt (21); kind (21); lover (21); misunderstanding (21); painter (21); parcel (21); pastime (21); pence (21); petrol station (21); priority (21); provider (21); retreat (21); roll (21); saucapan (21); score (21); single (21); singular (21); specialist (21); spokesman (21); stick (21); taxpayer (21); timing (21); tune (21); type (21); undertaking (21); vision (21); athletics (20); boost (20); catastrophe (20); chill (20); conclusion (20); corridor (20); creature (20); decoration (20); deficiency (20); desperation (20); habit (20); haircut (20); initiative (20); killer (20); lamb (20); lid (20); measure (20); mention (20); pot (20); rail (20); resident (20); reward (20); richness (20); salesman (20); storage (20); stretch (20); supplier (20); talent (20); turning (20); unhappiness (20); youngster (20); ache (19); bug (19); can (19); coach (19); control (19); disruption (19); function (19); fund (19); guard (19); handwriting (19); idol (19); indefinite article (19); interpretation (19); lab (19); load (19); mechanism (19); part (19); player (19); proposal (19); rock (19); row (19); rug (19); scent (19); self-assurance (19); sweets (19); target (19); way (19); verse (19); accent (18); application (18); cabin (18); campaign (18); click (18); diet (18); dose (18); draught (18); establishment (18); grin (18); gum (18); keeper (18); manager (18); manual (18); parallel (18); principal (18); refund (18); stand (18); today (18); trait (18); ward (18); advice (17); age (17); chip (17); competence (17); conception (17); diesel (17); disorder (17); dot (17); duration (17); excuse (17); eyesight (17); flat (17); fool (17); fright (17); granddaughter (17); landlady (17); mine (17); minimum (17); panel (17); photocopy (17); reach (17); reading (17); rugby (17); serial (17); sitting room (17); smell (17); step (17); troops (17); banker (16); bargain (16); bond (16); booklet (16); courgette (16); cycle (16); echo (16); exit (16); fault (16); grandchild (16); guest (16); initial (16); kid (16); laugh (16); motor (16); proceedings (16); recognition (16); relaxation (16); riches (16); rubbish (16); setback (16); advert (15); aspiration (15); bet (15); bin (15); charm (15); combination (15); dispute (15); eagerness (15); excitement (15); help (15); key (15); native speaker (15); pitch (15); rivalry (15); survey (15); tour guide (15); walker (15); impatience (14); quiet (14); refuge (14); spread (14); appointment (13); cent (13); decline (13); estate (13); hardware (13); hesitation (13); liar (13); local (13); motive (13); overtime (13); pool (13); tablet (13); turnover (13); inspiration (12); query (12); resistance (12); signpost (12); thinker (12); bravery (11); identity (11); membership (11); recruit (11); unity (11); winner (11); graduate (10); comment (0); direction (0); directions (0); end (0); ending (0); exhaust (0); exhaustion (0); hole (0); network (0); networking (0); northwest (0); opening (0); program (0); programme (0); register (0); registration (0); remark (0); resemblance (0); scene (0); scenery (0); similarity (0); southeast (0); superior (0); superiority (0); term (0); terms (0); will (0); willingness (0);

(empty on purpose)

## Appendixes AG

In hyperlink network of articles belonging to Wikipedia category Malta in June 2014 containing 35688 unique hyperlinks we identified the shortest paths. From concept Tourism in Malta to concept Maltese euro coins there are 29 alternative shortest paths having length of three hyperlinks and after exclusion of paths traversing concept Malta there are 11 alternative shortest paths which are all shown here supplied with relation statements we generated for each hyperlink.

<i>Concept</i>	<i>Relation statement for hyperlink connecting concepts</i>	<i>Concept</i>	<i>Relation statement for hyperlink connecting concepts</i>	<i>Concept</i>	<i>Relation statement for hyperlink connecting concepts</i>	<i>Concept</i>
tourism in Malta	forms about 15 percent of	economy of Malta	before year 2008 relied on money system of	lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
tourism in Malta	since year 2010 contains medical tourism recommended by	government of Malta	made in years 1973-2007 money called	lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
tourism in Malta	offers popular beach holidays at	Gozo	is an island with important role in	history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
tourism in Malta	benefits from architecture made by	knights of Malta	are soldiers known to use symbol called	cross of Malta	is an image for coins of 1-2 euros in	euro coins of Malta
tourism in Malta	benefits from architecture made by	knights of Malta	are important people starting from year 1530 in	history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
tourism in Malta	benefits from architecture made by	knights of Malta	was in years 1964-1975 mentioned in decoration of	official state symbol of Malta	is an image for coins of 10-50 cents in	euro coins of Malta
tourism in Malta	goes to see traditional fishing at	Marsaxlokk	is a village shown in banknotes of year 1986 for	lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
tourism in Malta	is an important industrial sector when talking about	overview of Malta	about wars typically deals with	history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
tourism in Malta	is an important industrial sector when talking about	overview of Malta	about visual identity typically mentions	official state symbol of Malta	is an image for coins of 10-50 cents in	euro coins of Malta
tourism in Malta	focuses on history at	Valletta	is a well protected living place since year 1566 in	history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
tourism in Malta	focuses on history at	Valletta	is a city shown in banknotes of year 1989 for	lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta



(empty on purpose)

## Appendixes AH

Based on Appendix AG this is listing of each of 22 unique hyperlinks with its sentence and shows the number coding that we used to create different orderings and variations of these sentences for text material used for silent reading task as well as pre-test and post-test for both experiment group and control group.

Identification number code for each of 22 unique hyperlinks	Sentence for each of 22 unique hyperlinks			Which alternative (A/B/C/D) in corresponding multiple-choice item of this sentence in the correct answer
	<i>Start concept</i>	<i>Relation statement</i>	<i>End concept</i>	
1	cross of Malta	is an image for coins of 1-2 euros in	euro coins of Malta	B
2	economy of Malta	before year 2008 relied on money system of	lira of Malta	D
3	government of Malta	made in years 1973-2007 money called	lira of Malta	C
4	Gozo	is an island with important role in	history of Malta	B
5	history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta	A
6	knights of Malta	are soldiers known to use symbol called	cross of Malta	C
7	knights of Malta	are important people starting from year 1530 in	history of Malta	C
8	knights of Malta	was in years 1964-1975 mentioned in decoration of	official state symbol of Malta	C
9	lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta	A
10	Marsaxlokk	is a village shown in banknotes of year 1986 for	lira of Malta	B
11	official state symbol of Malta	is an image for coins of 10-50 cents in	euro coins of Malta	D
12	overview of Malta	about wars typically deals with	history of Malta	D
13	overview of Malta	about visual identity typically mentions	official state symbol of Malta	C
14	tourism in Malta	forms about 15 percent of	economy of Malta	C
15	tourism in Malta	since year 2010 contains medical tourism recommended by	government of Malta	B
16	tourism in Malta	offers popular beach holidays at	Gozo	D
17	tourism in Malta	benefits from architecture made by	knights of Malta	A
18	tourism in Malta	goes to see traditional fishing at	Marsaxlokk	A
19	tourism in Malta	is an important industrial sector when talking about	overview of Malta	C
20	tourism in Malta	focuses on history at	Valletta	B
21	Valletta	is a well protected living place since year 1566 in	history of Malta	B
22	Valletta	is a city shown in banknotes of year 1989 for	lira of Malta	A

(empty on purpose)

## Appendixes A1

This listing provides the series of 62 sentences that was shown during silent reading task of each of three learning sessions for members of the experiment group (n=24) (for each of three learning sessions the series of 62 sentences was identical). Here 62 sentences were chained in such an ordering that corresponds to traversing cumulatively a series of associative trails leading from concept Tourism in Malta to concept Maltese euro coins along alternative parallel shortest paths in hyperlink network of Wikipedia category Malta.

Figure 10.2 illustrates the ordering of the series of 62 sentences for experiment group. So the idea of this ordering is to first introduce the first hyperlink step for each of 11 shortest paths leading from concept Tourism in Malta to concept Maltese euro coins, next to introduce the second hyperlink step for each of 11 shortest paths, then to introduce the third hyperlink step for each of 11 shortest paths, and after that finally to introduce one by one the full routes of each of 11 shortest paths (thus showing three consecutive hyperlink steps belonging to each of 11 shortest paths).

tourism in Malta	forms about 15 percent of	economy of Malta
tourism in Malta	since year 2010 contains medical tourism recommended by	government of Malta
tourism in Malta	offers popular beach holidays at	Gozo
tourism in Malta	benefits from architecture made by	knights of Malta
tourism in Malta	benefits from architecture made by	knights of Malta
tourism in Malta	benefits from architecture made by	knights of Malta
tourism in Malta	goes to see traditional fishing at	Marsaxlokk
tourism in Malta	is an important industrial sector when talking about	overview of Malta
tourism in Malta	is an important industrial sector when talking about	overview of Malta
tourism in Malta	focuses on history at	Valletta
tourism in Malta	focuses on history at	Valletta
economy of Malta	before year 2008 relied on money system of	lira of Malta
government of Malta	made in years 1973-2007 money called	lira of Malta
Gozo	is an island with important role in	history of Malta
knights of Malta	are soldiers known to use symbol called	cross of Malta
knights of Malta	are important people starting from year 1530 in	history of Malta
knights of Malta	was in years 1964-1975 mentioned in decoration of	official state symbol of Malta
Marsaxlokk	is a village shown in banknotes of year 1986 for	lira of Malta
overview of Malta	about wars typically deals with	history of Malta
overview of Malta	about visual identity typically mentions	official state symbol of Malta
Valletta	is a well protected living place since year 1566 in	history of Malta
Valletta	is a city shown in banknotes of year 1989 for	lira of Malta
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
cross of Malta	is an image for coins of 1-2 euros in	euro coins of Malta
history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
official state symbol of Malta	is an image for coins of 10-50 cents in	euro coins of Malta
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
official state symbol of Malta	is an image for coins of 10-50 cents in	euro coins of Malta
history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
tourism in Malta	forms about 15 percent of	economy of Malta
economy of Malta	before year 2008 relied on money system of	lira of Malta
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
tourism in Malta	since year 2010 contains medical tourism recommended by	government of Malta
government of Malta	made in years 1973-2007 money called	lira of Malta
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
tourism in Malta	offers popular beach holidays at	Gozo
Gozo	is an island with important role in	history of Malta
history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
tourism in Malta	benefits from architecture made by	knights of Malta
knights of Malta	are soldiers known to use symbol called	cross of Malta
cross of Malta	is an image for coins of 1-2 euros in	euro coins of Malta
tourism in Malta	benefits from architecture made by	knights of Malta
knights of Malta	are important people starting from year 1530 in	history of Malta

history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
tourism in Malta	benefits from architecture made by	knights of Malta
knights of Malta	was in years 1964-1975 mentioned in decoration of	official state symbol of Malta
official state symbol of Malta	is an image for coins of 10-50 cents in	euro coins of Malta
tourism in Malta	goes to see traditional fishing at	Marsaxlokk
Marsaxlokk	is a village shown in banknotes of year 1986 for	lira of Malta
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
tourism in Malta	is an important industrial sector when talking about	overview of Malta
overview of Malta	about wars typically deals with	history of Malta
history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
tourism in Malta	is an important industrial sector when talking about	overview of Malta
overview of Malta	about visual identity typically mentions	official state symbol of Malta
official state symbol of Malta	is an image for coins of 10-50 cents in	euro coins of Malta
tourism in Malta	focuses on history at	Valletta
Valletta	is a well protected living place since year 1566 in	history of Malta
history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
tourism in Malta	focuses on history at	Valletta
Valletta	is a city shown in banknotes of year 1989 for	lira of Malta
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta

## Appendixes AJ

This listing shows six different multiple-choice questionnaires that were used for pre-tests 1-3 and post-tests 1-3 (i.e. measurements 1-6) for both members of experiment group and members of control group. These pre-tests 1-3 and post-tests 1-3 (that we also call as measurements 1-6) contained always the same 22 multiple-choice items, each item corresponding to each of 22 unique hyperlinks (shown in Appendix AH) and having four alternative answers we had created so that only one of them is correct.

Each of six multiple-choice questionnaires given during exploration task have different randomized ordering for 22 multiple-choice items (but in each multiple-choice item the four answer alternatives and their ordering always remain the same in each of six questionnaires).

We show here in original layout only multiple-choice questionnaire for measurement 1 (supplied with a list of identification number coding matching with Appendix AH for each of 22 unique hyperlinks) and multiple-choice questionnaires for measurements 2-6 are described here only with lists of identification number coding.

*Multiple-choice questionnaire for measurement 1 (i.e. pre-test 1):*

Ordering of multiple-choice items based on identification number coding shown in Appendix AH for each of 22 unique hyperlinks: 17, 22, 14, 11, 8, 4, 19, 20, 10, 16, 13, 18, 5, 9, 7, 1, 12, 15, 6, 2, 21, 3. Correct answers are shown in Appendix AH.

tourism in Malta	benefits from architecture made by	knights of Malta	A
tourism in Malta	benefits from literature made by	knights of Malta	B
tourism in Malta	benefits from road network made by	knights of Malta	C
tourism in Malta	benefits from innovations made by	knights of Malta	D
Valletta	is a city shown in banknotes of year 1989 for	lira of Malta	A
Valletta	is a mountain shown in banknotes of year 1989 for	lira of Malta	B
Valletta	is a flower shown in banknotes of year 1989 for	lira of Malta	C
Valletta	is a river shown in banknotes of year 1989 for	lira of Malta	D
tourism in Malta	forms about 10 percent of	economy of Malta	A
tourism in Malta	forms about 12 percent of	economy of Malta	B
tourism in Malta	forms about 15 percent of	economy of Malta	C
tourism in Malta	forms about 17 percent of	economy of Malta	D
official state symbol of Malta	is an image for coins of 1-10 cents in	euro coins of Malta	A
official state symbol of Malta	is an image for coins of 1-50 cents in	euro coins of Malta	B
official state symbol of Malta	is an image for coins of 5-50 cents in	euro coins of Malta	C
official state symbol of Malta	is an image for coins of 10-50 cents in	euro coins of Malta	D
knights of Malta	was in years 1944-1975 mentioned in decoration of	official state symbol of Malta	A
knights of Malta	was in years 1944-1985 mentioned in decoration of	official state symbol of Malta	B
knights of Malta	was in years 1964-1975 mentioned in decoration of	official state symbol of Malta	C
knights of Malta	was in years 1964-1985 mentioned in decoration of	official state symbol of Malta	D
Gozo	is a city with important role in	history of Malta	A
Gozo	is an island with important role in	history of Malta	B
Gozo	is a mountain with important role in	history of Malta	C
Gozo	is a house with important role in	history of Malta	D
tourism in Malta	is an important sector for crime when talking about	overview of Malta	A
tourism in Malta	is an important support for sport events when talking about	overview of Malta	B
tourism in Malta	is an important industrial sector when talking about	overview of Malta	C
tourism in Malta	is an important source for pollution when talking about	overview of Malta	D
tourism in Malta	focuses on nature at	Valletta	A
tourism in Malta	focuses on history at	Valletta	B

tourism in Malta	focuses on shopping at	Valletta	C
tourism in Malta	focuses on sports at	Valletta	D
Marsaxlokk	is a valley shown in banknotes of year 1986 for	lira of Malta	A
Marsaxlokk	is a village shown in banknotes of year 1986 for	lira of Malta	B
Marsaxlokk	is a bird shown in banknotes of year 1986 for	lira of Malta	C
Marsaxlokk	is a lake shown in banknotes of year 1986 for	lira of Malta	D
tourism in Malta	offers popular skiing holidays at	Gozo	A
tourism in Malta	offers popular cooking holidays at	Gozo	B
tourism in Malta	offers popular mountain holidays at	Gozo	C
tourism in Malta	offers popular beach holidays at	Gozo	D
overview of Malta	about tourist attractions typically mentions	official state symbol of Malta	A
overview of Malta	about language usage typically mentions	official state symbol of Malta	B
overview of Malta	about visual identity typically mentions	official state symbol of Malta	C
overview of Malta	about school system typically mentions	official state symbol of Malta	D
tourism in Malta	goes to see traditional fishing at	Marsaxlokk	A
tourism in Malta	goes to see traditional skiing at	Marsaxlokk	B
tourism in Malta	goes to see traditional agriculture at	Marsaxlokk	C
tourism in Malta	goes to see traditional dancing at	Marsaxlokk	D
history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta	A
history of Malta	tells that joining money system of EU in year 2007 introduced	euro coins of Malta	B
history of Malta	tells that joining money system of EU in year 2006 introduced	euro coins of Malta	C
history of Malta	tells that joining money system of EU in year 2005 introduced	euro coins of Malta	D
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta	A
lira of Malta	was a money system that was replaced in year 2006 by	euro coins of Malta	B
lira of Malta	was a money system that was replaced in year 2004 by	euro coins of Malta	C
lira of Malta	was a money system that was replaced in year 2002 by	euro coins of Malta	D
knights of Malta	are important people starting from year 1510 in	history of Malta	A
knights of Malta	are important people starting from year 1520 in	history of Malta	B
knights of Malta	are important people starting from year 1530 in	history of Malta	C
knights of Malta	are important people starting from year 1540 in	history of Malta	D
cross of Malta	is an image for coins of 0,50-2 euros in	euro coins of Malta	A
cross of Malta	is an image for coins of 1-2 euros in	euro coins of Malta	B
cross of Malta	is an image for coins of 0,01-0,50 euros in	euro coins of Malta	C
cross of Malta	is an image for coins of 0,10-0,50 euros in	euro coins of Malta	D
overview of Malta	about politics typically deals with	history of Malta	A
overview of Malta	about geography typically deals with	history of Malta	B
overview of Malta	about art typically deals with	history of Malta	C
overview of Malta	about wars typically deals with	history of Malta	D
tourism in Malta	since year 2010 contains adventure tourism recommended by	government of Malta	A
tourism in Malta	since year 2010 contains medical tourism recommended by	government of Malta	B
tourism in Malta	since year 2010 contains nature tourism recommended by	government of Malta	C
tourism in Malta	since year 2010 contains sports tourism recommended by	government of Malta	D
knights of Malta	are soldiers known to use weapon called	cross of Malta	A
knights of Malta	are soldiers known to use strategy called	cross of Malta	B
knights of Malta	are soldiers known to use symbol called	cross of Malta	C
knights of Malta	are soldiers known to use church called	cross of Malta	D
economy of Malta	before year 2005 relied on money system of	lira of Malta	A
economy of Malta	before year 2006 relied on money system of	lira of Malta	B
economy of Malta	before year 2007 relied on money system of	lira of Malta	C
economy of Malta	before year 2008 relied on money system of	lira of Malta	D
Valletta	is a well protected living place since year 1564 in	history of Malta	A
Valletta	is a well protected living place since year 1566 in	history of Malta	B
Valletta	is a well protected living place since year 1568 in	history of Malta	C
Valletta	is a well protected living place since year 1570 in	history of Malta	D
government of Malta	made in years 1953-2007 money called	lira of Malta	A
government of Malta	made in years 1953-2002 money called	lira of Malta	B
government of Malta	made in years 1973-2007 money called	lira of Malta	C
government of Malta	made in years 1973-2002 money called	lira of Malta	D

*Multiple-choice questionnaire for measurement 2 (i.e. post-test 1):*

Ordering of multiple-choice items based on identification number coding shown in Appendix AH for each of 22 unique hyperlinks: 14, 6, 2, 5, 20, 18, 22, 12, 8, 10, 19, 3, 15, 1, 17, 4, 9, 13, 11, 21, 7, 16. Correct answers are shown in Appendix AH.

*Multiple-choice questionnaire for measurement 3 (i.e. pre-test 2):*

Ordering of multiple-choice items based on identification number coding shown in Appendix AH for each of 22 unique hyperlinks: 7, 20, 14, 18, 1, 12, 16, 3, 5, 21, 2, 6, 11, 4, 15, 19, 22, 10, 9, 8, 13, 17. Correct answers are shown in Appendix AH.

*Multiple-choice questionnaire for measurement 4 (i.e. post-test 2):*

Ordering of multiple-choice items based on identification number coding shown in Appendix AH for each of 22 unique hyperlinks: 20, 4, 9, 15, 8, 2, 16, 21, 3, 12, 19, 5, 17, 13, 18, 11, 14, 6, 10, 7, 22, 1. Correct answers are shown in Appendix AH.

*Multiple-choice questionnaire for measurement 5 (i.e. pre-test 3):*

Ordering of multiple-choice items based on identification number coding shown in Appendix AH for each of 22 unique hyperlinks: 9, 14, 15, 3, 22, 8, 10, 2, 18, 6, 21, 7, 16, 11, 5, 20, 19, 4, 13, 1, 17, 12. Correct answers are shown in Appendix AH.

*Multiple-choice questionnaire for measurement 6 (i.e. post-test 3):*

Ordering of multiple-choice items based on identification number coding shown in Appendix AH for each of 22 unique hyperlinks: 4, 11, 13, 5, 8, 21, 10, 19, 3, 18, 15, 2, 17, 12, 7, 6, 20, 22, 1, 14, 16, 9. Correct answers are shown in Appendix AH.



(empty on purpose)

## Appendixes AK

This listing provides three different series of 62 sentences having randomized ordering that were shown during silent reading task for members of the control group. In contrast with the experiment group (see Appendix AI), for members of the control group (n=10) the series of 62 sentences was made to have randomized ordering of sentences for each of three learning sessions. The idea of this randomization is to enable comparison of control group with experiment group which becomes in each three learning sessions exposed to the series of 62 sentences in such chained ordering that corresponds to traversing cumulatively a series of associative trails leading from concept Tourism in Malta to concept Maltese euro coins along alternative parallel shortest paths in hyperlink network.

*The series of 62 sentences for silent reading task of learning session 1 for control group:*

knights of Malta	are important people starting from year 1530 in	history of Malta
tourism in Malta	forms about 15 percent of	economy of Malta
tourism in Malta	benefits from architecture made by	knights of Malta
knights of Malta	are soldiers known to use symbol called	cross of Malta
tourism in Malta	benefits from architecture made by	knights of Malta
knights of Malta	was in years 1964-1975 mentioned in decoration of	official state symbol of Malta
history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
tourism in Malta	offers popular beach holidays at	Gozo
tourism in Malta	focuses on history at	Valletta
history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
tourism in Malta	focuses on history at	Valletta
Valletta	is a well protected living place since year 1566 in	history of Malta
official state symbol of Malta	is an image for coins of 10-50 cents in	euro coins of Malta
history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
Valletta	is a city shown in banknotes of year 1989 for	lira of Malta
tourism in Malta	benefits from architecture made by	knights of Malta
tourism in Malta	offers popular beach holidays at	Gozo
tourism in Malta	benefits from architecture made by	knights of Malta
tourism in Malta	since year 2010 contains medical tourism recommended by	government of Malta
tourism in Malta	goes to see traditional fishing at	Marsaxlokk
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
knights of Malta	are soldiers known to use symbol called	cross of Malta
overview of Malta	about visual identity typically mentions	official state symbol of Malta
history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
overview of Malta	about wars typically deals with	history of Malta
Valletta	is a city shown in banknotes of year 1989 for	lira of Malta
tourism in Malta	is an important industrial sector when talking about	overview of Malta
tourism in Malta	focuses on history at	Valletta
history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
tourism in Malta	forms about 15 percent of	economy of Malta
Gozo	is an island with important role in	history of Malta
economy of Malta	before year 2008 relied on money system of	lira of Malta
Marsaxlokk	is a village shown in banknotes of year 1986 for	lira of Malta
Marsaxlokk	is a village shown in banknotes of year 1986 for	lira of Malta
cross of Malta	is an image for coins of 1-2 euros in	euro coins of Malta
overview of Malta	about wars typically deals with	history of Malta
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
Gozo	is an island with important role in	history of Malta
official state symbol of Malta	is an image for coins of 10-50 cents in	euro coins of Malta
tourism in Malta	goes to see traditional fishing at	Marsaxlokk
Valletta	is a well protected living place since year 1566 in	history of Malta
economy of Malta	before year 2008 relied on money system of	lira of Malta
cross of Malta	is an image for coins of 1-2 euros in	euro coins of Malta
overview of Malta	about visual identity typically mentions	official state symbol of Malta
tourism in Malta	benefits from architecture made by	knights of Malta
knights of Malta	was in years 1964-1975 mentioned in decoration of	official state symbol of Malta
history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
knights of Malta	are important people starting from year 1530 in	history of Malta
government of Malta	made in years 1973-2007 money called	lira of Malta

tourism in Malta	focuses on history at	Valletta
tourism in Malta	is an important industrial sector when talking about	overview of Malta
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
tourism in Malta	since year 2010 contains medical tourism recommended by	government of Malta
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
official state symbol of Malta	is an image for coins of 10-50 cents in	euro coins of Malta
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
tourism in Malta	is an important industrial sector when talking about	overview of Malta
official state symbol of Malta	is an image for coins of 10-50 cents in	euro coins of Malta
history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
government of Malta	made in years 1973-2007 money called	lira of Malta
tourism in Malta	is an important industrial sector when talking about	overview of Malta
tourism in Malta	benefits from architecture made by	knights of Malta

*The series of 62 sentences for silent reading task of learning session 2 for control group:*

tourism in Malta	forms about 15 percent of	economy of Malta
economy of Malta	before year 2008 relied on money system of	lira of Malta
Marsaxlokk	is a village shown in banknotes of year 1986 for	lira of Malta
history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
cross of Malta	is an image for coins of 1-2 euros in	euro coins of Malta
government of Malta	made in years 1973-2007 money called	lira of Malta
tourism in Malta	benefits from architecture made by	knights of Malta
history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
official state symbol of Malta	is an image for coins of 10-50 cents in	euro coins of Malta
Valletta	is a city shown in banknotes of year 1989 for	lira of Malta
tourism in Malta	forms about 15 percent of	economy of Malta
Gozo	is an island with important role in	history of Malta
cross of Malta	is an image for coins of 1-2 euros in	euro coins of Malta
knights of Malta	are important people starting from year 1530 in	history of Malta
overview of Malta	about visual identity typically mentions	official state symbol of Malta
tourism in Malta	goes to see traditional fishing at	Marsaxlokk
knights of Malta	are soldiers known to use symbol called	cross of Malta
history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
tourism in Malta	goes to see traditional fishing at	Marsaxlokk
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
tourism in Malta	benefits from architecture made by	knights of Malta
government of Malta	made in years 1973-2007 money called	lira of Malta
tourism in Malta	is an important industrial sector when talking about	overview of Malta
overview of Malta	about visual identity typically mentions	official state symbol of Malta
knights of Malta	was in years 1964-1975 mentioned in decoration of	official state symbol of Malta
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
tourism in Malta	benefits from architecture made by	knights of Malta
tourism in Malta	focuses on history at	Valletta
knights of Malta	are important people starting from year 1530 in	history of Malta
overview of Malta	about wars typically deals with	history of Malta
official state symbol of Malta	is an image for coins of 10-50 cents in	euro coins of Malta
official state symbol of Malta	is an image for coins of 10-50 cents in	euro coins of Malta
tourism in Malta	since year 2010 contains medical tourism recommended by	government of Malta
knights of Malta	are soldiers known to use symbol called	cross of Malta
Gozo	is an island with important role in	history of Malta
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
tourism in Malta	since year 2010 contains medical tourism recommended by	government of Malta
official state symbol of Malta	is an image for coins of 10-50 cents in	euro coins of Malta
history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
tourism in Malta	is an important industrial sector when talking about	overview of Malta
tourism in Malta	is an important industrial sector when talking about	overview of Malta
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
tourism in Malta	benefits from architecture made by	knights of Malta
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
economy of Malta	before year 2008 relied on money system of	lira of Malta
Valletta	is a well protected living place since year 1566 in	history of Malta
tourism in Malta	focuses on history at	Valletta
history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
overview of Malta	about wars typically deals with	history of Malta
history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
knights of Malta	was in years 1964-1975 mentioned in decoration of	official state symbol of Malta
tourism in Malta	is an important industrial sector when talking about	overview of Malta
Valletta	is a well protected living place since year 1566 in	history of Malta
Valletta	is a city shown in banknotes of year 1989 for	lira of Malta

tourism in Malta	focuses on history at	Valletta
tourism in Malta	focuses on history at	Valletta
history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
tourism in Malta	benefits from architecture made by	knights of Malta
tourism in Malta	offers popular beach holidays at	Gozo
tourism in Malta	benefits from architecture made by	knights of Malta
Marsaxlokk	is a village shown in banknotes of year 1986 for	lira of Malta
tourism in Malta	offers popular beach holidays at	Gozo
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta

*The series of 62 sentences for silent reading task of learning session 3 for control group:*

history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
tourism in Malta	benefits from architecture made by	knights of Malta
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
tourism in Malta	is an important industrial sector when talking about	overview of Malta
tourism in Malta	since year 2010 contains medical tourism recommended by	government of Malta
history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
tourism in Malta	is an important industrial sector when talking about	overview of Malta
knights of Malta	are important people starting from year 1530 in	history of Malta
Marsaxlokk	is a village shown in banknotes of year 1986 for	lira of Malta
history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
tourism in Malta	is an important industrial sector when talking about	overview of Malta
overview of Malta	about visual identity typically mentions	official state symbol of Malta
knights of Malta	was in years 1964-1975 mentioned in decoration of	official state symbol of Malta
overview of Malta	about wars typically deals with	history of Malta
official state symbol of Malta	is an image for coins of 10-50 cents in	euro coins of Malta
tourism in Malta	since year 2010 contains medical tourism recommended by	government of Malta
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
cross of Malta	is an image for coins of 1-2 euros in	euro coins of Malta
Valletta	is a city shown in banknotes of year 1989 for	lira of Malta
tourism in Malta	offers popular beach holidays at	Gozo
history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
government of Malta	made in years 1973-2007 money called	lira of Malta
tourism in Malta	benefits from architecture made by	knights of Malta
knights of Malta	are soldiers known to use symbol called	cross of Malta
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
overview of Malta	about wars typically deals with	history of Malta
Valletta	is a well protected living place since year 1566 in	history of Malta
tourism in Malta	goes to see traditional fishing at	Marsaxlokk
tourism in Malta	benefits from architecture made by	knights of Malta
official state symbol of Malta	is an image for coins of 10-50 cents in	euro coins of Malta
Marsaxlokk	is a village shown in banknotes of year 1986 for	lira of Malta
tourism in Malta	goes to see traditional fishing at	Marsaxlokk
tourism in Malta	focuses on history at	Valletta
history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
tourism in Malta	benefits from architecture made by	knights of Malta
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
tourism in Malta	benefits from architecture made by	knights of Malta
Valletta	is a city shown in banknotes of year 1989 for	lira of Malta
knights of Malta	was in years 1964-1975 mentioned in decoration of	official state symbol of Malta
cross of Malta	is an image for coins of 1-2 euros in	euro coins of Malta
government of Malta	made in years 1973-2007 money called	lira of Malta
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
tourism in Malta	benefits from architecture made by	knights of Malta
overview of Malta	about visual identity typically mentions	official state symbol of Malta
knights of Malta	are important people starting from year 1530 in	history of Malta
tourism in Malta	offers popular beach holidays at	Gozo
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
official state symbol of Malta	is an image for coins of 10-50 cents in	euro coins of Malta
tourism in Malta	focuses on history at	Valletta
tourism in Malta	forms about 15 percent of	economy of Malta
Gozo	is an island with important role in	history of Malta
tourism in Malta	forms about 15 percent of	economy of Malta
tourism in Malta	focuses on history at	Valletta
economy of Malta	before year 2008 relied on money system of	lira of Malta
history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta
official state symbol of Malta	is an image for coins of 10-50 cents in	euro coins of Malta
tourism in Malta	focuses on history at	Valletta
Valletta	is a well protected living place since year 1566 in	history of Malta

economy of Malta	before year 2008 relied on money system of	lira of Malta
knights of Malta	are soldiers known to use symbol called	cross of Malta
lira of Malta	was a money system that was replaced in year 2008 by	euro coins of Malta
tourism in Malta	is an important industrial sector when talking about	overview of Malta
Gozo	is an island with important role in	history of Malta
history of Malta	tells that joining money system of EU in year 2008 introduced	euro coins of Malta

## Appendixes AL

This listing shows each of unique 22 pairs of consecutive hyperlinks that exist along the eleven shortest paths leading from concept Tourism in Malta to concept Euro coins of Malta.

Each pair of consecutive hyperlinks is listed here with identification number coding that corresponds to each of 22 unique hyperlinks (shown in Appendix AH):

14&2, 15&3, 16&4, 17&6, 17&7, 17&8, 18&10, 19&12, 19&13, 20&21, 20&22, 2&9, 3&9, 4&5, 6&1, 7&5, 8&11, 10&9, 12&5, 13&11, 21&5, 22&9.

(empty on purpose)

## Appendixes AM

Before the exploration experiment started we asked with this background questionnaire each student to report her gender and age as well as how easy it is for her to adopt knowledge through reading and how successfully she performs at school (see Table 10.18, Table 10.19 and Table 10.20). The two last mentioned questions were replied by selecting a most suitable answer from a scale of five given alternatives.

*Background questionnaire:*

Full name (first name and last name):

Age:

“How easy it is for you to adopt (=learn) new knowledge through reading?”

Very easy

Easy

Moderate

Difficult

Very difficult

“In your opinion, how successfully do you perform at school?”

Excellently

Well

Satisfactorily

Fairly

Faintly



(empty on purpose)

## Appendix AN

This is full listing about how members of experiment group and members of control group answered to each of six multiple-choice questionnaires and what background information was gathered about these persons. In all parts of this Appendix AN identical identification codes refer always to the same unique person.

*Background information about members of experiment group and members of control group:*

Explanation for notation:

N/A = not available.

Experiment group				
Identification code (person)	Gender	Age	How easy it is for you to adopt (=learn) new knowledge through reading?	In your opinion, how successfully do you perform at school?
E1	M	16	3	3
E2	M	16	3	2
E3	F	15	3	3
E4	F	15	3	3
E5	F	15	2	1
E6	M	16	3	2
E7	M	16	3	3
E8	F	15	2	3
E9	F	17	2	2
E10	F	17	2	2
E11	F	18	2	3
E12	F	15	2	2
E13	M	15	2	2
E14	F	15	3	2
E15	F	16	3	2
E16*	M	N/A	N/A	N/A
E17	F	16	2	2
E18	M	16	3	3
E19	F	17	2	2
E20	F	19	3	3
E21	F	17	3.5	2.5
E22*	M	N/A	N/A	N/A
E23*	M	N/A	N/A	N/A
E24	F	18	2	2
One of persons E16/E22/E23 has provided following information: 18, 1, 1				
Control group				
Identification code (person)	Gender	Age	How easy it is for you to adopt (=learn) new knowledge through reading?	In your opinion, how successfully do you perform at school?
C1	F	17	2	2
C2	F	15	3	3
C3	M	17	3	2
C4	F	16	3	3
C5	F	17	2	3
C6	M	18	3	3
C7	F	19	2	2
C8	F	15	2	2
C9	F	15	2	1
C10	F	15	3	2

How members of experiment group and members of control group answered to each of six multiple-choice questionnaires:

Explanation for notation:

1=A, 2=B, 3=C, 4=D, 0=no answer, 9=unclearly indicated answer, 99=multiple answers.

How easy it is for you to adopt (=learn) new knowledge through reading?

1=Very easy, 2=Easy, 3=Moderate 4=Difficult, 5=Very difficult

In your opinion, how successfully do you perform at school?

1=Excellently, 2=Well, 3=Satisfactorily, 4=Fairly, 5=Faintly.

Person	Measurement 1 for Experiment group: Answers to 22 multiple-choice items (multiple-choice items shown here from left to right in order 1-22 based on ordering of identification number coding of 22 unique hyperlinks as shown in Appendix AH)																					
E1	1	2	3	2	4	3	2	2	3	4	3	2	2	3	2	0	1	1	2	2	3	1
E2	2	2	3	2	1	2	2	2	2	3	2	3	2	3	2	3	1	3	4	3	2	3
E3	4	2	1	3	2	3	3	2	3	2	3	1	4	3	4	1	1	4	3	4	4	2
E4	3	3	1	2	2	3	2	2	1	4	3	3	3	4	4	4	1	1	2	4	3	1
E5	3	3	1	3	2	3	4	3	1	4	2	3	3	4	1	4	1	1	3	3	1	1
E6	2	1	1	3	4	4	1	2	4	3	2	2	1	1	1	3	1	2	3	3	4	2
E7	2	3	4	1	2	4	4	3	2	3	4	3	1	3	2	4	4	4	3	2	2	1
E8	1	1	3	3	4	2	4	1	3	4	2	4	2	2	3	3	0	1	4	1	3	1
E9	4	1	2	2	1	2	2	2	1	3	2	2	1	3	3	4	1	3	3	1	3	3
E10	3	2	2	1	2	3	3	2	2	4	1	2	1	4	3	3	1	1	4	2	1	1
E11	3	3	1	1	2	3	1	2	2	2	4	4	3	4	1	4	4	3	3	1	4	1
E12	2	1	3	3	1	3	2	3	3	4	4	2	0	3	3	3	1	1	3	2	2	1
E13	4	2	2	3	3	3	3	2	2	2	2	2	1	3	3	3	3	1	4	2	2	1
E14	2	2	2	3	4	2	2	3	2	2	4	2	0	2	1	3	1	4	3	2	3	1
E15	3	3	1	1	3	3	4	3	2	1	2	2	1	4	2	4	1	3	3	1	3	1
E16	9	4	4	2	9	3	9	2	1	3	9	2	9	9	1	4	9	3	4	9	2	1
E17	4	2	3	1	3	3	4	3	2	2	4	1	1	4	3	4	2	3	4	2	1	2
E18	0	0	0	2	0	2	0	0	4	2	0	2	2	4	1	0	3	0	0	0	0	0
E19	1	4	1	1	1	3	3	2	1	4	2	4	1	4	1	4	1	3	3	2	4	1
E20	2	4	1	1	1	1	3	2	1	2	3	2	3	4	1	4	1	3	3	3	1	4
E21	1	3	4	2	2	3	3	3	2	4	2	2	1	3	3	4	1	3	2	1	3	1
E22	2	2	3	2	3	3	1	1	2	4	2	4	3	2	3	4	4	1	1	2	3	1
E23	3	1	2	3	1	1	3	1	2	1	2	3	2	1	2	3	1	1	4	1	4	1
E24	3	4	3	3	3	3	1	1	1	2	2	1	1	2	3	4	1	4	3	2	2	4
Person	Measurement 1 for Control group: Answers to 22 multiple-choice items (multiple-choice items shown here from left to right in order 1-22 based on ordering of identification number coding of 22 unique hyperlinks as shown in Appendix AH)																					
C1	2	4	3	2	1	3	4	3	1	2	3	3	1	4	4	4	1	4	3	2	2	1
C2	4	4	4	1	2	1	3	1	1	3	3	2	1	2	3	1	1	4	3	1	2	2
C3	1	3	4	3	4	1	1	4	3	2	2	3	3	2	4	1	0	3	1	1	2	2
C4	2	3	3	2	1	1	4	2	3	2	2	1	2	3	3	3	2	3	1	3	2	2
C5	4	2	4	3	2	3	0	2	3	1	1	2	3	4	3	1	0	2	2	1	1	1
C6	3	2	4	1	4	3	3	2	4	2	2	2	3	3	3	4	3	3	3	3	4	1
C7	2	4	1	1	1	3	3	1	1	2	1	2	1	4	4	1	3	2	2	4	3	1
C8	3	4	1	2	1	3	3	3	1	3	2	2	1	3	3	4	1	1	3	1	2	3
C9	0	4	1	3	1	3	2	0	1	1	2	3	3	4	1	1	4	3	4	2	2	2
C10	3	4	1	3	3	2	2	2	2	2	3	2	1	3	3	3	1	3	3	2	4	2
Person	Measurement 2 for Experiment group: Answers to 22 multiple-choice items (multiple-choice items shown here from left to right in order 1-22 based on ordering of																					

n	identification number coding of 22 unique hyperlinks as shown in Appendix AH																					
E1	2	4	3	2	1	3	4	2	2	2	3	3	1	3	2	4	1	1	3	2	0	1
E2	3	2	3	2	4	2	3	3	2	3	3	3	3	1	3	3	1	3	2	3	2	2
E3	2	4	2	1	1	3	2	4	1	2	4	1	3	3	1	4	4	1	3	2	4	1
E4	2	3	1	2	1	3	4	3	1	2	4	4	1	2	2	4	1	1	3	2	3	1
E5	2	4	1	1	1	3	3	4	1	4	4	4	3	3	2	4	1	1	3	2	1	1
E6	2	1	2	1	1	3	3	4	4	99	2	2	1	3	1	4	2	4	1	2	4	2
E7	2	4	3	2	1	3	3	3	1	2	4	3	1	3	1	4	4	1	3	2	3	1
E8	2	4	1	2	1	3	3	1	1	4	2	4	3	3	2	4	1	1	1	2	2	1
E9	2	4	3	2	1	3	3	3	1	2	4	4	3	3	2	4	1	1	3	2	2	1
E10	1	1	2	1	1	3	2	2	2	1	4	2	3	3	1	1	4	1	4	2	2	1
E11	2	4	3	2	1	3	3	3	1	4	4	4	3	3	2	4	1	1	3	2	2	1
E12	2	4	3	2	1	3	0	3	1	2	4	4	1	3	3	4	1	1	3	2	2	1
E13	2	4	1	2	1	3	2	4	1	2	4	1	1	3	0	4	1	1	3	2	2	1
E14	2	4	1	2	1	3	3	3	1	2	4	4	3	3	2	4	1	1	3	2	2	1
E15	4	4	1	1	1	3	1	3	1	2	4	3	1	2	1	4	1	1	3	2	1	1
E16	2	4	3	2	1	3	3	1	1	4	1	2	3	2	4	4	1	1	3	2	4	1
E17	2	4	3	2	1	3	3	4	1	2	2	4	1	4	2	4	1	1	3	1	2	1
E18	2	4	3	2	0	3	0	1	1	0	4	1	1	3	2	4	0	0	3	2	0	0
E19	2	4	1	2	1	3	3	1	1	4	3	4	1	3	2	4	4	1	3	2	2	1
E20	4	4	1	1	1	3	3	3	1	2	2	4	3	3	2	4	1	1	3	2	3	1
E21	2	4	4	2	1	3	3	3	1	4	4	1	3	3	3	4	1	1	3	1	3	1
E22	2	4	1	2	1	3	3	2	1	2	4	4	3	3	2	4	1	1	3	2	2	1
E23	1	4	1	4	4	2	3	2	2	1	1	4	1	3	1	1	1	1	2	2	3	4
E24	2	4	3	3	1	3	2	3	1	2	2	4	3	3	2	4	1	1	3	2	1	1
Person	Measurement 2 for Control group: Answers to 22 multiple-choice items (multiple-choice items shown here from left to right in order 1-22 based on ordering of identification number coding of 22 unique hyperlinks as shown in Appendix AH																					
C1	2	4	1	2	1	3	4	4	1	2	4	4	1	3	2	4	1	1	4	2	4	1
C2	2	4	1	2	1	3	2	3	1	2	4	2	1	3	1	4	1	3	2	2	3	1
C3	4	4	4	3	1	1	3	3	4	2	2	3	3	3	1	1	2	1	0	2	4	3
C4	2	1	1	3	0	3	3	1	1	4	4	4	3	3	2	3	1	2	3	2	2	1
C5	1	4	2	1	1	3	2	2	2	1	4	2	3	3	1	1	4	1	4	2	2	1
C6	2	4	2	2	4	3	3	4	1	1	2	1	1	3	2	4	1	1	3	2	2	4
C7	2	4	3	2	1	3	3	3	1	4	1	4	3	3	2	4	1	1	3	2	1	1
C8	2	4	3	2	1	3	3	3	1	2	4	4	3	3	2	4	1	1	3	2	2	1
C9	2	4	3	1	1	3	2	3	1	2	4	2	1	3	2	1	1	1	4	2	3	1
C10	2	4	2	2	1	3	3	3	1	2	2	2	1	3	3	3	1	3	3	2	4	2
Person	Measurement 3 for Experiment group: Answers to 22 multiple-choice items (multiple-choice items shown here from left to right in order 1-22 based on ordering of identification number coding of 22 unique hyperlinks as shown in Appendix AH																					
E1	2	4	3	2	1	3	0	2	3	2	3	2	1	3	4	2	1	1	3	2	4	4
E2	2	2	2	3	3	2	4	1	3	2	3	4	4	1	1	2	1	1	3	3	2	2
E3	4	4	3	2	1	1	0	4	1	0	4	2	2	3	2	4	1	0	3	2	3	1
E4	2	3	1	2	1	3	1	3	1	2	4	2	1	2	2	4	1	1	3	2	1	1
E5	2	4	3	1	1	3	3	4	1	4	4	4	3	3	2	4	1	1	3	2	1	1
E6	2	2	1	2	4	4	2	1	1	4	1	3	2	1	2	1	3	4	1	3	1	3
E7	2	4	3	2	1	3	3	3	1	2	4	3	1	3	3	4	1	1	2	2	3	1
E8	2	4	1	2	1	3	2	1	1	4	2	4	2	3	2	1	1	1	2	1	3	1
E9	2	4	3	2	1	3	3	3	1	2	4	4	3	3	2	4	1	1	3	2	2	1
E10	2	4	4	3	1	3	3	1	1	2	3	2	1	3	2	4	1	1	3	2	2	1
E11	2	4	3	2	1	3	3	3	1	4	4	4	3	3	2	4	1	1	3	2	2	1
E12	2	4	3	2	1	3	1	3	1	2	4	4	3	3	2	4	1	1	3	2	2	1
E13	4	4	1	2	1	3	2	2	1	2	4	2	3	3	3	4	1	1	3	2	2	1

E14	2	4	4	2	1	3	3	3	1	2	4	4	3	3	2	4	1	1	3	2	2	1
E15	4	4	1	1	1	3	4	2	1	2	4	2	3	2	1	3	1	3	3	2	3	1
E16	2	3	1	2	1	3	3	1	1	4	1	1	3	1	1	4	1	3	3	1	4	1
E17	2	4	3	2	1	3	3	3	1	2	4	4	1	3	2	4	1	1	3	1	3	1
E18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E19	1	4	3	2	1	3	3	2	1	4	3	4	1	3	2	4	4	1	3	2	2	1
E20	2	4	1	1	1	3	3	3	1	2	4	4	3	3	2	4	1	1	3	2	3	1
E21	2	4	4	2	1	3	3	3	1	4	4	1	3	3	3	4	1	1	3	1	3	1
E22	2	4	3	2	1	3	3	1	1	2	4	4	3	3	2	4	1	1	3	2	1	1
E23	1	4	2	2	3	3	3	3	4	1	1	2	1	3	1	2	1	1	2	3	2	1
E24	2	4	1	2	2	3	2	2	1	3	3	4	3	3	2	4	1	1	3	2	2	1
Person	Measurement 3 for Control group: Answers to 22 multiple-choice items (multiple-choice items shown here from left to right in order 1-22 based on ordering of identification number coding of 22 unique hyperlinks as shown in Appendix AH																					
C1	2	4	3	2	1	3	3	1	1	2	4	4	1	3	2	4	1	1	4	2	3	1
C2	4	4	3	2	1	3	1	3	1	1	4	2	1	3	2	4	1	3	3	2	3	1
C3	2	4	1	4	1	2	2	3	3	0	3	3	2	3	3	4	1	1	2	1	1	1
C4	2	4	1	2	1	3	3	3	1	0	4	2	1	3	3	3	2	1	3	2	2	1
C5	3	1	4	3	1	3	4	2	2	1	1	1	4	2	1	1	3	3	2	1	3	1
C6	2	4	9	2	4	3	3	4	1	4	3	2	3	4	3	4	1	1	3	2	3	1
C7	2	4	3	2	1	3	3	3	1	4	1	1	3	3	2	4	1	1	3	4	1	1
C8	2	4	3	2	1	3	3	1	1	2	4	4	1	3	2	4	1	1	3	2	2	1
C9	2	4	3	1	1	3	2	3	1	2	2	2	1	3	2	1	1	1	3	2	3	1
C10	3	4	4	2	1	3	3	2	1	3	2	2	1	3	3	3	1	3	3	1	4	2
Person	Measurement 4 for Experiment group: Answers to 22 multiple-choice items (multiple-choice items shown here from left to right in order 1-22 based on ordering of identification number coding of 22 unique hyperlinks as shown in Appendix AH																					
E1	2	4	3	2	1	3	4	3	1	4	3	2	1	3	3	4	1	1	2	2	3	3
E2	2	1	3	2	2	4	3	2	2	2	2	1	2	2	2	3	3	2	2	3	2	3
E3	4	4	4	2	1	2	3	3	1	4	4	0	3	3	2	4	1	3	3	1	2	2
E4	2	4	1	2	1	3	4	2	1	2	4	2	1	3	2	4	1	1	3	2	4	1
E5	2	4	1	2	1	3	3	3	1	4	4	4	3	3	2	4	1	1	3	2	2	1
E6	1	4	3	2	1	4	3	3	1	1	2	2	2	2	2	2	1	1	4	2	2	4
E7	2	4	1	2	1	3	3	2	1	2	4	3	1	3	2	4	4	1	2	2	3	2
E8	2	4	3	2	1	3	3	3	1	2	2	4	3	3	2	1	1	1	3	1	2	1
E9	2	4	3	2	1	3	3	3	1	2	4	4	3	3	2	4	1	1	3	2	2	1
E10	2	3	2	2	1	3	2	3	1	2	4	3	3	3	2	3	1	3	3	2	2	3
E11	2	4	3	2	1	3	3	3	1	2	4	4	3	3	2	4	1	1	3	2	2	1
E12	2	4	3	2	1	3	3	3	1	2	4	4	3	3	2	4	1	1	3	2	2	1
E13	4	4	3	2	1	3	1	2	1	2	4	2	1	3	2	4	1	1	2	2	2	1
E14	2	4	3	2	1	3	3	3	1	2	4	4	3	3	2	4	1	1	3	2	2	1
E15	2	4	1	2	1	3	1	3	1	2	4	4	3	3	2	3	1	1	3	2	2	1
E16	2	3	1	2	1	3	3	1	1	2	4	2	3	3	2	4	1	1	3	2	1	1
E17	2	4	3	2	1	3	3	3	1	2	4	4	1	3	2	4	1	1	3	2	2	1
E18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E19	2	4	3	2	1	3	3	3	1	4	4	4	3	3	2	4	1	1	3	2	2	1
E20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E21	2	4	3	2	1	3	3	3	1	2	4	4	3	3	2	4	1	1	3	2	2	1
E22	2	4	3	2	1	3	3	3	1	2	4	4	3	3	2	4	1	1	3	2	3	1

E23	2	4	1	4	3	3	3	3	1	3	4	1	1	3	1	3	1	1	0	2	4	3
E24	2	3	3	2	1	3	3	3	1	2	4	4	3	3	2	4	1	1	3	2	1	1
Person	Measurement 4 for Control group: Answers to 22 multiple-choice items (multiple-choice items shown here from left to right in order 1-22 based on ordering of identification number coding of 22 unique hyperlinks as shown in Appendix AH)																					
C1	2	4	1	2	1	3	4	4	1	2	4	4	1	3	2	4	1	1	3	2	2	1
C2	2	4	1	2	1	3	3	3	1	2	4	4	1	3	2	4	1	3	3	1	2	1
C3	1	4	1	2	1	3	3	3	1	2	3	2	1	4	1	4	1	3	3	2	3	3
C4	2	4	3	3	1	3	1	1	1	2	3	3	4	3	2	1	1	2	3	2	1	3
C5	3	1	1	3	2	0	4	2	1	4	2	1	3	3	1	1	1	3	3	2	3	2
C6	2	1	3	2	4	3	1	3	1	2	1	2	3	3	2	4	1	1	3	2	3	3
C7	2	4	3	2	1	3	3	3	1	2	2	4	3	3	2	4	1	1	3	2	2	1
C8	2	4	3	2	1	3	3	3	1	2	4	4	3	3	2	4	1	1	3	2	2	1
C9	2	4	3	1	1	3	2	3	1	2	4	4	1	3	2	4	1	1	3	2	1	1
C10	2	4	3	2	1	2	3	3	1	2	2	2	3	3	3	4	0	1	3	2	3	2
Person	Measurement 5 for Experiment group: Answers to 22 multiple-choice items (multiple-choice items shown here from left to right in order 1-22 based on ordering of identification number coding of 22 unique hyperlinks as shown in Appendix AH)																					
E1	2	4	3	2	1	3	4	3	1	2	3	2	2	3	3	4	1	1	2	2	3	1
E2	2	3	1	2	3	1	2	99	2	9	3	2	2	2	3	4	1	3	2	3	4	2
E3	4	4	4	2	1	3	3	3	1	2	4	1	3	3	2	1	1	1	1	1	2	1
E4	2	3	0	2	1	3	3	0	1	2	4	2	1	3	2	4	1	1	3	2	2	1
E5	2	4	3	2	1	3	3	3	1	4	4	2	3	3	2	4	1	1	3	2	2	1
E6	1	4	1	1	1	3	3	3	1	1	2	1	3	2	3	4	2	4	3	1	4	3
E7	2	4	1	2	1	3	4	3	1	2	4	2	1	3	1	4	4	1	2	2	3	1
E8	2	4	3	2	1	3	3	3	1	2	2	1	3	3	2	1	1	1	3	1	2	1
E9	2	4	3	2	1	3	3	3	1	2	4	1	3	3	2	4	1	1	3	2	2	1
E10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E11	2	4	3	2	1	3	3	3	1	2	4	2	3	3	2	4	1	1	3	2	2	1
E12	2	4	3	2	1	3	3	3	1	2	4	2	3	3	2	4	1	1	3	2	2	1
E13	2	4	3	2	1	3	3	2	1	2	4	2	2	3	2	4	1	1	3	2	2	1
E14	2	4	3	2	1	3	3	3	1	2	4	2	3	3	2	4	1	1	3	2	2	1
E15	2	4	1	1	1	3	1	3	1	2	4	1	3	3	2	4	1	1	3	1	2	1
E16	2	4	1	2	1	3	3	1	1	4	4	2	3	3	2	4	1	1	3	2	4	1
E17	2	4	3	2	1	3	3	3	1	2	4	2	1	3	2	4	1	1	3	2	2	1
E18	4	4	1	2	1	3	0	0	1	2	4	0	1	3	2	4	0	0	3	0	0	1
E19	1	4	3	2	1	3	3	3	1	4	3	2	3	3	2	4	1	1	3	2	2	1
E20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E21	2	4	3	2	1	3	3	3	1	2	4	1	3	3	2	4	1	1	3	2	2	1
E22	2	4	1	2	1	3	3	3	1	2	4	2	3	3	2	4	1	1	3	2	3	1
E23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E24	2	4	1	2	2	3	3	1	1	2	4	2	3	3	2	4	1	1	3	2	4	1
Person	Measurement 5 for Control group: Answers to 22 multiple-choice items (multiple-choice items shown here from left to right in order 1-22 based on ordering of identification number coding of 22 unique hyperlinks as shown in Appendix AH)																					
C1	2	4	1	2	1	3	4	4	1	2	4	2	3	3	2	4	1	1	3	2	2	1
C2	2	4	3	0	1	3	3	3	1	2	4	1	1	3	2	4	1	3	3	2	3	1
C3	1	4	1	4	3	1	3	3	2	2	3	1	3	3	4	4	3	1	0	3	3	3
C4	2	4	1	2	1	3	3	3	1	1	4	2	2	3	2	4	1	1	1	2	2	2
C5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C6	2	4	2	2	1	3	3	3	1	2	1	2	1	3	2	4	1	1	3	2	3	1
C7	2	4	3	2	1	3	3	3	1	2	1	2	3	3	2	4	1	1	3	2	2	1
C8	2	4	3	2	1	3	3	3	1	2	4	2	3	3	2	4	1	1	3	2	2	1
C9	2	4	3	1	1	3	2	3	1	2	4	3	1	3	2	1	4	1	1	2	1	1
C10	2	4	1	2	1	2	3	3	1	2	4	2	3	3	2	4	1	1	3	2	1	1

0																						
Person	Measurement 6 for Experiment group: Answers to 22 multiple-choice items (multiple-choice items shown here from left to right in order 1-22 based on ordering of identification number coding of 22 unique hyperlinks as shown in Appendix AH																					
E1	2	4	1	2	1	3	4	3	1	2	4	4	3	3	4	4	1	1	2	2	3	1
E2	2	1	3	3	3	4	2	2	2	4	1	2	2	3	3	2	3	9	4	1	2	3
E3	4	4	3	2	1	1	3	3	0	2	4	4	3	3	2	4	1	2	1	1	2	1
E4	2	3	3	2	1	3	3	9	1	2	4	2	1	3	2	4	1	1	3	2	1	1
E5	2	4	1	2	1	3	3	3	1	2	4	4	3	3	2	4	0	1	3	2	2	1
E6	2	4	3	2	9	2	3	2	1	4	2	2	1	2	3	4	4	1	3	1	4	2
E7	2	4	1	2	1	3	4	3	1	2	4	3	1	3	1	4	4	1	2	2	3	1
E8	2	4	3	2	1	3	3	3	1	2	2	4	3	3	2	4	1	1	3	1	2	1
E9	2	4	3	2	1	3	3	3	1	2	4	4	3	3	2	4	1	1	3	2	2	1
E10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E11	2	4	3	2	1	3	3	3	1	2	4	4	3	3	2	4	1	1	3	2	2	1
E12	2	4	3	2	1	1	3	3	1	2	4	4	3	3	2	4	1	1	3	2	2	1
E13	4	4	3	2	1	3	2	3	1	2	4	3	2	3	2	4	1	1	3	2	2	1
E14	2	4	3	2	1	3	3	3	1	2	4	4	3	3	2	4	1	1	3	2	2	1
E15	2	4	1	1	1	3	3	3	1	2	4	4	1	3	2	4	1	1	3	1	2	1
E16	2	4	3	2	1	3	3	1	1	4	4	2	3	3	1	4	1	1	3	2	4	1
E17	2	4	3	2	1	3	3	3	1	2	4	4	3	3	2	4	1	1	3	2	2	1
E18	2	4	1	2	1	3	4	3	1	1	4	0	1	3	2	4	1	1	3	2	1	1
E19	2	4	3	2	1	3	3	3	1	2	4	4	3	3	2	4	1	1	3	2	2	1
E20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E21	2	4	3	2	1	3	3	3	1	2	4	4	3	3	2	4	1	1	3	2	2	1
E22	2	4	3	2	1	3	3	3	1	2	4	4	3	3	2	4	1	1	3	2	3	1
E23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E24	2	4	3	2	1	3	3	3	1	2	4	4	3	3	2	4	1	1	3	2	1	1
Person	Measurement 6 for Control group: Answers to 22 multiple-choice items (multiple-choice items shown here from left to right in order 1-22 based on ordering of identification number coding of 22 unique hyperlinks as shown in Appendix AH																					
C1	2	4	3	2	1	3	3	3	1	2	4	4	3	3	2	4	1	1	3	2	2	1
C2	2	4	3	2	1	3	3	3	1	1	4	4	3	3	2	4	1	1	3	1	2	1
C3	1	4	4	2	1	4	2	4	2	3	1	1	1	1	1	3	2	1	2	4	1	2
C4	2	4	4	2	1	3	3	3	1	3	4	2	3	3	1	1	1	1	2	2	1	3
C5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C6	2	4	2	2	1	3	3	3	1	2	2	2	3	3	3	4	1	1	3	2	3	1
C7	2	4	3	2	1	3	3	3	1	2	2	4	3	3	2	4	1	1	3	2	2	1
C8	2	4	3	2	1	3	3	3	1	2	4	4	3	3	2	4	1	1	3	2	2	1
C9	2	4	3	1	1	3	3	3	1	2	4	4	1	3	2	1	1	1	1	2	2	1
C10	0	4	3	2	1	0	3	3	1	2	4	4	3	3	2	4	1	1	3	0	2	0

*In the end of multiple-choice questionnaire of measurement 6 there were these three additional questions to be answered:*

Explanation for notation:

In your opinion how well do you understand English language?

1=Excellently, 2=Well, 3=Satisfactorily, 4=Fairly, 5=Faintly.

How easy it is for you to adopt (=learn) new knowledge through reading?

Before starting this experiment how much did you know about information shown during this experiment about Malta?

1=Very much, 2=Much, 3=Moderately, 4=Little, 5=Very little.

N/A=not available

Experiment group			
Person	In your opinion how well do you understand English language?	How many years you have studied English at school?	Before starting this experiment how much did you know about information shown during this experiment about Malta?
E1	2	4	4
E2	3	10	2
E3	2	8	5
E4	2	4	2
E5	2	13	4
E6	N/A	N/A	5
E7	2	13	1
E8	2	9	5
E9	2	11	4
E10			
E11	2	12	5
E12	2	8	4
E13	2	13	5
E14	2	8	5
E15	2	6	4
E16*	2	10	2
E17	2	10	5
E18	N/A	N/A	N/A
E19	2	8	5
E20			
E21	2.5	8	5
E22*	1	8	3
E23*	N/A	N/A	N/A
E24	2	11	5
Control group			
Person	In your opinion how well do you understand English language?	How many years you have studied English at school?	Before starting this experiment how much did you know about information shown during this experiment about Malta?
C1	1	8	5
C2	N/A	N/A	N/A
C3	5	A bit	5
C4	3	8	5
C5	N/A	N/A	N/A
C6	2	Possibly 9	5
C7	2	12	5
C8	2	9	4
C9	2	8	5
C10	2	13	4
One of persons C2/C5 has provided following information: 3, 9, 5			