DEVELOPING APPROPRIATE ENGLISH SPEAKING LEARNING MATERIALS FOR ENGLISH TUTORIAL PROGRAM FOR THE STUDENTS OF INTERNATIONAL MATHEMATICS EDUCATION STUDY PROGRAM OF YOGYAKARTA STATE UNIVERSITY

A Thesis

Presented as Partial Fulfillment of the Requirement for the Attainment of *Sarjana Pendidikan* Degree in English Language Education



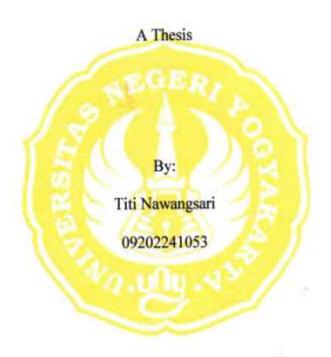
by:

Titi Nawangsari 09202241053

ENGLISH EDUCATION DEPARTMENT LANGUAGES AND ARTS FACULTY YOGYAKARTA STATE UNIVERSITY 2014

APPROVAL

DEVELOPING APPROPRIATE ENGLISH SPEAKING LEARNING MATERIALS FOR ENGLISH TUTORIAL PROGRAM FOR THE STUDENTS OF INTERNATIONAL MATHEMATICS EDUCATION STUDY PROGRAM OF YOGYAKARTA STATE UNIVERSITY



Approved on July 13th, 2014 by:

First Supervisor

Drs. Joko Priyana, M.A., Ph.D. NIP. 19650122 199001 1 001 Siti Sudartini, S.Pd., M.A. NIP. 19760311 200501 2 001

Second Supervisor

RATIFICATION

DEVELOPING APPROPRIATE ENGLISH SPEAKING LEARNING MATERIALS FOR ENGLISH TUTORIAL PROGRAM FOR THE STUDENTS OF INTERNATIONAL MATHEMATICS EDUCATION STUDY PROGRAM OF YOGYAKARTA STATE UNIVERSITY

A Thesis

Accepted by the Board of Examiners of the English Education Department, Faculty of Languages and Arts, State University of Yogyakarta on July 18th, 2014 and declared to have fulfilled the requirement to attain A Sarjana Pendidikan Degree in English Language Education.

Board of Examiners

Position Name Signature Date

Chairperson Dr. Agus Widyantoro, M.Pd. July 18th, 2014

Secretary Siti Sudartini, S.Pd.,M.A. July 18th, 2014

First Examiner Dr. Margana, M.Hum., M.A. July 18th, 2014

Second Examiner Drs. Joko Priyana, M.A., Ph.D. July 18th, 2014

Yogyakarta, July18th, 2014

Faculty of Languages and Arts

State University of Yogyakarta

Dean,

Prof. Dr. Zamzani, M.Pd.

NIP. 19550505 198011 1 001

PERNYATAAN

Yang bertanda tangan di bawah ini, saya

Nama

: Titi Nawangsari

NIM

: 09202241053

Jurusan

: Pendidikan Bahasa Inggris

Fakultas

: Bahasa dan Seni Universitas Negeri Yogyakarta

menyatakan bahwa karya ilmiah ini adalah hasil pekerjaan saya sendiri. Sepanjang pengetahuan saya, karya ini tidak berisi materi yang ditulis oleh orang lain kecuali bagian tertentu yang saya ambil sebagai acuan dengan mengikuti tata cara dan etika penulisan karya ilmiah yang lazim.

Apabila ternyata terbukti bahwa pernyataan ini tidak benar, sepenuhnya menjadi tanngung jawab saya.

Yogyakarta, 12 Juli 2014

Penulis

Titi Nawangsari

MOTTOS

So remember Me, I will remember you.

And be grateful to Me and do not deny Me.

(QS Al-Baqarah: 152)

So, verily, with every difficulty, there is a relief.

(QS Al-Insyirah: 5)

DEDICATIONS

This thesis is dedicated to:

my beloved mom

my beloved little sister

my father

ACKNOWLEDGMENTS

Alhamdulillahirabbil'alamin. Praises be to Allah, the most Gracious and Merciful, Who has given me His remarkable blessing and mercy so that I could finish this thesis. And may peace and blessing of Allah be upon Muhammad SAW, his family, friends and companions.

I would like to use this opportunity, to offer my thanks to all those who have helped and supported me during the process of writing this thesis.

My best gratitude goes to my first supervisor *Bapak* Jaka Priyana, Ph.D for his valuable suggestions, advice and insight in guiding and supporting me during the process of writing this thesis. I would like to express my sincere gratitude to my second supervisor *Ibu* Siti Sudartini, M.A. for her patience, loving guidance and suggestions in correcting my thesis.

I would also like to convey my gratitude to *Ibu* Ella Wulandari, M.A who has sincerely given me her valuable advice and suggestions during the process of expert judgment.

I would like to express my great appreciation to my beloved mother for her endless love, support and prayers. No words could possibly explain how grateful I am, having a wonderful mother like you.

My special thanks go to my close friends, Annisa Sendikia. S, Nur Mei H, Seli Rosriana, who always successfully burst me into laughter. Thank you for the support, help and thoughtfulness during all this time. And I also want to thanks to my friends in "Kos Ceria" and "PBI C 2009" for all the laughter and togetherness.

Finally, I hope that this thesis will give some contributions to the readers. However, I realize that this thesis is far from being perfect. Therefore, any suggestions, ideas and criticisms for the improvement of this thesis are highly appreciated.

Yogyakarta, July 2014

Titi Nawangsari

LIST OF APPENDICES

Appendix A. The Needs Analysis Questionnaire

Appendix B. The Needs Analysis Data

Appendix C. The Course Grids

Appendix D. The First Draft of the Materials

Appendix E. The Description of the First Draft of the Materials

Appendix F. The Expert Judgment Questionnaire

Appendix G. The Final Draft of the Materials

LIST OF TABLES

- Table 2.1 Classification of Tasks
- Table 3.1 The Organization of Needs Analysis Questionnaire
- Table. 3.2 The Organization of Expert Judgment Questionnaire
- Table 3.3 Data Conversion Table
- Table 4.1 Data of Respondents of the Needs Analysis
- Table 4.2 Necessities of the Students for Now
- Table 4.3 Necessities of the Students in the Future
- Table 4.4 Language Functions
- Table 4.5 Important Elements in Speaking
- Table 4.6 The Students' Level of Proficiency
- Table 4.7 The Students' Difficulties in Communicating in English
- Table 4.8 The Students' Vocabulary Mastery
- Table 4.9 The Students' Wants in Learning Process
- Table 4.10 The Goal of the Students
- Table 4.11 Topics of the Materials
- Table 4.12 Types of Input
- Table 4.13 Input Length
- Table 4.14 Learning Procedure
- Table 4.15 Learning Vocabulary Procedure
- Table 4.16 Learning Grammar Procedure
- Table 4.17 Learning Pronunciation Procedure
- Table 4.18 Setting
- Table 4.19 Learners' Role
- Table 4.20 Teachers' Role
- Table 4.21 The Outline of the Unit Design
- Table 4.22 The Appropriateness of the Content of Unit 1
- Table 4.23 The Appropriateness of the Language of Unit 1
- Table 4.24 The Appropriateness of the Presentation of Unit 1

- Table 4.25 The Appropriateness of the Layout of Unit 1
- Table 4.26 The Revisions of Unit 1
- Table 4.27 The Appropriateness of the Content of Unit 2
- Table 4.28 The Appropriateness of the Language of Unit 2
- Table 4.29 The Appropriateness of the Presentation of Unit 2
- Table 4.30 The Appropriateness of the Layout of Unit 2
- Table 4.31 The Revisions of Unit 2
- Table 4.32 The Appropriateness of the Content of Unit 3
- Table 4.33 The Appropriateness of the Language of Unit 3
- Table 4.34 The Appropriateness of the Presentation of Unit 3
- Table 4.35 The Appropriateness of the Layout of Unit 3
- Table 4.36 The Revisions of Unit 3

LIST OF FIGURES

Figure 2.1 Task Components

Figure 4.1 The Unit Design of the Materials

TABLE OF CONTENTS

TITLEi
APPROVAL ii
RATIFICATIONiii
PERNYATAANiv
MOTTOSv
DEDICATIONS
ACKNOWLEDGMENTSvii
LIST OF APPENDICESvii
LIST OF TABLES ix
LIST OF FIGURES xi
TABLE OF CONTENTSxii
ABSTRACTxii
CHAPTER I INTRODUCTION
A. Background of the Study
B. Identification of the Problems
C. Limitation of the Problems
D. Formulation of the Problems
E. Objectives of the Study9
F. Significances of the Study
CHAPTER II LITERATURE REVIEW AND CONCEPTUAL FRAMEWORK
A. LITERATURE REVIEW11

1.	Theories of Speaking				
	a.	The Nature of Speaking			
	b.	Micro and Macro Skills of Speaking			
	c.	Basic Types of Speaking Performance			
	d.	Classroom Speaking Activities			
	e.	Assessing Speaking			
	f.	Fluency and Accuracy in Speaking			
2.	glish for Specific Purposes				
	a.	Definition			
	b.	Needs Analysis			
3.	3. Content-Based Instructions				
	a.	Definition and Principles of CBI			
	b.	Theory of Language			
	c.	Theory of Learning			
	d.	Design of CBI			
4.	Le	arning Materials			
	a.	Definition and Criteria of Good Learning Materials 33			
	b.	Materials for English Tutorial Program			
5.	Ma	nterials Development			
	a.	Definition and Principles			
	b.	Model of Materials Development			
6.	Un	nit Design Development			
	a.	Principles of Unit Design			

	b	. Model of Unit Design	. 41
	c	. Task Grading and Sequencing	. 42
	d	l. Task Continuity	45
	e	. Within Task Sequencing	45
	7. T	Fask Design Development	46
	a	. Task Definition	46
	b	o. Task Components	47
	c	. Task Types	53
	8. N	Materials Evaluation	55
B.	CON	CEPTUAL FRAMEWORK	56
СНАР	TER I	II RESEARCH METHOD	
A.	Resea	arch Design	59
B.	Resea	arch Setting	59
C.	Resea	arch Subjects	60
D.	Resea	arch Procedure	60
E.	Data	Collection Techniques and Instruments	61
F.	Data	Analysis Technique	64
СНАР	TER V	VI RESEARCH FINDINGS AND DISCUSSION	
A.	Resea	arch Findings	67
	1. T	he Description of the Needs	67
	2. T	he Course Grid	80
	3. T	he Unit Design	80
	1 T	ha First Droft of the Motorials	82

	5. The Expert Judgment.	83
	6. The Final Draft of the Materials.	99
B.	Discussions.	100
СНАР	TER V CONCLUSIONS AND SUGGESTIONS	
A.	Conclusions.	107
B.	Suggestion	111
REFE	RENCES	114
APPE	NDICES	117

DEVELOPING APPROPRIATE ENGLISH SPEAKING LEARNING MATERIALS FOR ENGLISH TUTORIAL PROGRAM FOR THE STUDENTS OF INTERNATIONAL MATHEMATICS EDUCATION STUDY PROGRAM OF YOGYAKARTA STATE UNIVERSITY

By Titi Nawangsari 092022410053

Abstract

The objectives of this research were 1) to identify the target needs and learning needs of the students of International Mathematics Education Study Program of Yogyakarta State University 2) to develop appropriate English speaking learning materials for the students of International Mathematics Education Study Program of Yogyakarta State University for academic purposes.

This research was Research and Development (R&D) study. The research procedure followed the research design proposed by Gall, Gall, and Borg (2003) with some modifications. The steps were (1) collecting data and information, (2) writing course grids/syllabus, (3) developing the first draft of the materials, (4) evaluating the first draft of the materials, (5) revising the first draft and writing the finals draft, and (6) making conclusions and recommendations. There were two questionnaires employed in this research: (1) needs analysis questionnaire and (2) materials evaluation questionnaire. The needs analysis questionnaire was distributed to the students to find out the students target needs and learning needs. The materials evaluation questionnaire was distributed to the materials expert to evaluate the materials whether the developed materials were appropriate or not to be used as speaking learning materials for the students. The questionnaire was adapted from "Instrumen Penilaian Buku Teks Pelajaran Bahasa Inggris" from BSNP (2007). The questionnaire covered four aspects, namely the appropriateness of the content, the language, the presentation and the lay out. The data obtained from the needs analysis questionnaire were analyzed using frequency and percentage and the results were then used as the basis to develop the course grids, while the data from evaluation questionnaire were analyzed using descriptive statistics.

This research developed three units of materials. Each unit is made up of introduction, main lesson and reinforcement tasks ranging from 15-16 tasks. The tasks focus on improving the students' speaking ability. The input is in the form of monologues, dialogues, pictures, explanations and vocabulary list. The types of the tasks are mostly listening to recording, answering WH questions, completing dialogue using provided words or the students' words, acting out dialogue, creating dialogue and game. The students were encouraged to do the tasks in pairs and small group. Based on the findings from materials evaluation, the content, the language, the presentation and the layout of the developed materials are appropriate. The mean score of all aspects of the developed materials is 3.65 which is categorized as "Good".

CHAPTER I

INTRODUCTION

This chapter presents background of the study, identification of the problems, limitation of the problems, formulation of the problem, objectives of the study, and the significance of the study.

A. Background of the Study

Yogyakarta state university is one of the universities in Indonesia which has goals to create educational personnel and develop education and teaching knowledge instead of creating non-academic professionals. Since 2007, Yogyakarta State University (YSU) has a new vision in which the vision becomes more noticeable right now, which is to be world-class university. According to Marsigit (2009:1), there are two underlying reasons which lie beneath the vision of becoming world-class university. First is that, as a state university, Yogyakarta State University has obligation to follow the government's policy to develop International-Standard Schools. Hence, to support the government's plan, YSU needs to take steps to be world-class university. Second is that the demand of the university ranking among universities in the national area or global area.

To be a world-class university means to have a better quality of education. According to Levin (2006:2), to be WCU means to be (1) excellence in education of their students, (2) research, development and dissemination of knowledge and (3) activities contributing to the cultural, scientific and civic life if society. In

order to achieve the aim to be world-class university, YSU established TASK Force in 2007 in order to develop and implement projects to be world-class university.

One of the projects to be WCU is having International Study Programs. Right now, YSU has six international study programs which are Mathematics Education, Chemistry Education, Physic Education, Biology Education, Science Education and Accounting Education. Marsigit, (2009:1) states that those international study programs apply international standard curriculum, international standard teaching and learning process, international standard learning assessment, international standard references, international standard lecturers and so on.

In accordance with the facts mentioned before, the demand of the use of English for the students of International Study Program is higher than those who do not include in the International Study Program. The students of International Study Program are required to have good ability both of productive and receptive skills of English in order to meet the requirements as the students of the International Study Program.

Based on the result of the interview with some of the students from International Mathematics Education Study Program, the students are required to be able to use English both productive and receptive skills because the process of the teaching and learning inside the classroom is done by using bilingual language, English and Indonesian. And as an International Study Program, English is used as a dominance instructional medium in the process of teaching

and learning. They add that the handbooks or references are in English, most of the tasks and homework given by the lecturers are English as well, so that they need to perform them in English. Therefore, in order to carry out the activities in the process of teaching and learning effectively and efficiently, the students need to be fluent in English especially in productive skills (oral communication).

However, in reality, the students of International Mathematics Education Study Program, find it difficult in carrying out the activities in the process of teaching and learning because of the language barriers. Based on the results of interview with them, they were able to understand the instructions and explanations from the lecturers during the lectures and they could understand the content of the handbooks or references but they found it difficult to understand native speakers who spoke in English and to deliver information or opinions in oral communication in English. From seven interviewees, only two interviewees who could speak English fluently without stopping many times and trying to find out the words that they were going to say. And the rest of the interviewees barely spoke in English. They took longer time to answer every question. They often stopped when they spoke and used Indonesian because they could not find the English words that they were going to say. Moreover, only few of them could speak in English accurately. Many of them tended to make mistakes in grammar.

In accordance with the condition mentioned before, it can be concluded that the students of International Mathematics Education Study Program, are far from being called as fluent English speakers. Though, oral communication is very important for them as they are the students of International Study Program who

are required to be able to do oral communication fluently in English in order to be effective and efficient during the learning process and later on when they graduate from the university.

Independent Language Learning Center (ILLC), the subdivision of Center of Language Development (*Pusat Pengembangan Bahasa*) of Yogyakarta State University, in order to facilitate and help students of International Study Program to learn speaking of English, carries out a pilot English tutorial program called English Speaking Club (ESC). This program aims to help students of the International Study Program to improve their speaking skill and also listening skill in term of their academic and daily life contexts. Therefore, in the application, the program needs appropriate materials for the participants in order to achieve the aims.

In order to be able to improve their English proficiency level especially in the oral communication, the students of International Mathematics Education Study Program need appropriate materials which suit their needs as the students of International Mathematics Education Study Program. The materials should cover the topics that they need in those two contexts. Moreover, the materials should be appropriate with their proficiency level, so that their learning will be effective and meaningful for them in improving their ability in oral communication. Hence, the aim of this research is to develop appropriate English learning materials for the students of International Mathematics Education Study Program.

B. Identification of the Problems

The English tutorial program, as a new program founded by the Center of Language Development, aims to facilitate the English learning of International Study Program students in terms of speaking. In order to achieve the goal, some aspects should be taken into consideration, including choosing appropriate materials to assist the students' learning in the program.

Materials for the English tutorial program that should be available are course book, workbook, module, handout, multimedia materials and so on. According to Tomlinson (1998:ix), coursebook is a textbook which contains the core materials for the learners in a course including work on grammar, vocabulary, pronunciation, function and the skills of reading, writing, listening and speaking. Workbook is different from coursebook, Workbook contains extra practice activities to work on their own time. It usually provides answer key in the book with the intention of giving feedback to the learners. Multimedia materials can be in the form of CD-Rom. It usually contains video, audio, graphics and soon. Handout can be defined as a document given to students that contains information about a particular subject. Module is a book containing a number of units in which the units are derived from compilation of chapter of books or other resources. Each unit of module contains theories of a particular topic of particular subjects and exercises related to the theories.

Materials that are available for the program are coursebooks. They are created by the tutors who are English Department students. The number of the coursebooks is as many as the number of the International Study Programs. The

coursebook used for the students of International Mathematics Education Study Program consists of eleven units. The units are divided into two contexts which are daily life context and academic context. The first six units are included to daily life context while the rest of the units are included to academics context. The choices of the topics in every unit of the coursebook are around those two contexts and the major of the participants. Furthermore, each unit is enriched with multimedia materials whether they are videos or audios or videos and audios.

However, some weaknesses are found in the coursebook. Based on one of the lecturers who has reviewed the coursebook, the coursebook is not written scientifically. It is because in the process of writing the coursebook, the writers did not apply a certain approach though the activities in the coursebook were graded. A course needs an approach in order to maximize the aims of the course and the process of learning. Approach determines the order of what are learned by the students and the procedures written on the syllabus. Finally, syllabus will be used as a base in developing a coursebook.

Another weakness is that it is not clearly determined the level of difficulty of the coursebook, whether it is intended to be used by beginner, intermediate or advance level of the students. Based on the result of the interview with the students from Mathematic Education, their proficiency levels vary. They can be categorized in three groups which are beginner level, pre-intermediate and intermediate level group. The pre-intermediate level students take as the majority in group. Hence, they need the materials which suit their proficiency level.

Input is one of important elements in the task. Input should provide exposure which is relevant to the topic of the materials. The coursebook has some listening inputs which discuss topics beyond the topic of the materials, though the inputs contain language functions needed by the students. Furthermore, the coursebook do not provide evaluation task in each of the units. Evaluation task is needed in order to check the students' understanding after learning and carrying out the tasks in the unit.

According to one of the tutors of the speaking club, it is planned to have games in the process of teaching and learning, but the coursebook, especially the one that is intended to be used for the students of Mathematics education, has not provided games yet in order to support the activities during the process of teaching and learning. Because of that, the tutors will use supplementary materials to realize the plan of having games in the activities.

Although, there are countless commercial coursebooks, it seems that they are not meeting satisfactory to be used as the materials for English tutorial program. The topics and the language skills needed by the participants are specific. They are based on the participants' needs which are related to their majors. Although the language skills that they need can be provided by using the commercial books, the topics needed by the participants are hardly covered by one or two commercial course books.

From the elaboration above, it can be concluded that appropriate materials are needed in to assist the students' learning in the process teaching and learning effectively in order to improve their speaking ability. The materials should be

relevant to on the students' major, the students' proficiency levels and the context needed by the students.

C. Limitation of the Problems

The participants of the English utorials program need materials that can help them in improving speaking or oral communication in term of daily life context and academic context. Due to the limitation of the time, this research will focus developing appropriate English speaking learning materials for the intermediate level of students of International Mathematics Education Study Program in the academic context.

D. Formulation of the Problems

The problems of this study are formulated as follows:

- 1. What are the target needs of the students of International Mathematics Education Study Program who join English tutorial program?
- 2. What are the learning needs of the students of International Mathematics Education Study Program who join English tutorial program?
- 3. What are the appropriate English speaking learning materials for the intermediate level of students of International Mathematics Education Study Program?

E. Objectives of the Study

This study is aimed at:

- Identifying the target needs of the students of International Mathematics Education Study Program.
- Identifying the learning needs of the students of International Mathematics
 Education Study Program.
- Developing appropriate English speaking learning materials for the intermediate level of students of International Mathematics Education Study Program.

F. Significance of the Study

This study gives significances to some parties. The significance of this study is stated as the following:

1. To the English department

This study gives contribution in providing more resources and information for the Research and Development study.

2. To other researchers

This study gives them input and resources that facilitate them to do the same research in difference places.

3. To English instructors

The results of this study assist them to facilitate the students' learning and in providing appropriate materials for the students so that the teaching learning can take place effectively.

4. To materials designers

This study gives some valuable information in designing the same materials and gives them overview to create better materials later on.

5. To the students who join the English tutorial program.

The result of this study facilitates their learning and can be useful for improving their speaking ability.

CHAPTER II LITERATURE REVIEW AND CONCEPTUAL FRAMEWORK

This chapter contains the underlying theories as the basis of conducting this research, and conceptual framework. Concepts related to this research are elaborated in order to support the implementation of this research. Those theoretical concepts will be formulated into conceptual framework that will describe the whole frame in doing this research.

A. Review of related Literature

1. The Theories of Speaking

a. The Nature of Speaking

Brown (2004:40) gives a definition of speaking as productive skill which can be observed both directly or empirically in which the observations are influenced by the accuracy and effectiveness of the students' listening skills which compromises the reliability and validity of an oral production test.

According Nunan (1989:32), in order to have successful oral communication, the speaker should develop:

the ability to articulate features of the language comprehensibly; mastery of stress, rhythm, intonation patterns; an acceptable degree of fluency; transactional and interpersonal skills; skills in taking short and long speaking turns; skills in the management of interaction; skills in negotiating meaning; conversational listening skills (successful conversations require good listeners as well as good speakers); skills in

knowing about and negotiating purpose for conversations, using appropriate conversational formulate and fillers.

Referring to the Nunan's statement above, it is clearly stated that in order to have good oral communication speakers should have such ability. Those abilities can be divided into two which are called as macro and micro skills of speaking

There are two basic functions of language than can be classified in most oral communication. The first is transactional language which is aimed for transferring information and interactional language that is intended to maintain social relationship (Nunan, 1989:27). Another issue drawn in speaking is the distinction between monologue and dialogue. Both of monologue and dialog require different skill to be able to do those activities.

In doing oral communication, the speakers deal with spoken language. Spoken language has different characteristics form written language. Brown and Yule (1983) on Nunan (1989:26) show some characteristics of spoken language which are:

- spoken language consists of short or often fragmentary utterances in range of pronunciation,
- the speakers often do repetition and overlap each other and the use of nonspecific references frequently appeared,
- less conceptually dense because it consists of loosely organized syntax, the use of non-specific words and phrases and the use of fillers.

In conclusion, speaking is a productive that can be observed directly and empirically and the observation is influenced by the accuracy and fluency of the students' listening skill. In order to be able to do oral communication, the speaker should develop macro and micro skills of speaking. In oral communication, the speaker may use language to do interactional or transactional communication. Moreover, the characteristics of language used in the oral communication is different from those used in the written communication.

b. Micro and Macro skills of Speaking

As it has mentioned that in order to have good oral communication, speakers need to develop macro and micro skills in speaking. Brown (2004:142) gives a detail explanation of them. Below are micro and macro skills of speaking listed by Brown:

Micro skills of speaking

- 1) Produce differences among English phonemes and allophonic variants.
- 2) Produce chunks of language of different lengths.
- 3) Produce English stress patterns, words in stresses and unstressed positions, rhythmic structure and intonation contours.
- 4) Produce reduced forms of words and phrases.
- 5) Use an adequate number of lexical units (words) to accomplish pragmatic purposes.
- 6) Produce fluent speech at different rates of delivery.
- 7) Monitor one's own oral production and use various strategic devices (pauses, filter, self-corrections, backtracking) to enhance the clarity of the message.

- 8) Use grammatical word classes (noun, verb, etc) systems (tense, agreement, pluralization), word order, patterns, rules, and elliptical forms.
- Produce speech in natural constituents: in appropriate phrases, pause groups,
 breath groups, and sentence constituents.
- 10) Express a particular meaning in different grammatical forms.
- 11) Use cohesive devices in spoken discourse.

Macro skills of speaking

- Appropriately accomplish communicative functions according to situations, participants and goals.
- 2) Use appropriate styles, registers, implicature, redundancies, pragmatic, conventions, conversation rules, floor-keeping and –yielding, interrupting, and other sociolinguistic features in face-to-face conversations.
- 3) Convey link and connections between events and communicative such relations as focal and peripheral ideas, events and feelings, new information and given information, generalization and exemplification.
- 4) Convey facial features, kinesics, body language, and other nonverbal cues along with verbal language.
- 5) Develop and use a battery of speaking strategies such as emphasizing key words, rephrasing, providing a context for interpreting the meaning of words, appealing for the help, and accurately assessing how well your interlocutor is understanding you.

In conclusion, micro skill of speaking is related to the ability of the speaker to produce language, while macro skill of speaking is related to the ability of the speaker in using context and other things surround the speakers which can support the speakers to have good oral communication. Those two abilities are drawn when the speakers perform oral communication.

c. Basic Types of Speaking Performance.

Speaking has several types of performance. Brown (2004: 141) divides speaking performance into five types as follows:

1) Imitative.

The speaker simply imitative a word, phrase, or possibly sentence. This type of speaking concerns on pronunciation.

2) Intensive.

Producing short stretches of oral language designed to demonstrate competence in a narrow band of grammatical, phrasal, lexical or phonological relationship, for example completing sentence or dialog.

3) Responsive.

Having interaction through limited level of very short conversations, standard greetings and small talk, simple request and comments and soon.

4) Interactive.

Responsive and interactive speaking are nearly the same. The difference is on the length and complexity of interaction which sometimes exchanges or multiple participants.

- 5) Extensive.
- 6) Extensive oral production tasks include speeches, oral presentations and storytelling

From each explanation above, it can be concluded that those speaking performances require the speaker to have micro skills of speaking because the performances are classified based on the length of language that should be produced by the speakers. Brown (2004: 120) adds that those performances compromise a category for procedure and assessment tasks.

d. Classroom Speaking Activities

Harmer (2001:271) mentions examples of speaking activities. The activities can be described as follows.

1) Acting from a script

Students are asked to perform scenes form plays, or their coursebooks, or the dialogue they have written themselves in front of the class.

2) Communication games

There are many types of games with their own purposes to provoke communication. However, the most widely-used game in speaking is information gap in which one students has to talk to a partners to solve a puzzle and soon.

3) Discussion

Discussion activity involves exchanging thought and ideas to other in order to reach a decision or a consensus, whether it is in group or whole class.

4) Prepared talk

Students make presentation on a topic of their own choice.

5) Questionnaires

Students can design questionnaire using any topic that is appropriate. Questionnaire is useful because questioner and respondent have something to say each other.

6) Simulation and role-play

Students take a role of a character which different from themselves.

In conclusion, each of activity presented above has their own communicative purpose. Each of the activity requires students to do different activity which match to the communicative purpose that need to encounter.

There are two terms that cannot be separated from speaking. They are accuracy and fluency. The two terms influence the accuracy of the language produced by the speaker and the flow of the communication.

e. Assessing Speaking

Louma (2004:4) mentions that there are several stages in assessing speaking. Each of the stages requires people to act and interact to decide what needs to do in the next stages. Below is the cycle of speaking assessment by Louma (2004):

- The realization to measure speaking ability of the students in order to measure the students' speaking ability.
- 2) Planning and developing stage. In this stage, the test developer decides what needs to be assessed, create the criteria of assessment, the assessment tasks and instruction to guide activities. According to Brown (2004:140), the criteria of the assessment consist of a number of elements such as pronunciation, fluency, vocabulary use, grammar, comprehensibility and soon).
- 3) Administration of the test. In this stage, there is an interaction between examinees, interlocutor and tasks. The examinees perform the assessment task with the interlocutors.
- 4) Evaluation. In this stage, the raters evaluate the performances with criteria which have been determined.
- 5) Score use. In this stage, scores are produced from the evaluation.

In assessing speaking there are two terms which are worth to be considered which are validity and reliability. The test developers should make sure that the assessment is valid and reliable. Validity relates to the right thing to be assessed, while reliability means ensuring that the test gives consistent and dependable results.

f. Fluency and Accuracy in Speaking

Fluency and accuracy are two terms that learners and teachers usually struggle to develop in speaking. Fluency is related to the flow of the speech. As stated by Chamber (1997) on Jong and Perfetti (2011: 534) that fluency refers to the flow and smoothness of the delivery. Speaking fluently means being able to deliver your ideas without thinking too much what you are saying. In the other hand, accuracy is related to the correctness of grammar and vocabulary in speaking. As pointed by Pollard (2008) that accuracy refers to correct use of language. Accuracy is not aimed to communicate ideas but it aims to produce correct language.

According to Nation (2009:152) fluency can be measured by speed of access or production and by the number of hesitations, while accuracy can be measured by the amount of errors. In more detail, fluency can be measured by looking at the speed and flow of language production, the degree of control items and the way language and content interact (Nation, 1989:377).

Though accuracy and fluency can be measured from different aspects, Nation (2009:152) says that to maintain the distinction of both accuracy and fluency is difficult. Nation (1989a) and Arevart and Nation (1991) on Nation (2009) found that an activity that was designed to increase fluency also resulted in the increase of accuracy. The increase of accuracy was indicated by a reduction of errors and increase in grammatical complexity.

There are some conditions that should be met in developing fluency. According to Nation (2009) those conditions can be described as follow: 1) The activity is meaning-focused. It means that the communication of message becomes the learner's interest. 2) The learners take part in activities where all language items are within their previous experience. This means that learners are involved in the activity in which the required knowledge to do the activity is within the learners experience. The learners work on familiar topics and types of discourse in which the vocabulary and the structures are known by the learners. 3) There is support and encouragement for the learners to perform at a higher than normal level. Instead of those conditions, the learners should have plenty of opportunity inside and outside the classroom to take part in the meaning-focused experience tasks in order to develop their fluency in speaking.

The typical tasks or activities for improving accuracy in speaking, based on Pollard (2008:16), include repetition, drills, and controlled conversations. In the activities which focus on accuracy, teachers usually deal with error correction immediately.

Instead of theory of speaking, in order to develop appropriate materials for the participants of the English Speaking Club, it needs other theories to support the process of writing the materials. Since English Speaking Club is under the issue of English for Specific Purposes (ESP), theories related to it are needed. The key component of ESP is needs analysis. In order to develop appropriate learning materials of the course, needs analysis needs to be conducted. The theories related to them will be elaborated in the following.

2. English for Specific Purposes

English as a foreign language has two branches which are General English (GE) and English for Specific Purposes (ESP). GE is applied on primary school, secondary school and adult tertiary. General English, according to Hutchinson and Waters (1987), is usually studied for exam purposes. In the other hand, ESP is applied on vocational schools and many of language courses in which the needs of the students are specific and different from that of those who are in General English.

a. Definition

According to Hutchinson and Waters (1987: 19), ESP is not a product but it is an approach. They add that ESP is an approach to language teaching which is based on learners' needs. The determination of content and method in ESP are based on students' reasons for learning. Basturkmen (2010:3) states a similar idea about ESP that the focus of ESP courses is narrower than that of ELT courses because ESP courses concern on analysis of learners' need. Meanwhile, Swale (1992) in Knight et al (2010:34) elaborates the definition as follows:

.....the area of inquiry and practice in the development of language programs for people who need a language to meet a predictable range of communicative needs.

From the definitions given by those experts, it shows that ESP provides framework on designing language course where the course is designed to meet the students' needs.

ESP approach has some characteristics. According to Dudley-Evans and St. John (1984) as cited by Brunton (2009:2), ESP has absolute and variable characteristics.

Absolute characteristics

- ESP is defined to meet specific need of the learners.
- ESP makes use of underlying methodology and activities of the discipline it serves
- ESP is centered on the language appropriate to these activities in term of grammar, register, study skills, discourse and genre.

Variable characteristics

- ESP may be related to or designed for specific disciplines
- ESP may use, in specific teaching situations, a different methodology form that of General English.
- ESP is likely to be designed for adult learners, either at a tertiary level institution or in a professional work situation. It could, however, be for learners at secondary schools level.
- ESP is generally designed for intermediate or advanced students
- Most ESP courses assume some basic knowledge of the language systems.

As the first consideration before designing a course is how to find out the needs of the students. In order to figure out their needs, course designers need to

do needs analysis. ESP provides guidance to what kinds of need that should be assessed.

b. Needs Analysis

As stated in the definition of ESP that ESP is an approach based on students' needs, needs analysis is worth to be conducted in order to gather information of students' needs. Graves (2000:98) defines needs analysis as a systematic and ongoing process of gathering information about the needs and preferences of students. The results of needs analysis will be used as a base on determining the content and method in ESP courses so that those can be met the students' needs.

Hutchinson and Waters (1987:54) categorize needs into two types which are target needs and learning needs. Target needs concern with what the learners need to do in the target situation, while learning needs concern with what the learners need to do in order to learn.

1) Target Needs

It is said that target needs is an umbrella term which contain a number of important points such as necessities, lacks and wants (Hutchinson and Waters, 1987). Below are the explanations of those three points.

a) Necessities

It is the type of needs which contains of what the learner has to know in order to function effectively in the target situation. Nation and Macalister (2010: 24) say

that necessity is something which is necessary for the students' use of language. Hutchinson and Waters (1987) give an example in term of necessities that a businessman may need to understand business letter, communicate at sales conferences and soon. Necessities of one student may different from other students. The example shows that language use needed by student or person is very specific and should be necessary for him doing his field.

In figuring out necessities, Hutchinson and Waters also state that:

"It is the matter of observing what situations the learner will need to function in and then analysing the constituent parts of them"

The statement implies that necessity is type of needs which covers language use needed by the students and the situation needed by the students to use the language.

b) Lacks

According to Nation and Macalister (2010), lacks related to the question of "What do the learners lack?". Identifying lacks has a function to find the gap in term of students' knowledge between their current knowledge or what learners know already and what learners do not know yet. Hutchinson and Waters state (1987: 56) that by knowing what students already know can help to decide which of the necessities that the learners lack.

c) Wants

Wants refer to what the learners wish to learn (Nation and Macalister, 2010). Wants are based on the students' perception of what will be useful for them in

their learning. It is said in Hutchinson and Waters (1987:56) that learners may have clear idea of the necessities of the target situations. In conclusion, wants is the necessity which is derived from the students' point of view in the learning.

2) Learning Needs

Both target needs and learning needs should be taken into consideration in doing needs analysis. Target needs will provide information of what learners do with language while learning needs will give information of what learners learn to do what they do with language (Hutchinson and Waters, 1987).

In conclusion, needs analysis is done in order to find out the target needs and learning needs of the students. This research will use needs analysis from ESP as the preliminary step in developing materials.

3. Content-Based Instructions

a. Definition and Principles of CBI

According to Richard (2001:204), Content-Based Instruction refers to an approach in which the organization of teaching is emphasized on the content or information that will be acquired by the students rather than linguistic or other types of syllabus. It is supported by Brinton, Snow and Wesche (1989) in Brown (2001:49) who state that CBI is an approach that integrates content learning with aims of language. In the application of CBI, language is not seen as subject, however language is used as a medium instruction. Brown (2001:49) states that the use of language as a medium of instruction builds the intrinsic motivation of

the students because the language is used to deliver informational content and relevance to the learners.

Every approach has its own principles. Brinton (2003) in Nunan (2004: 132) points out five principles for CBI. The principles are summarized by Nunan into the following:

- Base instructional decisions on content rather than language criteria.
- Integrate skills (integrated skills approach is used by the CBI practitioners to language teaching covering all four language skills as well as grammar and vocabulary.
- Involve students actively in all phases of the learning process (in CBI classroom, the students do not depend on teacher, they learn through doing and are actively engaged in the learning process)
- Choose content for its relevance to students' lives, interests and/or academic goals (the content on CBI courses is chosen based on the students and the instructional settings).
- Select authentic texts and tasks (CBI uses authentic tasks and materials).

b. Theory of Language

The assumptions of the nature of language underlie Content Based Instruction (Richards and Rodgers, 2001). Those assumptions include:

- Language is text- and discourse- based

The role of language in CBI is as a vehicle for learning content. This means that the centrality of linguistic is not only single sentences but it is

longer than them because the teaching is focused on how meaning and information are communicated and constructed through text and discourse. The linguistics units include of how longer stretches of language are used and the linguistics features that create coherence and cohesion within speech events and text types. It involves the study of the textual and discourse structure written texts such as letters, reports, essays, descriptions, book chapters, or of speech events such as meetings, lectures and discussions.

- Language use draws on integrated skills

In CBI, language use is viewed as involving skills together. The classroom activities involve activities that link the skills because the activities are intended to be similar like real word activities. The activities can be read and take notes, listen and write a summary, or respond orally to the things they have read or written rather that viewing grammar as a separate dimension of language. It is stated that the teacher or course developer is responsible for indentifying relevant grammatical and other linguistic focuses to complement the topic or theme of the activities.

- Language is purposeful

Language is used for specific purposes. The purpose gives direction, shape, and ultimate meaning to discourse and texts. "For learners to receive maximum benefit from CBI they need to be in tune with its purposes and the language codes that signal and link these expressions of purpose".

Some of adjustments and simplification that native speakers make in communicating with second language learners need to be made in order to make content comprehensible to learners. Stryker and Leaver (1993) in Richards and Rodgers (2001) show the examples of these modifications. They include simplification (use the shorter T units and clauses), well-formedness (using few deviation from standard usage), explicitness (speaking with nonreduced pronunciation), regulation (use canonical word order) and redundancy (highlighting important material through simultaneous use of several linguistic mechanisms)

c. Theory of Learning

In CBI model, language is learned through contents. The theory of learning is based on the one of the principles of CBI and one important corollary. The principle is "People learn a second language more successfully when they use the language as a means of acquiring information, rather than as an end itself". The assumption is that successful language learning occurs when students are presented with target language materials in a meaningful, contextualized from with the primary focus on acquiring information (Brinton et al., Wesche, 1989:17 in Richards and Rodgers 2001:209). The important corollary is stated as "People learn second language most successfully when the information they are acquiring is perceived as interesting, useful, and leading into a desired goal". It underlies the assumption which believes that language learning will be more motivating when students are focusing on something other than language, such as ideas, issues, and opinions.

The assumptions can be expressed as:

1) Some content areas are more useful as a basis for language learning than others

Geography is considered as the more effective subject matter to learn language in CBI. It is because geography highly visual, spatial, and contextual. In the practice, it may use maps, charts, and realia and the language tend to be descriptive in nature with use of to be, cognates and proper names.

2) Students learn best when instruction addresses students' needs

The content that will be learned by the students is selected based on their needs. The starting point for developing syllabus is provided by authentic texts (spoken and written) that students will meet in the real word.

3) Teaching builds on the previous experience of the learners

In teaching, the students' knowledge and previous experience are activated through the selected theme and activity.

d. Design of CBI

1) Objectives and Syllabus

Objective of Content-based Instruction is stated as the objective of content course. However, there is an exception for theme-based CBI that language learning objectives drive the selection of theme topics (Richard and Rodgers, 2001). Hence, there are set of linguistics objective on it. The typical syllabus in most CBI courses is drawn on the content area in which the detail and format of

the syllabus are vary. The syllabus on theme-based of CBI is slightly different that the content and instructional sequence on it is decided according to language learning goals.

Brinton (1989:32) in Richards and Rodgers (2001) show some objectives of CBI which are linguistic, strategic and cultural:

- 4) To activate and develop existing English language skills
- To acquire learning skills and strategies that could be applied in future language development opportunities
- To develop general academic skills applicable to university studies in all subject areas
- 7) To broaden students' understanding of English-speaking peoples

2) Types of Learning Activities

Stoller (1997) on Richard and Rodgers (2001:212) presents a list of activities categorized based on their instructional focus. The classification categories are:

- Language skill improvement
- Vocabulary building
- Discourse organization
- Communicative improvement
- Study skills
- And Synthesis of content materials and grammar.

3) Learners' Roles

"CBI is in the learning by doing school pedagogy" (Richard and Rodger, 2001). The statement implies that the learners should play an active role in several dimensions. It said by Stryker and Leaver (1993) in Richard and Rodger (2001) that goal of CBI is to make learners to be autonomous so that they realize their own learning process and take charge of their learning from the very beginning. As the students are expected to be active in the process of teaching and learning in the CBI courses, they are expected to:

- Be active in construing the input
- Have willingness in exploring alternative learning strategies
- Have willingness in seeking multiple interpretations of oral and written texts.

In order to be able to do their expected roles in CBI courses, the students need to be prepared both psychologically and cognitively because some students are reported not ready to accept the changes of the process of teaching and learning from traditional way to the CBI model of learning.

4) Teachers' Roles

It is expected that the role of CBI teachers will be different from the typical role of language teacher. The teachers of CBI courses are not merely good language teacher but they have to be knowledgeable and able to elicit that knowledge from their students (Stryker and Leaver 1993: 292 in Richard, 2001).

Richard and Rodgers (2001: 214) mention the role of CBI courses that in more detailed level, CBI teachers have roles as stated in the following:

- They have to keep context and comprehensibility especially for their planning and presentation.
- They have responsibility to select and adapt authentic materials for use in class.
- They become student needs analysts.
- o They have to create learner-centered classroom.

To play their role effectively and meaningfully for the students, the CBI teachers should have some essential skills. As suggested by Stryker and Leaver, those essential skills are:

- a. Creating variations in the format of classroom instruction
- b. Employing group work and team-building techniques
- c. Organizing jigsaw reading arrangements
- d. Defining the background knowledge and language skills required for students success
- e. Helping students develop coping strategies
- f. Using process approaches to writing
- g. Using appropriate error correction technique
- h. Developing and maintaining high levels of students esteem

5) The Roles of Materials

Language learning will be facilitated if the materials are met the subject matter of the content course. CBI recommended authentic materials to be used to facilitate language learning (Richard and Rodger, 2001). There is a reason which underlies the choice of such materials. The reason is that authentic materials are not originally designed for academic purposes so that they contain rich of varieties. Such materials can be in the form of tourist guidebooks, technical journals, railway timetables, newspaper ads, radio, TV broadcast and soon.

Although authenticity is important, comprehensibility is as important as authenticity. Richard (2001: 215) notes that some modification for the authentic materials may need to do such as simplification of linguistics and adding redundancy to text materials to maximize comprehensibility.

It has been mentioned in the previous explanation about learning materials and the role of learning materials in Content-Based Instruction. The following explanations will explain more about learning materials, such as the definition, the criteria of good learning materials and materials related to English for mathematics.

4. Learning Materials

a. Definition and Criteria of Good Learning Materials

Tomlinson (2012: 145) defines materials for language learning as anything that can be used for facilitating the learning of a language. Those can include

coursebooks, videos, graded readers, flash cards, workbooks, games, websites and so on. He adds that materials can be categorized as:

- informative (give information about the target language to the learners),
- instructional (guide the learners in practicing the language),
- experiential (provide the learners with experience of the language in use),
- eliciting (encourage the learners to use the language)
- explanatory (help the learners to make discoveries of language).

Learning materials will be considered to be good materials, if they meet the criteria of good learning materials. Tomlinson (1998: 7) lists characteristics of good materials for teaching language which are based on the principles of second language acquisition. Those are:

- materials should achieve impact (novelty, variety, attractive presentation and appealing content).
- 2) materials should help the learners to feel at ease
- 3) materials should help the learners to develop confidence.
- 4) what is being taught should be perceived by the learners as relevant and useful
- 5) materials should require and facilitate learner self-investment
- 6) learners must be ready to acquire the point being taught
- 7) materials should expose the learners to the language in authentic use
- 8) the learners' attention should be drawn to linguistics features of the input
- 9) materials should provide the learners with opportunities to use the target language to achieve communication purposes

- 10) materials should take into account that the positive effects of instruction are usually delayed
- 11) materials should take into account that the learners differ in learning styles
- 12) materials should take into account that the learners differ in affective attitudes
- 13) materials should not rely too much on controlled practice
- 14) materials should provide opportunities for outcome feedback

Those criteria are general. They are often applied on most of language learning materials in general English. As the materials for the speaking club are different from general English materials, some criteria need to be specified and should be met the principles of the applied approach in developing the materials.

b. Materials for English Tutorial Program

The characteristics of good learning materials proposed by Tomlinson above are often applied on the general coursebooks which aim for teaching language in school. Since English tutorial program is under the issue of English for Specific Purposes, the materials needed for the program should be met the criteria of ESP. The key component of ESP is needs analysis. The materials should meet the learners' needs in terms of their target needs and learning needs. Furthermore, the materials should be based on the goal of English tutorials program. As the materials are for English tutorial program, the materials should give opportunities to practice oral communication in order to improve their speaking ability by using

the language which are necessary for the participants and appropriate for the situation they are in.

Skeldon in Tomlinson (2008:60) has reviewed some materials of English intended for Science and Technology. He explains what can be done by teachers in order to provide suitable and useful materials for the learners who have particular needs of language. First, the use of authentic material will help teachers to get genuine communicative purpose and simulate the content. Second, the input from authentic materials sometimes needs to be extracted in order to suit the students' level of proficiency. Then, there should be pre- activities such as reviewing key vocabularies of the topics before coming to the tasks. Use some illustration to help learners understanding the content of materials. Provide follow up activities in the materials so that the learners can recycle the ideas and vocabularies they had met in the opening of text. In the end of activities, provide the learners with some issues and ask them to have group discussion activities of the issues so that they have chance to express their own thoughts and ideas. Those criteria can also be applied in developing materials for the participants of English tutorial program majoring in Mathematics Education.

5. Materials Development

a. Definition and Principles

According to Tomlinson (1998:2) materials development refers to anything that is done by the practitioners to provide sources of language input for language learning. Graves (2000:149) defines that materials development is the planning

process by creating units. The lessons in the units are used to achieve the goal and objectives of the course. Tomlinson (2012: 143) notes that the process of materials development includes materials evaluation, their adaptation, design, production, exploitation and research. Similar idea is stated by Graves that materials development includes creating, choosing or adapting and organizing materials.

Tomlinson (2012:156) mentions some principles of materials development.

Those principles include:

- the language experience needs to be contextualized and comprehensible
- the learners need to be motivated, relaxed, positive and engaged
- the language and discourse features available for potential acquisition need to be salient, meaningful, and frequently encountered.
- the learner need to achieve deep and multi-dimensional processing of language

From the definition above, materials development is intended to provide language input in or learn language. In its process, materials development has some steps or procedure. The procedure of materials development is based on the model of materials development which is adapted.

b. Model of Materials Development

According to Gall, Gall and Borg (2003:570), the most widely-known procedure of product development is the model proposed by Walter Dick and Lou

Carey. The model consists of ten steps. Below is the description of each step of Dick and Carey's model:

- > Step 1 : Defining the goals for the instructional program or product.
- ➤ Step 2: Undertaking instructional analysis to identify the specific skills, procedures and learning tasks that are involved in reaching the goal of instruction.
- ➤ Step 3: Identifying the learners' entry skills and attitudes, the characteristics of the instructional setting and the characteristics of the settings in which the new knowledge and skills will be used.
- > Step 4: Translating the needs and goals of instruction into specific performance objectives.
- > Step 5 : Developing assessment instruments.
- > Step 6 : Developing a specific instructional strategy for assisting learners with their efforts to achieve each performance objective.
- ➤ Step 7: The development of instructional materials which may include print materials such as textbooks and teacher training manuals or other media such as audiocassettes or interactive video systems.
- > Step 8 : Designing conductive and formative evaluation of instruction.
- > Step 9 : Revising instruction.
- > Step 10 : Designing and Conducting summative evaluation.

Step 2 and 3 may overlap each other or simultaneously. Step 8, 9, 10 involve the distinction between formative and summative evaluation.

6. Unit Design Development

Materials contain some units. As part of materials, a unit consists of a number of activities or tasks that will be used for learners to carry out their goals and objectives. Nunan (2004) provides some principles of designing unit.

a. Principles of Unit Design

Nunan (2004:35) mentions seven principles of unit developments. Those principles are:

1. Scaffolding

Lesson and materials should provide supporting frameworks for learners within which the learning occurs. It is stated that the learners should not be ask to produce language that has been introduced at the beginning of the learning. The scaffolding should not be removed too early, so that it can scaffold the next activities in the learning process. But it cannot be maintained too long because the students need to develop the independence required for autonomous language use.

2. Task dependency

"Within a lesson, one task should grow out of, and build upon, the ones that have gone before". It means that the task is exploited and built on that which has gone before. By doing so, the learners are led step by step in order to be able to do the final pedagogical task in the sequence. There are a number of other principles within the task-dependency framework. They are receptive-to-productive principle and reproductive-to-creative language principle. The

learners, first, spend greater proportion of time on receptive tasks (listening and reading) than productive tasks (speaking and writing). Later, the proportion changes into productive work.

3. Recycling

When learners are introduced to linguistics items, they will not one hundred percent acquire the linguistics items. Hence, learners need to be reintroduced with them over a period of time. Recycling allows the learners to meet the linguistics item in a range of different environment both linguistic and experiential. It also shows the use of linguistics items in different context.

4. Active learning

The learners learn best through doing acting out using the language they are learning rather than constructing their knowledge or being passive achieving knowledge transmitted by the teacher. The important point in the learning is the learners actively do the work not the teacher.

5. Integration

Some aspect of language learning such as linguistics form, communicative function and semantic meaning should not be taught separately. The teaching should make clear the relationship between because in effective communication those things are essential.

6. Reproduction to creation

Learners are led to have mastery on form, meaning and function through productive tasks. Then they are provided with creative tasks in which they are recombining elements in new ways.

7. Reflection

Learners are given opportunities to do reflection on what they have learned and how well they are doing. Nunan (2004: 35) mentions that based on research "learners who are aware of the strategies driving their learning will be better learners" than those are not aware of it.

Those seven principles are drawn on the developed materials. Teachers or materials developers should also determine model of unit design as a framework to organize activities within the units

b. Model of Unit Design

Nunan (2004:31) proposed six-step procedures that enable the learners to carry out the tasks in the units. Those procedures consist of:

1) Step 1: Schema building.

In this first step a number of schema-building exercises are develop in order to serve as the introduction about the topic, set the context, some of key vocabularies and expressions.

2) Step 2: Controlled practice

In this step, the students are provided with controlled practice in using language vocabulary, structure and functions.

3) Step3: Authentic listening practice.

The learners are given opportunity to practice listening intensively by listening to a number of native speakers.

4) Step 4: Focus on linguistics elements

The students take part in a sequence of exercise in which the focus is on one or more linguistics elements.

5) Step 5: Provide freer practice

The students involve with reproductive language work.

6) Step 6: Introduce the pedagogical task

The students are introduced with pedagogical task in which the activity is done in groups.

The procedures above, elaborate the organization of tasks within the unit. In organizing tasks, it raises the issues of tasks grading and sequencing. Instead of those procedures, there many of aspects that need to be considered in organizing the tasks within the units so that the students are able to carry out all of the tasks effectively.

c. Task Grading and Sequencing

Tasks in the unit should be put on a good organisation. A good organization covers the matter of grading, sequencing and integrating of the task. To do such matter some factors are worth considering. Nunan (2004:114) mentions the factors that are input, procedures and learners. Another thing should be taken into consideration is level of difficulty. As emphasized by Nunan (2004: 85) that the

issue of difficulty is a central of importance to researcher and other practitioners. The task should be graded form the easier task to the more difficult one. Furthermore, difficulties covers few aspects such as difficulty which is related to the input especially linguistics description and difficulty in the matter of the ability of learners in acquiring particular language items.

1) Grading Input

Input may cause difficulty to students in comprehending it. In grading the input, many of things are worth considering. The first is the complexity of the input in term of grammatical factors. Other things that affect difficulty are the length of the text, propositional density, the amount of low-frequency vocabulary, the speed of spoken texts and the number of speakers involved, and the explicitness of the information.

The discourse and clarity also affect the difficulty of the input. For example, a paragraph in which the main point is stated implicitly is more difficult than that in which the main point which is stated explicitly in the opening of the paragraph. A passage in which the chronological is the same as the chronological order in the real life will be easier to process than one that its information is presented out of sequence. In addition, a passage supported with photographs, drawings, tables, graphs and soon will be easier than that which is not supported by such things. Another factor is the type of the text. It is argued by genre theorists that narratives, recounts, descriptive texts will be easier to process than abstract or argumentative texts involving the expression of opinions and attitudes.

2) Learner factors

In the matter of comprehension especially in reading, there are two factors which are factors which are factors inside the learners and outside the learners. Factors inside the learners (Pearson and Johnson,1972 on Nunan, 2004) are background knowledge, interest, motivation and soon. It is stated that comprehension is a process of building bridges between existing knowledge and new knowledge. It means that, in order to comprehending something, the learners use their pre-existing knowledge and try to fit the new knowledge. The new knowledge may not fit into their pre-existing knowledge, then, modification and adaptation of the framework are needed or develop an entirely new mental framework altogether.

Brindley (1987) in Nunan (2004:120) suggest other factors in addition to background knowledge. They include confidence, motivation, prior learning experience, learning pace, observed ability in language skills, cultural knowledge / awareness and linguistics knowledge.

3) Procedural factors

Procedural factors are related to the operation that learners are expected to perform on input data. To control the difficulty of the input is not done by simplifying the input data but by varying the level of difficulty of the procedures. The complexity of what learners have to do can be determined by the some factors. According to Nunan (2004:123), those factors include relevance, complexity, amount of context provided prior to the task,

processibility of language of the task, amount of help available to the learner, degree of grammatical complexity, time available to the learner, and follow-up.

d. Task Continuity

Nunan (2004:125) cites that continuity refers to the interdependence of tasks, task components and supporting skills inside an instructional sequence. There are some approaches in sequencing tasks mentioned on Nunan. One of the approaches is psycholinguistics processing approach in which the tasks are sequences based on the cognitive and performance made upon the learners. He presents steps in sequencing tasks based on the approach which contain three phase (processing/comprehension, productive and interactive). Each phase contains a number of steps. Those steps expect learners to carry out activities which move from comprehension-based procedures to controlled production activities and exercises, and finally to those which require authentic communicative interaction. Other factors such as the logic of themes and learning pathways can also be taken into consideration in sequencing the tasks instead of the tasks complexity as determined by input, learner and procedural factors.

e. Within Task Sequencing

According to Nunan (2004:128) the sequence within task is divided into three phases which are a pre-task phase, a task-proper phase and follow up phase. A pre-task phase serves as schema building tasks. The phase functions to orient

learners to the task, generate interest and rehearse essential language that will be needed to complete the task. Task-proper phase is where learners complete the task. In the follow-up phase, learners get questions from the teacher about the work they have done, reports the results of the task to the whole class, and they may be given corrective feedback from the teacher. The phase may serve also as a bridge to the pre-ask phase of the next task cycle.

7. Task Design Development

a. Task Definition

Task, according to Branden (2006:4), is an activity in which a person engages to reach an objective and require the use of language. Nunan (2004: 1) divides tasks into two types which are real-world task or target task and pedagogical task. Target tasks refer to language uses in the world beyond the classroom while pedagogical tasks refer to language uses that occur in the classroom. According to Long (1985:89) on Nunan, target task is a piece of work which is carried out for oneself or for others, freely or because of some reward. Nunan (2004:4) defines pedagogical task as follow:

.....pedagogical task is a piece of classroom work that involve learners in comprehending, manipulating, producing or interacting in the target language while their attention is focused on mobilizing their grammatical knowledge in order to express meaning and in which the intention is to convey meaning rather than manipulate from.

Task has some characteristics. Skehan (1998) in Nunan (2004:3) lists five characteristics of task which are:

- Meaning is primary

- Learners are not given other people's meaning to regurgitate
- There is some sort of relationship to comparable real-world activities
- Task completion has some priority
- The assessment of the task is in terms of outcome

Instead of those characteristics, task has some elements or components which make up the task. Those components will be elaborated in the next explanation.

b. Task Components

A task has elements that make up the task. As mentioned by Nunan (2004: 41), those elements consist of goals, input data and learners procedures which are supported by teacher, learners roles and setting in which the tasks are carried out. Those elements can be conceptualized through the diagram below:

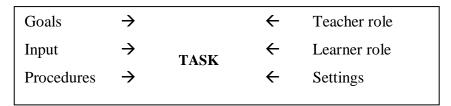


Figure 2.1 Task Components

There are some experts who suggest similar elements as Nunan's. Shavelson and Stern (1981:478) in Nunan (2004: 40) suggest that tasks should contain the following elements, such as content (the subject matter to be taught), materials (the things that learners and teacher will be doing during a lesson), goals (the teacher's general aims for the task), students (their ability, need and interest are important) and social community (the class as a whole and its sense of groupness).

Similar idea is also mentioned by Candlin (1987) in Nunan (2004:40) that a task has elements such as input, roles, settings, actions, monitoring, outcomes and feedback.

Below is the elaboration of six components of task according to Nunan (2004:41).

1) Goals

Shavelson and Stern (1981) in Nunan (2004:40) define goals as general aims of the teacher for the tasks. Similar idea is stated by Nunan (2004) that goals are the vague, general aims behind any learning task. It is stated that goals are more general than formal performance objectives. Goal is considered as an important aspect of task because it gives direction to both any given task and the curriculum as a whole.

A range of general outcomes may be associated to goals or goals may directly describe teacher or learner behaviour. The connection between goals and tasks is not always a simple one-to-one. It is possible to have more than one goal in a complex task. In addition, goal may not be stated explicitly but it can be found out through inferring it from the task.

The goal statements which are considered as the most useful statement are those which relate to the student not the teacher and those that are expressed in terms of observable performance.

2) Input

Nunan (2004:47) states that input refers to data that learners work with in completing a task. The data can be in the form of spoken, written and visual. The sources of the data may come from a teacher, a textbook or any other sources.

There are two types of input, authentic input and non-authentic input. Authentic inputs are those that have been produces for communication purposes not for language teaching purposes. Regarding to the matter of authenticity, Nunan emphasizes that what is more important is not the matter of authenticity or nor but what combination of authentic which provide learners with optimal learning opportunities especially written materials.

Brown and Menasche (1993) on Nunan (2004) make distinction type of materials regarding to authentic or non-authentic materials.

- a) Genuine: created for the realm of real life but used in the classroom
- b) Altered: the original version is altered in other ways without changing the meaning (the insertion of glosses, visual resenting, the addition of visuals)
- Adapted: authentic material that have been simplified in terms of vocabulary and grammatical structures.
- d) Simulated: created for language teaching purposes by using characteristics of genuine texts.
- e) Minimal / incidental: created for the classroom with no intention to make the material look genuine.

According to Brinton (2003) and Snow and Brinton (1997) on Nunan (2004:52), authentic content can be taken from subject areas in the school curriculum and the activities can be adapted from relevant academic disciplines.

3) Procedure

In relation to the input data, procedure plays a role in forming the point of departure for learning task by specifying what learners will do with the input. One of criteria in selecting task is authenticity. As mentioned by Candlin and Edelhoff (1982) on Nunan (2004:53) that it is not only the authentic input which is brought into the class but the process of dealing with the input should also be authentic. This statement is reinforced by Porter and Roberts (1981) on Nunan (2004:53) that using authentic texts in non-authentic ways limits the potential of the materials as resources for language learning.

Nunan suggests some ways on analyzing tasks. First is by analyzing task in term of what extent the task requires the learners to rehearse some communicative behaviours they will use outside the classroom. Second is the focus n goal of the tasks, whether the tasks are concerned with skill getting and skill using. The concern in skill getting is the learners are able to master phonological, lexical, and grammatical forms through memorization and manipulation, while in skill using they apply those skills in communicative interaction. Next is whether the tasks are focused in accuracy or fluency. Brumfit on Nunan points out that though both issues are differentiated in term

of materials and activities but they are actually complementary. In addition, Skehan (1998) on Nunan (2004) shows that different types of tasks result different degree of accuracy, fluency and complexity. The last distinction that can be used to evaluate procedures is the locus of control. Usually, in the skill-getting activities the control is on the teacher. However, in role plays, simulation and soon, the control is much more on the learners.

4) Teacher and Learners roles

As it is mentioned before that the locus of control of the procedures may rests on the teacher or the learners. It means that teachers and learners have contribution in carrying out the tasks. As mentioned by Nunan that 'roles' refer to the part in which teachers and learners are required to take part in carrying out task and also the social and interpersonal relationships between the participants.

According to Nunan (2004), the roles of learners can be described as follows:

- a) the learner is a passive recipient of outside stimuli
- the learner is an interactor and negotiator who is capable of giving as well as taking
- c) the learner is a listener and performer who has litte control over the content of learning
- d) the learner is involve in a process of personal growth

- e) the learner is involved in a social activity, and the social and interpersonal roles of learner cannot be divorced from psychological learning processes
- f) the learner must take responsibility for his or her own learning, developing autonomy and skills in learning how-to-learn.

The teacher needs to adopt a different role in order to give learner a more active role in the classroom. Problem may appear if there is a mismatch between the role perception between teachers and learners. If such problem arises, the teacher needs to strike a balance between the role that the teacher feels appropriate and the role that is demanded by the students.

Breen and Candling (1980) in Nunan (2004:67) state that in the communicative classroom, teacher has three main roles which are: acting as facilitator of the communicative process, acting as a participant and acting as an observer and learner.

5) Settings

Setting is the arrangements of classroom which are implied in the tasks. It relates to the students configuration in carrying out task. In the communicative classroom, it is possible that a wide range configuration is applied although in the practice the configuration may be limited by the size of the class. Wright (1987:58) in Nunan (2004:71) illustrates some of ways in grouping students in the activities such as individual, pair work, small group, and whole class.

In order to achieve the goal embedded in the tasks, those components of tasks should be taken into consideration in creating tasks and carrying out the tasks. In addition, the types of the tasks also give contribution in achieving the goal. Below is the elaboration of what kind of tasks that can be applied in the classroom

c. Task Types

Mastery on a certain skill can be achieved through certain types of tasks. Types of task needed by students to help them in achieving mastery on speaking skills will be different from those needed to help them in order to master reading skill. Nunan (2004: 58) proposes classifications of tasks according to the strategies behind tasks. They are:

Table 2.1 Classifications of Tasks

Cognitive	
Classifying	Putting similar things in groups
Predicting	Predicting what will learned in the process of learning
Inducing	Looking for patterns and regularities
Taking Notes	Writing down the important text using their words
Concept Mapping	Pouring the main ideas in a text in the form of a map
Inferencing	Learning something new by using what students already
Discriminating	know
Diagraming	Differencing between the main idea and supporting
	information
	Labelling a diagram using information from a text
Interpersonal	
Co-operating	Sharing ideas and learning with other students
Role playing	Pretending to be somebody and employing the language
	for the situation students are in
Linguistics	
Conversational	Using expressions to start conversations and keep them
patterns	going.
Practicing	
Using context	Doing controlled exercises in order to improve knowledge
	and skills
Summarizing	Guessing the meaning of an unknown word, phrase, or

	concept using surrounding context
Skimming	Picking out and presenting the major points in a text in the
	form of summary
	Getting a general idea of a text though reading quickly
Affective	
Personalizing	Learners share their own opinions, feelings and ideas
Self-evaluating	about a subject
	Thinking about how well they did on a learning task and
Reflecting	rating themselves on a scale
	Thinking what way would be the best in learning
Creative	
Brainstorming	Thinking of as many new words and ideas as one can

If Nunan proposes the task types based on the strategies behind the tasks, another expert, Richard (2001:162) on Nunan, recommend some pedagogical tasks which are based on an analysis of communicative language use as follows:

- Jigsaw tasks. Learners combine different pieces of information o form a whole.
- Information-gap tasks. These tasks involve transferring given information activity in which one student has one set of information and another student or group has a complementary set of information.
- Problem-solving tasks. The students should find out the solution from the given problem using given information.
- Decision-making tasks. Students should choose an outcome from a number of possible outcomes to solve the given problem through negotiation and discussion.
- Opinion exchange tasks. Students exchange their opinions through discussion.

In conclusion, task is an activity in the procedures used as vehicle to achieve the goal of learning. A task consists of some elements in which each of the elements can determine the type of the task.

8. Materials Evaluation

The completed materials will be evaluated whether they are appropriate or not to be used for students in process of teaching and learning. The materials evaluation will be based on a systematic check of all important variables and there are some steps in conducting materials evaluation.

Evaluation, based on Hutchinson and Waters (1987:96), relates to the judgement of appropriateness of something for particular purposes. It means that materials evaluation is the matter of judging the fitness of materials for students for particular purposes in learning. Ellis on Tomlinson (1998:222) mentions two kinds of evaluation which are macro-evaluation and micro-evaluation. Macro evaluation is programme/project evaluation, while micro-evaluation is evaluation of a specific task.

Ellis provides a framework of materials evaluation. Below is the process of materials evaluation according to her.

- a. Step 1: Description of the task. It covers contents (input, procedures, language activity) and objectives.
- b. Step 2: Planning evaluation
- c. Step 3: Collecting Information
- d. Step 4: Analysis of the information collected
- e. Step 5: Conclusion and recommendation

Before doing materials evaluation, it is important to find the criteria of the evaluation. The criteria of the materials evaluation will be based on the criteria of

materials evaluation for Vocational School by BSNP which consist of four aspects. They include content, presentation, language and lay out.

B. Conceptual Framework

The English Speaking Club needs materials to assist the students learning which are appropriate with the needs of the participants in terms of their majors and proficiency levels. Therefore, suitable materials need to be developed.

The materials are developed based on the criteria of good learning materials. According to Tomlinson (1998:7), good materials should have impact of novelty and variety, should be relevant and useful, develop the students confidence, put students at ease and soon. While according to Skeldon on Tomlinson (2008:60), good learning materials has characteristics such as suitable and useful for the students with particular need of language, materials help students to get genuine communicative purpose, materials suits to the students' level of proficiency, materials provide pre-activities and follow up activities, materials use illustrations to help students to understand the content of the materials and finally the materials allow students to have discussion activities to express their own thought and ideas.

English Speaking Club is under the issue of English for Specific Purpose. Hence, the materials are developed based on this approach as well. According to Hutchinson and Waters (1987:19), English for Specific Purposes is an approach to language teaching which is based on the learners' needs. The procedure of

materials development will be based on the model of materials development proposed by Gall, Gall and Borg (2003).

The preliminary step in developing materials is administering needs analysis. According to Basturkmen (2010), needs analysis is the key component of ESP. It aims to find out the needs of the participants. The needs analysis is done by distributing needs analysis questionnaire to the students. The questionnaire contains a number of questions which have purpose to figure out the students 'target needs and leaning needs.

The second step in developing the materials is writing course grids. The result of needs analysis will show the students' preferences. And those will be used as base in writing the course grids. The course grids consist of a number of elements which are the number of the unit, unit title, topic, indicators, language functions, language focus, procedure and input.

The course grids, then, are used to develop units. There are three units that are developed in this research. Those units are developed based on Content-Based Instruction approach proposed by Richard and Rodgers (2001). According to Richards and Rogers (2001: 204), Content-Based Instruction is an approach which the organization of teaching is emphasized on the information or the content that will be acquired by the students. It means that CBI integrates contents of learning with aims of language. Therefore, the topics for the materials will be in line with the students' major and the choices of the topics will be based on the results of needs analysis.

A unit is made up of tasks. A task is made up from elements. According to Nunan (2004:41), task has six elements which are goal, input, procedure, teacher's roles, learner's role and setting. Therefore, the tasks are developed by referring to those elements.

In developing tasks, it is not only those elements that are worth considering but the organization of tasks within the units is also important so that the tasks can be carried out effectively by the students. The tasks within the units are sequenced and organized by using Nunan's principles as well.

Then, after developing the materials, the developed materials are evaluated to check whether they meet the criteria of good materials and the needs of the participants or not. The evaluation will be done by distributing expert judgment questionnaires to two experts. The expert judgment questionnaire is written based on the criteria on the "Instrumen Penilaian Buku Teks Pelajaran Bahasa Inggris" from BSNP (Badan Standarisasi Nasional Pendidikan) 2007. The materials are evaluated in terms of four aspects which are content, language, presentation and layout.

Finally, the purposes of this research are to describe the target needs and the learning needs of the students and to develop the English speaking learning materials for the intermediate level of students of International Study Program of Mathematics Education in terms of academic context.

CHAPTER III

RESEARCH METHODS

In the previous chapter, it has been elaborated the theories related to this research. This chapter describes the methodological steps carried out in this research. The description includes research design, research setting, research subjects, research procedure, data collection techniques, instruments and data analysis techniques.

A. Research Design

This research was classified into Research and Development (R&D) that adapted the framework of developing English learning materials by Gall, Gall and Borg (2003). According to Gall, Gall and Borg (2003), Research and Development is industry-based study. The results of R&D are used to develop or design new products and procedures.

B. Research Setting

The research was conducted from May 2013 to June 2014. It was carried out in the Independent Language Learning Center (ILLC) of the Center of Language Development (*P2B*) located in LPPMP building, first floor, Yogyakarta State University, Karangmalang, Yogyakarta.

C. Research Subjects

The subjects of the research were the students of International Study Program of Mathematics Education who joined the English Speaking Club. The number of the research subjects was 21 students.

D. Research Procedure

The research procedure employed in this research was adapted from Gall, Gall and Borg (2003). Those steps can be described as follows:

1. Collecting data and information

In collecting the data and information, researcher conducted preliminary observation, literature review and needs analysis. The data and information were collected with the intention to find out the students learning needs and target needs. After the data were gathered, they were used as the basis in developing the materials. Therefore, the material developed would meet the students' needs.

2. Writing course grids /syllabus

The next step after obtaining the data was writing the course grid. The course grid was written based on the students' learning needs and target needs. And then it was used as the guideline to develop the materials. The course grid contained some aspects such as title of the unit, topic, indicators, language focus, procedure and input.

3. Developing the first draft of the materials

The first draft of the material was developed by referring to the course grid and using the appropriate inputs. The material was developed into three units in which each unit was made up from a number of tasks. In this step, comments and suggestion from experts were needed to produce good materials.

4. Evaluating the first draft of the materials (expert judgment)

After finishing writing the first draft of the materials, the researcher asked experts to evaluate the draft whether the developed material was appropriate for the students or not by distributing evaluation questionnaires to two experts. The suggestions and feedback from the experts were used to revise the materials.

5. Revising the first draft and writing the final draft of the materials

The first draft that had been evaluated by the experts was revised by referring to the comments and suggestions given by the experts. The revision of the first draft then was written as the final draft.

6. Making conclusions and recommendation

After writing the final draft, the researcher wrote the conclusion and recommendation regarding to the materials.

E. Data Collection Techniques and Instruments

The data collection technique employed in this research was the use of questionnaires. There were two types of questionnaires employed in this research which were needs analysis questionnaire and evaluation or expert judgment questionnaire.

a. Needs Analysis Questionnaire

The needs analysis questionnaire was distributed to the students to find out the students' target needs and learning needs. The questionnaire consisted of a number of questions in which each question has some options. The students were asked to choose one or more the options in the questions or write their own options which were not exist in the options. Below is the organization of needs analysis questionnaire.

Table 3.1 The Organization of Needs Analysis Questionnaire

No	Aspect	Number	Purpose of the	References
		of Items	questions	
1	Students	1	To find out personal	Graves (2000:
	personal identity		information about the	103)
			learners.	
2	Necessities	2, 3, 4, 5	To find out the	Hutchinson
			students' needs related	and Waters
			to the demand of the	(1987: 55)
			target situation from	
			an objective sense.	
3	Lacks	6, 7, 8,	To find out the gap	Hutchinson
			between students'	and Waters
			existing knowledge	(1987: 55)
			and the required	
			knowledge level.	
4	Wants	9	To find out the	Hutchinson
			students' needs related	and Waters
			to the target situation	(1987: 56)
			from the students'	
			point of view.	
5	Goal	10	To find out the	Graves (2000:
			expectation of the	104)
			students to the English	
			learning.	

6	Input	11, 12, 13,	To find out the content that should be carried out in the tasks which are designed.	Nunan (2004: 47)
7	Procedures	14, 15, 16, 17,	To find out what the students should do with the tasks.	Nunan (2004: 52)
8	Setting	18	To find out whether the tasks should be carried out in group work, pair work or individual work.	Nunan (2004: 70)
9	Learners' role	19	To find out the learners' role in the classroom.	Nunan (2004: 64)
10	Teachers' role	20	To find out the teacher's role in the classroom.	Nunan (2004: 67) and Harmer (2001:58)

b. Expert Judgment Questionnaire

The expert judgment questionnaire was distributed to material expert after finishing writing the first draft. It was used to evaluate the materials whether they were appropriate or not for the students in term of their content, their presentation, their language and their graphic or lay out. The organization of the expert judgment questionnaire is listed below.

Table 3.2 The Organization of Expert Judgment Questionnaire

No	Components of	Aspects	Item Number	References
	Evaluation			
1	Content	Completeness	1, 2	BSNP (2007)
		Depth	3, 4, 5, 6, 7	BSNP (2007)
		Accuracy	8, 9, 10	BSNP (2007)
		Life Skill	11	BSNP (2007)
		Development		
2	Language	The	12	BSNP (2007)

		appropriateness at developmental		
		level of Students		
		Communicative	13	BSNP (2007)
		Grammatical	14, 15, 16	BSNP (2007)
		Accuracy		
		The unity of	17, 18	BSNP (2007)
		Ideas		
3	Presentation	Systematic	19	BSNP (2007)
		Balance	20	BSNP (2007)
		between the		
		Units		
		Students'	21, 22, 23	BSNP (2007)
		centeredness.		
		Creativity	24	BSNP (2007)
		Autonomous	25	BSNP (2007)
		Self-Evaluation	26, 27	BSNP (2007)
		Presentation	28, 29, 30, 31, 32	BSNP (2007)
		Completeness		
4	Graphic	Typography	33, 34, 35,36,37,	BSNP (2007)
			38	

F. Data Analysis Technique

There were two types of data which were quantitative data and qualitative data. Quantitative data were presented in the form of number. These data derived from the results of data analysis from both questionnaires. Qualitative data were presented in the form of sentences. They were derived from comments and suggestions given by the experts and the results of data conversion from expert judgment questionnaire.

The data obtained from needs analysis questionnaire were presented in the form of percentage. The students' tendency was shown by the highest percentage of the data. The data were analyzed manually using the following formula:

65

Percentage (100) =
$$\frac{f \times 100\%}{N}$$

where:

f : Frequency

N : total number of the students

100 : fixed number

The data from expert judgement questionnaires were measured using Likert scale. According to Penera, Heneghan, and Badenoch (2008:67), Likert scale is a scale that is most commonly used in questionnaire. It is used to assess inter-rater agreement in which the agreement or the answer of one question has two different positions. Likert scale can be expressed in several types such as 3-point, 4-point, 5-point, 7-point. In this research, the 4-point scale of Likert scale was applied.

The data from the expert judgement were then calculated using the mean formula (central tendency) proposed by Levine and Stephen (2010:63):

$$Mean = \underbrace{\sum Xi}_{n}$$

where:

 $\sum Xi$: the sum of data values

n : the number of data values that were summed

and range formula proposed by Suharto (2006).

$$R = \frac{X_1 - X_0}{4}$$

Where:

R : range

 X_1 : Highest score X_0 : Lowest Score 4: the scale

The results were then converted into descriptive analysis based on the conversion table adapted from Suharto (2006:51-52).

Table 3.3 Data Conversion Table

Scale	Range	Categories
1	$2.9 < X \le 3.24$	Poor
2	$3.25 < X \le 3.49$	Fair
3	$3.5 < X \le 3.74$	Good
4	$3.75 < X \le 4$	Very Good

CHAPTER IV

RESEARCH FINDINGS AND DISCUSSION

This chapter presents the findings of this research which was held from May 2013 to June 2014 and discussion. The findings cover the results of the need analysis, the course grid, the unit design, the first draft of the materials, the expert judgment, and the final draft of the materials. This chapter, then, ends with the discussion of the findings.

A. Research Findings

1. The Results of the Needs Analysis

The needs analysis was conducted on October, 2013 at Yogyakarta State University. The needs analysis questionnaires were distributed to twelve students of International Mathematics Education Study Program of who were in semester IV. The questionnaire consisted a number of questions which covered the description of the students' target needs and learning needs.

a. The Description of the Students

The respondents of the need analysis questionnaire were students of International Program of Mathematics Education who were in semester IV. In term of their proficiency level, the students were categorized as an intermediate level category. The description of the respondents is presented in the following table.

Table 4.1: Data of Respondents of the Needs Analysis

Number of the respondent	Sex		Age
	Male	Female	
12	2	10	19 – 20 years old

b. The Description of Target Needs

According to Hutchinson and Waters (1987:54), target needs are what the learners need to do in the target situation. Target needs consists three aspects which are necessities, lack, and wants.

1) Necessities

Hutchinson and Waters (1987:55) define necessities as what the learners need to know in order to function effectively in the target situation. The descriptions of the students' necessities are presented in the following table:

Table 4.2 Necessities of the Students for Now

Item Number	Question	Responses	Percentage (%)
1	Right now, I need speaking skill in English in	a. to be able to do learning activity effectively in the lecturing sessions.	91.7
	order	b. to be able to communicate with lecturers.	50
		c. to be able to communicate with friends.	66.7
		d. to be able to communicate with foreign tourists	41.7
		e. others	16.7

Table 4.2 shows that for now the students need English to be able to do learning activity effectively in the lecturing sessions (91.7 %) and to communicate with their friends (66.7%).

Table 4.3 Necessities of the Students in the Future

Items	Questions	Responses	Percentage
Number			
2	In the future, I need speaking skill in	a. to continue study to post-graduate.	91.7
	English in order	b. to study abroad.	83.3
	to	c. to do job interview.	91.7
		d. to communicate with colleague.	75
		e. to do job such as do presentation.	83.3
		f. others	0

Table 4.3 shows that in the future, the students need English to continue to study to post graduate (91.7 %) and to do job interview as well (91.7 %).

Table 4.4 Language Functions

Item	Question	Responses	Percentage
Number			(%)
3	Language functions	a. asking for someone's	91.7
	or expressions that	opinion	
	I will occasionally	b. saying you have opinion	83.3
	need in order to	c. asking for explanation	50
	improve my	d. giving explanation	75
	speaking skill in	e. agreeing	75
	terms of academic	f. disagreeing	83.3
	context is/are	g. describing concepts	83.3
		h. suggesting	91.7
		i. arguing	50
		j. making generalizations	91.7
		k. others	0

Table 4.4 shows that the students want to study language functions such as asking for someone opinions (91.7 %), suggesting (91.7 %) and making generalizations (91.7 %).

Table 4.5 Important Elements in Speaking

Item Number	Question	Responses	Percentage (%)
4	In my opinion, the	a. fluency	75
	important	b. clear pronunciation	83.3
	element/s in speaking is/are	c. a wide range of vocabulary	83.3
		d. grammatical accuracy	83.3
		e. confidence	75
		f. others	0

Table 4.5 shows that the important aspects in speaking for the students are clear pronunciation (83.3%), a wide range of vocabulary (83.3%), and grammatical accuracy (83.3%).

2) Lacks

Lacks are related to the gap of the students about what that they have already had and what they have to know in the target situations. The descriptions of the students' lacks are presented in the following tables.

Table 4.6 The Students' Level of Proficiency

Item	Question	Responses	Percentage
Number			(%)
5	In general, my	a. I cannot communicate	0
	English proficiency	orally at all in English.	
	is	b. I find it a little bit difficult	25
		to understand when	
		somebody talks to me in	
		English and using various	
		topics.	
		c. I can speak in English in	41.7
		the situation and topic that	
		I have known but I make	
		many mistakes.	
		d. I can speak in English in	33.3
		various situations and	

various topic but I still make mistakes	
e. I can respond in English when somebody talks to	33.3
me using English.	
f. I have no problems in	8.3
understanding what people say in English in	
various topics.	

Table 4.6 shows that 41.7 % of the students are able to speak in English in the situation and used topic that they have already known, although they still made mistakes. 33.3 % of students are able to speak in English in various situations and use various topics though they still make mistakes and the same numbers of students (33.3 %) are able to respond when somebody talks in English. The students with those characteristics can be categorized as pre-intermediate students.

Table 4.7 The Students' Difficulties in Communicating in English

Item	Question	Responses	Percentage
Number			(%)
6	In communicating orally in English, I find it difficult	a. find the appropriate words for the sentences that I am going to say.	58.3
	when I have to	b. express particular expressions or language functions.	50
		c. pronounce the words correctly.	33.3
		d. memorize formulas such as tenses.	33.3
		e. apply grammar to the sentences that I am going to say.	66.7
		f. understand particular terms in Mathematics.	58.3
		g. others	0

Table 4. 7 shows that in communicating in English, 66.7 % of the students find it difficult to apply grammar to the sentences that they were going to say and 58.3 % of the students have difficulty in finding appropriate words for the sentences that they are going to say and understanding particular terms in mathematics.

Table 4.8 The Students' Vocabulary Mastery

Item Number	Question	Responses	Percentage (%)
7	The number of	a. < 100 words.	16.7
	English vocabulary	b. 100-500 words.	75
	related to	c. 500-1000 words.	0
	Mathematics that I	d. > 1000 words.	8.3
	have mastered are		

Table 4.8 shows that most of the students about 75 % of the students have mastered 100 - 500 English words related to Mathematics.

3) Wants

Wants is considered as what the students wants to learn.

Table 4.9 The Students' Wants in Learning Process

Item	Question	Responses	Percentage
Number			(%)
8	In general, I want that the learning	a. to able to speak English more fluently.	83.3
	process in the English tutorial	b. to be able to speak English accurately.	83.3
	program will help me	c. to be able to understand the lectures' handouts better.	58.3
		d. others	0

Table 4.9 shows that 83.3 % of the students wanted that the learning process in the English tutorial program can help them to be able to speak English more

fluently and accurately and 58.3 % of the students wanted that the learning process in the English tutorial program can help them to be able to understand the lectures' handouts better.

c. The Description of Learning Needs

Learning needs is considered as what the learner needs to do in order to learn (Hutchinson and Waters, 1987:60). Learning needs covers six aspects which are: goal, input, procedures, setting, learners' role and teachers' role.

1) Goal

Table 4.10 The Goal of the Students

Item Number	Question	Responses	Percentage (%)
9	My goal in participating in English tutorial program in terms of academic	a. to help me to be able to master vocabulary related to my study program in order to understand spoken and written texts.	83.3
	context is/are	b. to help me to be able to master vocabulary related to my study program and use them in oral communication.	75
		c. to help me to be able to master grammar and apply them in the oral communication with friends and lecturers inside the classroom.	41.7
		d. to help me to be able to respond somebody using appropriate expressions or language functions.	58.3
		e. others	0

Table 4.10 shows that most of the students (83.3 %) want that English tutorial program can help them in mastering vocabulary related to their study program in order to be able to understand spoken and written texts and 75% of the students vote that English tutorial program can help them in mastering vocabulary related to their study program and using them in oral communication.

2) Input

Table 4.11 Topics of the Materials

Item Number	Question	Responses	Percentage (%)
10	The topics that I	a. integers.	58.3
	want to cover in the	b. fraction.	41.7
	English materials	c. notation.	50
	for English tutorial	d. linear equation.	50
	program activities	e. set and number of a set.	50
	in term of	f. quadrilateral.	58.3
	academic context	g. line and angles.	33.3
	are	h. triangles.	58.3
		i. circles.	50
		j. algebra.	58.3
		k. Pythagorean Theorem.	25
		l. others	16.7

Table 4.11 shows that students want to have integers, quadrilateral, triangles and algebra as the topics that they are going discuss in learning speaking as 58.3 % of the students vote for those topics.

Table 4.12 Types of Input

Item	Question	Responses	Percentage
Number			(%)
11	Learning inputs in	a. monologue/dialogue	83.3
	the English	b. short monologue/dialogue	75
	materials for	that is/are performed in	
	English tutorial	front of class.	
	program Activities	c. authentic materials such as	41.7
	that I want are in	news, movie clips, song	
	the form of	etc.	
		d. others	0

Table 4.12 shows that 83.3 % of the students choose monologue and dialogue as the input that they want to learn and 75 % of the students wanted to have short monolog/dialog that are performed in front of the class

Table 4.13 Input Length

Item	Question	Responses	Percentage
Number			(%)
12	The type of inputs	a. 150-200 words.	25
	that I am suppose	b. 200-250 words.	58.3
	to have contains	c. 250-300 words.	16.7
		d. > 300 words.	0

Table 4.13 shows that the length of the input should be 200-250 words long as 58.3% of the students vote for it.

3) Procedures

Table 4.14 Learning Procedure

Item Number	Question	Responses	Percentage (%)
13	Learning activity	a. topic discussion in pairs.	66.7
	that I want to have	b. topic discussion in group.	75

in the process of	c. presentation.	66.7
learning in the	d. practice dialog in pairs.	75
English tutorial	e. role play.	58.3
program in order to	f. games.	75
improve my speaking ability in term of academic context is/are	g. others	0

Table 4.14 shows that the students want to have activities like topic discussions in group and games as 75% of the students vote for both of them. The activity of discussion in pairs and do presentation are voted by 66.7 % students.

Table 4.15 Learning Vocabulary Procedure

Item	Question	Responses	Percentage
Number			(%)
14	In learning English vocabulary in the	a. guessing the meaning from the contexts.	66.7
	process of learning in the English tutorial program,	b. completing blank spaces in the paragraph with provided words.	50
	types of activity that I like is/are	c. completing the blanks spaces in the paragraph with your own words.	50
		d. identifying parts of speech.	50
		e. others	16.7

Table 4.15 shows that in order to improve their vocabulary mastery, 66.7 % of the students want to have activity of guessing the meaning of particular vocabulary from the context. 50% of the students also vote for both of complete blank spaces in the paragraph with provided words and their own words.

Table 4.16 Learning Grammar Procedure

Item	Question	Responses	Percentage
Number			(%)
15	In learning grammar in the process of learning	a. identifying mistakes in sentences and correct them.	66.7
	in the English tutorial program, type of activity that	b. creating sentences using the learned pattern of grammar.	66.7
	I like is/are	c. completing paragraph with grammatically correct sentences.	66.7
		d. others	0

Table 4.16 shows that in order to improve their knowledge of grammar, the students want to have activity like identifying mistakes in sentences and correct them, creating sentences using the learned pattern of grammar and completing paragraph with grammatically correct sentences because 66.7 % of the students choose for each of them

Table 4.17 Learning Pronunciation Procedure

Item	Question	Responses	Percentage
Number			(%)
16	In learning pronunciation in the process of	a. repeating the speaker/tutor's pronunciation loudly.	33.3
	learning in the English tutorial program, types of	b. given pronunciation transcription on the particular vocabulary.	91.7
	activity that I like is/are	c. pronouncing words that have been given pronunciation transcription.	50
		d. others	0

Table 4.17 shows that in order to improve their pronunciation, 91.7 % of the students want to be given pronunciation transcription on the particular vocabulary

and 50 % of the students wanted to practice pronunciation of the vocabulary that have been given phonetic transcription.

4) Setting

Table 4.18 Setting

Item	Question	Responses	Percentage
Number			(%)
17	In learning	a. individual.	50
	speaking it is better	b. pairs.	75
	to do the activities	c. small group.	66.7
	in	d. big group.	50
		e. others	0

Table 4.18 shows that the students want to do activities in pairs (75 %) and in small group (66.7%).

5) Learners' Role

Table 4.19 Learners' Role

Item Number	Question	Responses	Percentage (%)
18	When I learn speaking, it will be	a. listen to the tutor explanation and take a	50
	better if I	note.	
		b. listen to the tutor's explanation and do his/her instructions.	66.7
		c. participate actively in the discussion activity and share opinion with the tutor and my classmate about particular topic.	58.3
		d. learn individually in a quite classroom.	33.3

Table 4.19 shows that 66.7 % of the students want to listen to the tutor's explanation and do his/her instructions, while 58.3 % of the students want to participate actively in the discussion activity and sharing opinions activity with the tutor and my classmate about particular topics.

6) Teachers' Role

Table 4.20 Teachers' Role

Item	Question	Responses	Percentage
Number			(%)
19	In process of learning, I want tutors act as	a. resource (the tutor acts as knowledge and information sources who gives you examples before you practice the task).	91.7
		b. organizer (tutor organizes you to do various activities).	58.3
		c. prompter (tutor encourages you to think creatively by giving a clue)	75
		d. observer (tutor observes what you do and gives individual or group feedback).	58.3
		e. controller (tutor takes in charge of the class and of the activity).	50
		f. assessor (tutor offer feedback and correction and grades you in various way).	91.7
		g. others	8.3

Table 4.20 shows that the students want that in the process of learning the tutor acts as resource and assessor as 91.7 % of the students vote for each of those roles and 75% of the students want that the tutor acts as prompter.

2. The Course Grid

The course grid was written after the researcher found out the target needs and the learning needs of the students. The students' preferences were shown by the highest percentage of the students' answers in the needs analysis questionnaire. The course grid, then, was written in accordance to the highest percentage of the target needs and learning needs.

The course grid was written as the guideline for developing the materials. The researcher wrote three course grids as the learning materials were developed into three units. The course grids covered a number of elements which were unit, unit title, topic, indicators, language function, language focus, procedure and input. Language focus consisted of two sub elements that were vocabulary and grammar. The course grids can be seen in the Appendix C.

3. The Unit Design

The next step after writing the course grid was developing materials. The learning materials were developed into three units. Each of the units was developed and sequenced using the same procedure.

Each of the units has unit title page before the given activities. The typography of each unit title page of the units has the same elements. The number of the unit

is in the up-left corner of the page. The title of the unit is written next to the number of the unit. The title is written based on the topic that were going to discuss and the language functions that were going to learn. Below the unit title, there is a picture. The picture illustrates the activities that were going to learn by the students in the unit. Below the unit title, then there is a box contained two or three short paragraphs which are intended to give brief description about what the students need to learn and to do in the unit.

A unit is made up from a number of tasks. Each of the units of the developed learning materials consisted 15 - 16 tasks. The tasks consisted listening and speaking tasks. Table 4.21 in the following describes the outline of the unit design in the developed materials.

Table 4.21 The Outline of the Unit Design

Component	Purpose	
A. Let's Get Started	It contains two tasks in which the first task is used to	
	introduce the language functions that the students are	
	going to learn in the unit and the second task is used to	
	brainstorm the students' knowledge about the topic	
	that are going to discuss.	
B. Let's Take Action	It consists of a number of tasks in which the tasks are	
	provided in order to achieve the learning objectives.	
	This part consists of listening and speaking tasks. The	
	tasks are divided into guided-task, semi-guided task	
	and free-guided task.	
C. Let's Do More	It serves as speaking task. This part consists of one	
	task to apply what the students have learned in the	
	previous tasks.	
D. Evaluation	It consists of one task which aims to evaluate the	
	students about what they have learned in the unit. The	
	evaluation task is free-guided task.	
E. Homework	The homework task is real-world task which s	
	intended to ask the students to apply what they have	
	learned in the classroom, outside the classroom.	
F. Let's Make	It aims to provide self-assessment and peer-assessment	
Reflections	for the students so that they students are able to	

	measure their ability after learning the unit.	
G. Summary	It aims to provides the students the summary of	
	language functions and grammar that they have	
	learned in the unit.	
H. Vocabulary List	The vocabulary list is provided in order to give the	
	students review of the vocabulary that they meet in the	
	unit. The vocabulary list covers the English words,	
	parts of speech, pronunciation transcription, and	
	Indonesian equivalent.	

4. The First Draft of the Materials

The first draft of the materials was developed according to the unit design described above. The materials consisted of three units in which each of them was developed based on the figure below. The first draft of the materials can be seen in the Appendix D.

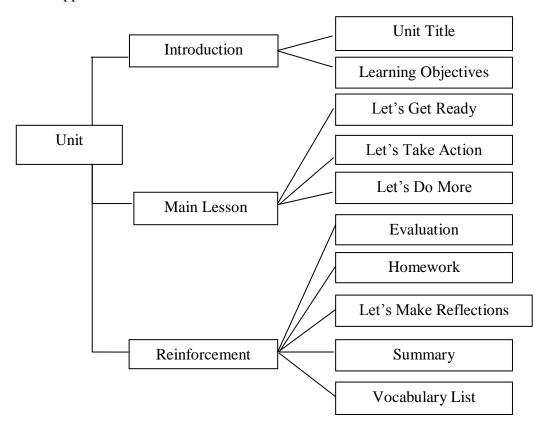


Figure 4.1 The Unit Design of the Materials

Each unit of the developed learning materials had 15-16 tasks. The description of each task in each unit of the first draft of the materials can be seen in the appendix E. The description covers the unit title, parts of the unit, each task instruction and brief description of each task.

5. The Expert Judgment

The next step after the researcher developed the first draft of the materials was evaluating the appropriateness of the draft according to the criteria released by BSNP (2007). The evaluation was done by materials expert. The expert judgment was done by distributing the expert judgment questionnaire to the materials expert. The questionnaire covered four aspects which are the appropriateness of the content, the language, the presentation and the lay out. The questionnaire can be seen in the appendix F. The expert is permanent lecturer of English Education Department of Yogyakarta State University. She has Master of Arts degree and graduates from Canberra University, Australia. By looking at her expertise and experience, her assessments are considered to be valid.

a. The Results of the Expert Judgment and Revision Unit 1

1) The Results of the Expert Judgment Unit 1

As mentioned before, the expert judgment covers four aspects namely the appropriateness of the content, the appropriateness of the language, the appropriateness of the presentation and the appropriateness of lay out.

a) The Appropriateness of the Content

The analysis of the content appropriateness is shown by Table 4.22.

Table 4.22 The Appropriateness of the Content of Unit 1

Item Number	Statement	Score
1	The developed materials are suitable for the needs of the students of International Study program of Mathematics Education in semester four.	4
2	The developed materials are suitable for the academic context of the students of International Study program of Mathematics Education in semester four.	4
3	The developed materials contain texts which are appropriate with the needs of the students of International Study program of Mathematics Education in semester four.	3
4	The developed materials contain language functions which are appropriate with the academic context of the students of International Study program of Mathematics Education in semester four.	3
5	The texts are suitable with the topic.	3
6	The pictures are suitable with the topic.	3
7	The tables are suitable with the topic.	3
8	The developed materials encourage the students to do interpersonal and transactional communication.	3
9	The developed materials encourage the students to understand the meaning structures and linguistics features of the texts.	4
10	The developed materials lead the students to develop their communication skill accurately and appropriately based on a communicative context.	3
11	The developed materials motivate the students to develop personal, social and academic life skills.	4
	Mean (χ)	3.4

It is shown by Table 4.22 that the mean value of the appropriateness of the content of unit 1 is 3.4. It is categorized as "Fair" as its positions is in the interval $3.25 < x \le 3.49$.

b) The Appropriateness of the Language

Table 4.23 shows the analysis of the language appropriateness.

Table 4.23 The Appropriateness of the Language of Unit 1

Item	Statement	Score
Number		
12	The language used is suitable for the English proficiency of the students of International Study program of Mathematics Education in semester four.	4
13	The instructions and explanations in the materials can be easily understood by the students of International Study program of Mathematics Education in semester four.	4
14	The language used in the materials is grammatically correct.	3
15	The spelling is in accordance with the principles of English grammar.	3
16	The choice of words of the materials is in accordance with the principles of English grammar.	3
17	The information in the materials is coherence.	3
18	The information in the materials is cohesive.	3
	Mean (χ)	3.3

It is shown by Table 4.23 that the mean value of the appropriateness of the language of unit 1 is 3.3. It is categorized as "Fair" as its positions is in the interval $3.25 < x \le 3.49$.

c) The Appropriateness of the Presentation

Table 4.24 shows the analysis of the presentation appropriateness.

Table 4.24 The Appropriateness of the Presentation of Unit 1

Item Number	Statement	Score
19	The tasks are sequences from the easiest one to the most	4
	difficult one.	
20	The number of the task is balance among the units.	4
21	The tasks are students-centered.	4

22	The tasks encourage the students to participate actively in the classroom.	4
23	The tasks encourage the students to do oral communication effectively.	4
24	The tasks encourage the students to be creative in the process of learning.	3
25	The tasks encourage the students to be responsible in their own learning process.	4
26	The tasks encourage the students to know their success and lack in the learning and in communicating in English.	4
27	The tasks cover evaluation task in order to measure the students' ability about the materials that they have learned.	3
28	The tasks contain vocabulary related to the topic of the unit.	4
29	The tasks consist of guided activities and free-guided activity	4
30	The unit consists of opening activities.	4
31	The unit consists of main activities.	4
32	The unit consists of closing activities.	4
Mean (χ)		

It is shown by Table 4.24 that the mean value of the appropriateness of the language of unit 1 is 3.85. It is categorized as "Very Good" as its positions is in the interval $3.75 < x \le 4$.

d) The Appropriateness of the Layout

. Table 4.25 shows the analysis of the layout appropriateness.

Table 4.25 The Appropriateness of the Layout of Unit 1

Item	Statement	Score
Number		
33	The design of the materials uses good typography (Unit title, sub-title, page numbers, illustrations, caption and soon)	3
34	The fonts are not too various.	4
35	The fonts are readable.	4

36	The colors used do not disturb the delivery of	3
	information.	
37	The pictures are provided for aesthetic purposes	3
The pictures are provided for functional purposes		3
	3.3	

It is shown by Table 4.25 that the mean value of the appropriateness of the layout of unit 1 is 3.3. It is categorized as "Fair" as its positions is in the interval $3.25 < x \le 3.49$.

Finally, the mean value from all aspects of unit 1 is 3.52. It can be concluded that unit 1 is categorized as "Good" since the position of the mean value is in the interval $3.5 < x \le 3.74$.

2) The Review of Unit 1

From all aspects above, it shows that the developed learning materials are appropriate. However, there are some parts that still need to be revised. The suggestions given by the experts to revise the materials are described in the following:

First of all, in term of content, if it is possible, add some texts talking about the topic. Some questions in the comprehension tasks are just too easy for university students. Therefore, it will be better to change the questions into highorder thinking questions.

In term of language, it is better to be careful in the word choices in some questions. Check and make sure that the questions do not cause misinterpretation.

For the presentation, there's no need to do revision. However, in term of lay out, it is better to give more white spaces so the pages in the materials are not too crowded. In addition, more pictures are better to be added to give illustration of the delivered information.

3) The Revision of Unit 1

In order to improve the quality of the developed learning materials, the experts gave some suggestions and recommendations to revise some aspects of the developed learning materials. Table 4.25 in the following describes the point of revisions of unit 1 and the revisions.

Table 4.26 The Revisions of Unit 1

Parts of the	Point to Revise	Revision
Unit		
Task 1	-	No revision
Task 2	-	No revision
Task 3	-	No revision
Task 4	Some of the questions are not	The word toward was replaced
	effective.	by about.
	What are their opinions toward	
	the topic?	
	The question "where did	The question was revised into
	Colby's materials come	"where did Colby take the
	from ?" is better to be revised.	materials from?"
	The question "what can the	The question was revised into
	topic be applied to?" is not	"in what kind of other fields
	clear.	can the topic be applied to?"
Task 5	-	No revision
Task 6	-	No revision
Task 7	-	No revision
Task 8	-	No revision
Task 9	The word formulas should be	The position of the word
	indented.	formulas was indented.
	The sentence "For example, if	The sentence was indented.
	we go to supermarket to by	
	some food or drink we don't	
	need to use sin or tangent"	
	should be indented.	
Task 10	Add for after the word asking	The word for was added to the
	in the instruction.	word asking.

Task 11	-	No revision
Task 12	-	No revision
Task 13	-	No revision
Task 14	-	No revision
Task 15	-	No revision

b. The Result of the Expert Judgment and Revision Unit 2

1) The Result of the Expert Judgment Unit 2

a) The Appropriateness of the Content

The analysis of the content appropriateness is shown by Table 4.27.

Table 4.27 The Appropriateness of the Content of Unit 2

Item Number	Statement	Score
1	The developed materials are suitable for the needs of the students of International Study program of Mathematics Education in semester four.	4
2	The developed materials are suitable for the academic context of the students of International Study program of Mathematics Education in semester four.	4
3	The developed materials contain texts which are appropriate with the needs of the students of International Study program of Mathematics Education in semester four.	3
4	The developed materials contain language functions which are appropriate with the academic context of the students of International Study program of Mathematics Education in semester four.	4
5	The texts are suitable with the topic.	3
6	The pictures are suitable with the topic.	3
7	The tables are suitable with the topic.	4
8	The developed materials encourage the students to do interpersonal and transactional communication.	4
9	The developed materials encourage the students to understand the meaning structures and linguistics features of the texts.	4
10	The developed materials lead the students to develop their communication skill accurately and appropriately based on a communicative context.	4
11	The developed materials motivate the students to	4

develop personal, social and academic life skills.	
Mean (χ)	

Table 4.27 shows that the mean value of the appropriateness of the content of unit 2 is 3.7. It is categorized as "Good" due to its position in the interval $3.5 < x \le 3.74$.

b) The Appropriateness of the Language

Table 4.28 shows the analysis of the language appropriateness.

Table 4.28 The Appropriateness of the Language of Unit 2

Item	Statement	Score
Number		
12	The language used is suitable for the English	4
	proficiency of the students of International Study	
	program of Mathematics Education in semester four.	
13	The instructions and explanations in the materials can be	4
	easily understood by the students of International Study	
	program of Mathematics Education in semester four.	
14	The language used in the materials is grammatically	3
	correct.	
15	The spelling is in accordance with the principles of	3
	English grammar.	
16	The choice of words of the materials is in accordance	3
	with the principles of English grammar.	
17	The information in the materials is coherence.	4
18	The information in the materials is cohesive.	4
Mean (χ)		3.6

Table 4.28 shows that the mean value of the appropriateness of the language of unit 2 is 3.6. It is categorized as "Good" due to its position in the interval $3.5 < x \le 3.74$.

c) The Appropriateness of the Presentation

Table 4.29 shows the analysis of the presentation appropriateness.

Table 4.29 The Appropriateness of the Presentation of Unit 2

Item	Statement	Score
Number		
19	The tasks are sequences from the easiest one to the most	4
	difficult one.	
20	The number of the task is balance among the units.	4
21	The tasks are students-centered.	4
22	The tasks encourage the students to participate actively	4
	in the classroom.	
23	The tasks encourage the students to do oral	4
	communication effectively.	
24	The tasks encourage the students to be creative in the	3
	process of learning.	
25	The tasks encourage the students to be responsible in	4
	their own learning process.	
26	The tasks encourage the students to know their success	4
	and lack in the learning and in communicating in	
	English.	
27	The tasks cover evaluation task in order to measure the	3
	students' ability about the materials that they have	
	learned.	
28	The tasks contain vocabulary related to the topic of the	4
	unit.	
29	The tasks consist of guided activities and free-guided	4
	activity	
30	The unit consists of opening activities.	4
31	The unit consists of main activities.	4
32	The unit consists of closing activities.	4
Mean (χ)		

Table 4.29 shows that the mean value of the appropriateness of the presentation of unit 2 is 3.8. It is categorized as "Very Good" due to its position in the interval $3.75 < x \le 4$.

d) The Appropriateness of the Layout

Table 4.30 shows the analysis of the presentation appropriateness.

Table 4.30 The Appropriateness of the Layout of Unit 2

Item	Statement	Score
Number		
33	The design of the materials uses good typography	3
	(Unit title, sub-title, page numbers, illustrations,	
	caption and soon)	
34	The fonts are not too various.	4
35	The fonts are readable.	4
36	The colors used do not disturb the delivery of	3
	information.	
37	The pictures are provided for aesthetic purposes	3
38	The pictures are provided for functional purposes	3
	Mean (χ)	3.3

Table 4.30 shows that the mean value of the appropriateness of the layout of unit 2 is 3.3. It is categorized as "Fair" due to its position in the interval $3.25 < x \le 3.49$.

Finally, the mean value from all aspects of unit 2 is 3.7. It can be concluded that unit 1 is categorized as "Good" since the position of the mean value is in the interval $3.5 \le x \le 3.74$.

2) The Review of Unit 2

From all aspects above, it shows that the developed learning materials are appropriate. However, there are some parts that still need to be revised. In general, the review of unit 2 has the same aspect of revisions as unit 1.

First of all, in term of content, if it is possible, add some texts talking about the topic. Some questions in the comprehension tasks are just too easy for university students. Therefore, it will be better to change the questions into highorder thinking questions.

In term of language, it is better to be careful in using perfect tense. Check whether the perfect tense that are used in instructions do not cause misunderstanding for example "you have learned" is written "you have been learned".

For the presentation, there's no need to do revision. However, in term of lay out, it is better to give more white spaces so the pages in the materials are not too crowded and more pictures to give illustration of the conveyed information.

3) The Revision of Unit 2

In order to improve the quality of the developed learning materials, the experts gave some suggestions and recommendations to revise some aspects of the developed learning materials. Table 4.31 in the following describes the point of revisions of unit 2 and the revisions.

Table 4.31 The Revisions of Unit 2

Parts of the	Point to Revise	Revision	
Unit			
Task 1	-	No revision	
Task 2	1	No revision	
Task 3	1	No revision	
Task 4	1	No revision	
Task 5	1	No revision	
Task 6	It is better to give illustration to add the information that is	One relevant picture to illustrate the information in	
	being talked about in the conversations.		
Task 7	-	No revision	
Task 8	-	-	
Task 9	-	No revision	

Task 10	-	No revision
Task 11	The word <i>some</i> is better	The word <i>some</i> is replaced by
	replaced by word two.	word <i>two</i> .
Task 12	-	No revision
Task 13	-	No revision
Task 14	-	No revision
Task 15	-	No revision
Task 16	-	No revision

c. The Result of the Expert Judgment and Revision Unit 3

1) The Result of the Expert Judgment Unit 3

a) The Appropriateness of the Content

The analysis of the content appropriateness is shown by Table 4.32.

Table 4.32 The Appropriateness of the Content of Unit 3

Item	Statement	Score		
Number				
1	The developed materials are suitable for the needs of the	4		
	students of International Study program of Mathematics			
	Education in semester four.			
2	The developed materials are suitable for the academic	4		
	context of the students of International Study program			
	of Mathematics Education in semester four.			
3	The developed materials contain texts which are	3		
	appropriate with the needs of the students of			
	International Study program of Mathematics Education			
	in semester four.			
4	The developed materials contain language functions	4		
	which are appropriate with the academic context of the			
	students of International Study program of Mathematics			
	Education in semester four.			
5	The texts are suitable with the topic.	3		
6	The pictures are suitable with the topic.	3		
7	The tables are suitable with the topic.	4		
8	The developed materials encourage the students to do	4		
	interpersonal and transactional communication.			
9	The developed materials encourage the students to	4		
	understand the meaning structures and linguistics			
	features of the texts.			
10	The developed materials lead the students to develop	4		

	their communication skill accurately and appropriately		
	based on a communicative context.		
11	The developed materials motivate the students to develop personal, social and academic life skills.	4	
	Mean (χ)	3.7	

Table 4.32 shows that the mean value of the appropriateness of the content of unit 3 is 3.7. It is categorized as "Good" due to its position in the interval $3.5 < x \le 3.74$.

b) The Appropriateness of the Language

Table 4.33 shows the analysis of the language appropriateness.

Table 4.33 The Appropriateness of the Language of Unit 3

Item	Statement	Score
Number		
12	The language used is suitable for the English	4
	proficiency of the students of International Study	
	program of Mathematics Education in semester four.	
13	The instructions and explanations in the materials can be	4
	easily understood by the students of International Study	
	program of Mathematics Education in semester four.	
14	The language used in the materials is grammatically 3	
	correct.	
15	The spelling is in accordance with the principles of	3
	English grammar.	
16	The choice of words of the materials is in accordance	4
	with the principles of English grammar.	
17	The information in the materials is coherence.	4
18	The information in the materials is cohesive.	4
	Mean (χ)	3.7

Table 4.33 shows that the mean value of the appropriateness of the language of unit 3 is 3.7. It is categorized as "Good" due to its position in the interval $3.5 < x \le 3.74$.

c) The Appropriateness of the Presentation

Table 4.34 shows the analysis of the presentation appropriateness.

Table 4.34 The Appropriateness of the Presentation of Unit 3

Item	Statement	Score
Number		
19	The tasks are sequences from the easiest one to the most	4
	difficult one.	
20	The number of the task is balance among the units.	4
21	The tasks are students-centered.	4
22	The tasks encourage the students to participate actively	4
	in the classroom.	
23	The tasks encourage the students to do oral	4
	communication effectively.	
24	The tasks encourage the students to be creative in the	3
	process of learning.	
25	The tasks encourage the students to be responsible in	4
	their own learning process.	
26	The tasks encourage the students to know their success	4
	and lack in the learning and in communicating in	
	English.	
27	The tasks cover evaluation task in order to measure the	3
	students' ability about the materials that they have	
	learned.	
28	The tasks contain vocabulary related to the topic of the	4
	unit.	
29	The tasks consist of guided activities and free-guided	4
	activity	
30	The unit consists of opening activities.	4
31	The unit consists of main activities.	4
32	The unit consists of closing activities.	4
	Mean (χ)	3.8

Table 4.34 shows that the mean value of the appropriateness of the language of unit 3 is 3.8. It is categorized as "Very Good" due to its position in the interval $3.75 < x \le 4$.

d) The Appropriateness of the Layout

Table 4.35 shows the analysis of the presentation appropriateness.

Table 4.35 The Appropriateness of the Layout of Unit 3

Item	Statement	Score
Number		
33	The design of the materials uses good typography	4
	(Unit title, sub-title, page numbers, illustrations,	
	caption and soon)	
34	The fonts are not too various.	4
35	The fonts are readable.	4
36	The colors used do not disturb the delivery of	3
	information.	
37	The pictures are provided for aesthetic purposes	3
38	The pictures are provided for functional purposes	3
	Mean (χ)	3.5

Table 4.35 shows that the mean value of the appropriateness of the language of unit 3 is 3.5. It is categorized as "Good" due to its position in the interval $3.5 < x \le 3.74$.

Finally, the mean value from all aspects of unit 3 is 3.74. It can be concluded that unit 1 is categorized as "Good" since the position of the mean value is in the interval $3.5 < x \le 3.74$.

2) The Review of Unit 3

From all aspects above, it shows that the developed materials are appropriate. However, there are some parts that still need to be revised. In general, the review of unit 3 has the same aspect of revisions as unit 1 and unit 2.

From all aspects above, it shows that the developed learning materials are appropriate. However, there are some parts that still need to be revised. The

suggestions given by the experts to revise the materials are described in the following:

First of all, in term of content, if it is possible, add some texts talking about the topic. Some questions in the comprehension tasks are just too easy for university students. Therefore, it will be better to change the questions into highorder thinking questions.

In term of language, it is better to be careful in using perfect tense. Check whether the perfect tense that are used in instructions do not cause misunderstanding for example "you have learned" is written "you have been learned"

For the presentation, there's no need to do revision. However, in term of lay out, it is better to give more white spaces so the pages in the materials are not too crowded and more pictures to give illustration of the information conveyed.

3) The Revision of Unit 3

In order to improve the quality of the developed learning materials, the experts gave some suggestions and recommendations to revise some aspects of the developed learning materials. Table 4.36 in the following describes the point of revisions of unit 1 and the revisions.

Table 4.36 The Revisions of Unit 3

Parts of the Unit		
Task 1	-	No revision
Task 2	-	No revision
Task 3	-	No revision
Task 4	The word <i>that</i> in the question	The <i>word</i> that was omitted.

	number three needs to be	
	omitted.	
	Revise the questions number 4	The questions were changed.
	to 8 because they are not high-	
	thinking order questions.	
Task 5	Some of expressions are	The expressions of questions,
	needed to be added in the	summarizing a point,
	explanation, such as explaining	introducing and explaining
	visual aids.	visual aids, highlighting visual
		aids and inviting questions
		were added to the explanations.
Task 6	-	No revision.
Task 7	-	No revision.
Task 8	-	No revision
Task 9	Activity related to gerund is	The activity was changed into
	better contextualized with the	short conversation in the Q&A
	topic of the units and	section in a presentation in
	expressions in the unit.	which the speakers in the
		conversation discussed about
		solutions in differential
		equations.
Task 10	The question number 1 is	The question number 1 was
	better to be omitted.	omitted.
Task 11	-	No revision
Task 12	-	No revision
Task 13	It is better to change the word	The word apply was changed
	apply with use.	with <i>use</i> .
Task 14	Omit been in the instruction	The word <i>been</i> was omitted.
	because it causes different	
	meaning.	
	It is better to change the word	The word apply was changed
	apply with use.	with use.
Task 15	-	No revision
Task 16	Omit been in the instruction	The word <i>been</i> was omitted.
	because it causes different	
	meaning.	

6. The Final Draft of the Materials

The final draft of the materials had the same outline as the first draft. The final draft was developed based on the suggestions and comments of the first draft of the materials from the expert. The final draft can be seen in the Appendix G.

B. Discussion

As product-based research, this research aims to develop appropriate speaking learning materials for English tutorial program for the intermediate level students of International Mathematics Education Study Program. The result of this research is appropriate speaking learning materials for English tutorial program for the intermediate level students of International Mathematics Education Study Program.

The English tutorial program is an English course which is based on the students' needs and wants. Therefore, the first step before developing the materials was conducting needs analysis. According to Graves (2000:98), needs analysis is a systematic and ongoing process of gathering information about the needs and preferences of students. The needs analysis was conducted in order to figure out the students target needs and learning needs.

Basturkmen (2010) states that needs analysis is the key component of English for Specific Purposes. Therefore, ESP approach is applied in this research. Based on Hutchinson and Water (1987:19), ESP is an approach to language teaching which is based on learner's need. The similar idea is stated by Basturkmen (2010:3) that ESP concerns on analysis of learners' needs.

The needs analysis was conducted by distributing questionnaire to the students. The needs analysis questionnaire consisted a number of questions which aimed to find out the students' target needs and learning needs. Target needs is the needs which is related to the target situation that is demanded or wanted. Target needs consists of three components which are necessities, lacks and wants. Nation

and Macalister (2010:24) define that necessity is something that is necessary for the students' use of language. While, lacks is related to the gap of the students' knowledge between the knowledge that they already have and the knowledge they do not know yet related to target situation. Furthermore, wants, according to Nation and Macalister (2010) refers to what the learners wish to learn.

On the other hand, learning needs is related to what the learners need to do in order to learn (Hutchinson and Waters, 2010). Learning needs commonly contains six elements such as goal, input, procedure, setting, learners' role and teachers' role. Those components are similar to component of a task. Nunan (2004: 40) states that a task has those six elements.

According to Graves (2000: 104), goal is related to the reasons and expectation of the students in the learning. Input, according to Nunan (2004: 41) refers to data that learners work with in completing a task. Procedure is related to what the students should do with the task. Setting is related to the design of the task whether the task should be carry out in group, pairs or individual. Learners' role is related to the role of learners in the classroom. Finally, the teachers' role concerns with the role of teacher during the process of teaching and learning inside the class.

The results of the needs analysis showed the students' goals in joining the English tutorial program. In term of short-term goal, by joining the English tutorial program the students wanted to improve their speaking ability in order to be able to communicate in English in the classroom during the teaching and learning process, while regarding to their long-term goal, the students wanted to

improve their speaking ability because the wanted to continue their study in the post- graduate program and to do job interview. In addition to the goal, the students expected that the English tutorial program could help them in mastering vocabulary related to their study program in order to understand spoken and written texts. Therefore, this research developed the English speaking learning materials for them in term of academic purposes.

In term of input, the students wanted to have monologue or dialogue with 200-250 words lengths, so that the input given were in the form of conversations or monologue such as presentation. Moreover, the topics that the students wanted to discuss in the units are integers, quadrilaterals and algebra. Therefore, in the implementation, those topics are used in the units of the developed materials.

Students' preference regarding the learning procedure is summarized as follow. The students preferred to do speaking activities like topic discussion in group, practice dialogue in pairs and games. Therefore in the implementation, the activities are set up in group and pairs.

Instead of the main learning activity for speaking, in the materials the students would be provided with activities which aimed to enrich their vocabulary mastery, grammar and pronunciation. Regarding to the learning activity to study vocabulary, the students preferred to do activities like guessing meaning from the context, complete blank spaces in the paragraph with provided words and/or their own words and identify parts of speech. While in learning grammar, students chose three activities such as identify mistakes in sentences and correct them, create sentences using the learned pattern of grammar, and complete paragraph

with grammatically correct sentences. Finally, in learning pronunciation, the students wanted that particular vocabulary is given pronunciation transcription so that they can practice to pronounce the words correctly.

In term of setting, it was found out that the student preferred to have activity in pair and small group. Therefore, many of the activities were set up in pairs and small group.

Other considerations of learning needs are the role of learners and teachers in the process of learning. The result of the needs analysis in term of learners' role and teachers' role are summarized as follow. In carrying out the activity, the students wanted to play passive role like listening to the tutor's explanations and doing his/her instructions and active role like participating actively in the discussions activity and sharing opinions with their classmates and tutor. Regarding to the teachers' role, the students preferred to have tutor as resource who acted as knowledge and information source who gives them examples before they practice the task, assessor who provided feedback and correction and graded them in various ways and prompter who encouraged them to think creatively by giving clues.

The next step after conducting needs analysis was writing course grids. Course grid is a plan showing what to learn and how to learn in a unit. The course grids of the developed materials in this research contained some elements such as name of the course which was English tutorial program, program of expertise which was Mathematics Education of International Study Program, competence which was communicating in English at intermediate level, unit number, unit title,

topic, indicators, language function, language focus, procedures, and input. Moreover, language focus consisted of two aspects which were vocabulary and grammar.

The further description of the course grids is summarized as follow. The unit number indicated the number of the unit in the developed materials. Unit title contained the title of the unit in the developed materials in which the title represented the language function and the topic in each unit. Indicators contained the learning objectives which are wanted to achieve in each of the unit of the developed materials. Language functions and language focus contained expressions, vocabulary and grammar which were going to learn and discuss in the unit of the materials. The sequence of activities in the units was written in the procedure. Finally, input part contained what kinds of input that were going to use in the activities.

The course grids were then used to develop speaking learning materials. The developed materials consisted three units in which each of them contained different topic, language function and language focus to learn. However, the design of the units has similar pattern. Each unit consisted three main parts which were introduction, main lesson and reinforcement.

The main parts of the units can be described as follows. The introduction part consisted of unit title and learning objectives. The second part of the unit which was main lesson contained the sequence of activities which were divided into three elements: Let's Get Ready, Let's Take Action and Let's Do More. Let's Get Ready served as the pre-task, while Let's Take Action served as practice task

which contained listening task, speaking tasks, language focus tasks and games. The last part of the main lesson was Let's Do More that served as production task. In term of reinforcement, it covered Evaluation, Homework, Let's Make Reflection, Summary and Vocabulary.

As it has mentioned in the previous paragraph that each unit of the developed materials has the same pattern, the brief descriptions of each unit are summarized in the following paragraphs.

Unit 1 of the developed materials entitled "In my opinions, integer is an interesting topic". It contained 15 tasks in which the tasks were divided into three cycles: pre-task, practice-task, and production task. In this unit students were encouraged to learn expressions of asking and giving opinions and adjectives. In the activity the students were required to use them while discussing the topic which was integer.

Unit 2 of the developed materials entitles "We could find articles on quadrilaterals in the library. This unit contained 16 tasks in which the tasks were also divided into three cycles which are pre-task, practice-task, and production task. In this unit, the students were encouraged to learn the expressions of asking and giving suggestions and modal auxiliaries related to asking and giving suggestions. The topic of this unit was quadrilaterals.

Finally, the last unit of the developed materials which was unit 3 entitled "What I'd Like to Present to You Today is Linear Algebra". This unit encouraged students how to present a topic using appropriate expressions for presentation and how to make generalization. In this unit the students also learned about gerund

and use gerund in a presentation and conversations. The topics that were being discussed in this unit are algebra and its-subtopics. In addition, this unit contained 16 tasks in which the tasks are divided into three cycles as well which are pre-task, practice-task, and production task.

After finishing writing the first draft of the materials, the next step was evaluating the materials. Material evaluation was done by distributing materials evaluation or expert judgment questionnaire to the expert. The expert judgment questionnaire was adapted from "Instrumen Penilaian Coursebook Bahasa Inggris" from BSNP (2007). The questionnaire covered four aspects which were the appropriateness of the content, language, presentation and layout. The results of the expert judgment were then used to revise the first draft and develop the final draft of the materials.

Based on the research finding regarding to the target needs and learning needs of the students and the result of the expert judgment, the English speaking learning materials developed in this research was considered appropriate to be used for speaking learning materials for English tutorial program for the intermediate level students of International Mathematics Education Study Program.

CHAPTER V

CONCLUSIONS AND SUGGESTIONS

This research has two main aims, the first is to identify the target and learning needs of the students of International Mathematics Education Study Program n and the second is to develop appropriate English speaking learning materials for English tutorial program for the students of International Mathematics Education Study Program. This chapter contains the conclusions and suggestions derived from this research.

A. Conclusions

1. The Target Needs

In terms of necessities, for now, the students need speaking ability in English in order to to be able to do learning activity effectively in the lecturing sessions. While in the future, the students need speaking ability in English because they want to continue their study to post-graduate program and to do job interview. In order to improve their speaking ability in term of academic context, the students want to have activities which require them to use expressions of asking and giving opinions, suggestions, making generalization and expressions for presentations. Based on their preferences, clear pronunciation, a wide range vocabulary mastery, and grammatical accuracy are elements that are considered as important elements in speaking.

In terms of lacks, the English proficiency of the students are considered to be low-intermediate. In addition, most of the students have mastered English vocabulary related to Mathematics more or less 100-500 words.

Lastly, in terms of wants, the students want that the learning process in the English tutorials program will help them to be able to speak English more fluently and accurately.

2. The Learning Needs

In term of materials input, the students want to have monologue or dialogue discussing integers, quadrilaterals, algebra, and triangles with 200-250 words length.

In the materials, the students want to have activities like topic discussion in group and pairs, practicing dialogue in pairs and games for the speaking activities. In term of learning activities for improving their vocabulary mastery, the students want to have activity such as guessing meaning from the contexts, completing blank spaces in the paragraph with the provided words and/or their own words and identify parts of speech. In order to improve their mastery of grammar, the students want to have activities like identifying mistakes in sentences and correcting them, creating sentences using the learned pattern, and completing paragraph with grammatically correct sentences. While in order to improve their mastery of pronunciation, the students prefer to have particular vocabulary with their pronunciation transcription and pronounce the words that have been given

pronunciation transcription. Most the activities are set up in pairs and small group because the students prefer to have learning activities in those kinds of setting.

In carrying out the activities the students want to have two roles. First, they want to listen to the tutor's explanations and do his/her instructions. Second, they want to participate actively in discussion activity, share their ideas and opinions with their classmates and tutor about particular topic. On the other hands, the students prefer that the teacher or tutor acts as recourse, assessor, and prompter in the process of learning.

3. The Characteristics of Appropriate English Speaking Learning Materials for English Tutorial Program for the Students of International Mathematics Education Study Program

Appropriate speaking learning materials have the following components:

a. Introduction.

Introduction consists of two elements: unit title and learning objectives.

1) Unit title

Unit title is written based on the topic and language functions that are going to learn in the unit.

2) Learning objectives

The learning objectives can be written explicitly or implicitly. The learning objectives are written based on the learning goals that are wanted to achieve in the unit.

b. Main Lesson

Main lesson consists of three elements: let's get ready, let's take action, and let's do more.

1) Let's Get Ready

Let's Get Ready contains warm-up tasks which are used to introduce topic and language function that are going to learn in the unit and to brainstormed the students previous knowledge about the topic and the language functions.

2) Let's Take Action

Let's Take Action contains practice tasks which are divided into guidetask and semi guided task. Those task covers listening task, speaking task and language functions tasks.

3) Let's Do More

Let's Do More contains production task. The task has less scaffolding in which the students are provide with some topics only.

c. Reinforcement

Reinforcement consists of five elements: evaluation, homework, let's make reflections, summary and vocabulary list.

- Evaluation. Evaluation task is free-guided task which aims to measure the students' ability after learning the unit.
- 2) Homework. It contains a real-world task which requires students to use language functions they have learned in the class outside the class.
- 3) Let's Make Reflections. This aims to provide reflection space for the students about themselves by doing self-reflection and peer-assessment.

- 4) Summary. It aims to provide summary about language functions and grammar that the students have learned in the unit.
- 5) Vocabulary list. It is provided in order to give the students review of the vocabulary that they meet in the unit. The vocabulary list covers the English words, parts of speech, pronunciation transcription, and Indonesian equivalent.

B. Suggestions

The suggestions are proposed for the English teacher or tutor and the other materials developers.

1. To English Teacher or Tutor.

Students in some particular majors need to be facilitated appropriately in their learning in accordance to their majors. In order to have effective English learning process, English teacher should provide them with appropriate learning materials which are relevant to their needs. Therefore teacher or tutor should be encouraged to develop materials for their students. There are many things that should be considered before developing materials for the students.

My suggestion for English teacher or tutor, firstly, is that the content of the materials should be relevant to the students' needs, major. In this matter, relevant input is an important element that should be considered in developing materials. The input should contain texts, language function and topic that are going to discus in the materials.

Secondly, the language of the materials should be appropriate for the students' cognitive development and level proficiency. Therefore, some simplification or adoptions of input are possibly needed in order to adjust the input to suit the students' level of proficiency.

Lastly, the activities in the learning materials should be organized and graded systematically. Teacher can employ the most suitable approach in sequencing the activities in order to achieve the objectives of the learning. Moreover, the layout of the materials should be interesting so that the students will be motivated in their learning.

2. To the Other Materials Developers

In developing materials there are some aspects that should be taken into consideration.

My first suggestion is that materials should be appropriate with the students' needs, major and level of proficiency. The topic and the input of the materials should be relevant for their major and their proficiency level. The learning procedure should lead the students in achieving their goals in their learning. Therefore, observation and needs analysis should be conducted before developing appropriate materials for students in order to indentify the students target needs and learning needs as needs analysis is an important element in material development.

Lastly, my suggestion is that in order to develop materials which are relevant to the students, the materials should fulfill four aspects of appropriateness namely appropriateness of the content, the language, the presentation and lay-out. Therefore, the developed materials need to be evaluated by materials experts in order to determine whether the materials are appropriate or not for the students from the view of those aspects of appropriateness.

REFERENCES

- Basturkmen, Helen. 2010. Developing Courses in English for Specific Purposes. Hampshire: Palgrave MacMillan
- Branden, Kris Van den (Ed). 2006. *Task-Based language Education: From Theory to Practice*. Cambridge: Cambridge University Press.
- Brown, H. Douglas. 2001. Teaching by Principles: An Interactive Approach to Language Pedagogy 2nd Edition. New York: Longman
- ______. 2004. Language Assessment: Principles and Classroom Practice. New York: Pearson Education,Inc.
- Brunton, Mike. 2009. An Account of ESP- with Possible Future Directions. English for Specific Issues 3 (24) Volume 8. Retrieved from www.esp-world.info at July, 06, 2014.
- Gall, Meredith. D., Gall, Joyce. P., and Borg, Walter. R. 2003. Educational *Research: An Introduction (7th ed.)*. Boston: Allyn and Bacon.
- Graves, Kathleen. 2000. *Designing Language Courses: A guide for Teachers*. Canada: Heinle & Heinle Publisher.
- Harmer, Jeremy. 2001. The Practice of English Language Teaching. Essex: Longman
- Hutchinson, Tom and Waters, Alan. 1987. *English for Specific Purposes*. Victoria: Cambridge University Press.
- Jong. Nel de and Perfetti. Charles A. 2011. Fluency Training in the ESL Classroom: An Experimental Study of Fluency Development and Proceduralization. *Journal of Research in Language Studies*. Doi: 10.1111/j.1467-9922.2010.00620.x. Retrieved from ww.pit.edu at October, 04, 2013 at 11:39.
- Knight, Kevin., Lomperis, Anne. E., Naerssen, Margaret van., Westerfield, Kay. 2010. English for Specific Purposes: *An Overview for Practitioners and Clients (Academic & Corporate)*. Retrieved from http://communitytesol.org. at June, 06, 2013 at 06.30.
- Levin, Henry. M. 2006. What is a World Class University? *Conference of the Comparative & International Education Society*. Retrieved from www.tc. Columbia.edu at 11 May 2014 at 09:03.

- Levine, David, M., and Stephen, David.F. 2010. Even You Can Learn Statistics (2nd ed). New Jersey: Pearson Education, Inc.
- Louma, Sari. 2004. Assessing Speaking. Cambridge: Cambridge University Press.
- Marsigit. 2009. Universitas Negeri Yogyakarta Menuju Perguruan Tinggi Bertaraf International. Yogyakarta: UNY. Retrieved from staff.uny.ac.id at 11 May 2014 at 09:03.
- Nation, Paul. 1989. Improving Speaking Fluency. *System*. Vol.17 No.3 page 377-384. Retrieved from www.victoria.ac.nz at October, 04, 2013 at 11:39.
- Nation, Paul and Newton, Jonathan. 2009. *Teaching ESL/EFL Listening and Speaking*. New York: Rutledge.
- Nation, Paul and Macalister, John. 2010. *Language Curriculum Design*. New York: Rutledge.
- Nunan, David. 1989. *Designing Tasks for the Communicative Classroom*. Cambridge: Cambridge University Press.
- ______. 1999. Second Language Teaching & Learning. Massachusetts. Heinle & Heinle Publisers.
- ______. 2004. *Task-Based Language Teaching*. New York: Cambridge University Press.
- Perera, Rafael., Heneghan, Carl., and Badenoch, Douglas. 2008. *Statistics Toolkit*. Massachusetts: Blackwell Publishing.
- Pollard, Lucy. 2008. Lucy Pollard's Guide to Teaching English.
- Richard, Jack. C. and Rodgers, Theodore. S. 2001. *Approaches and Methods in Language Teaching 2nd Edition*. Cambridge: Cambridge University Press.
- Richard, Jack. C, 2001. *Curriculum Development in Language Teaching*. New York: Cambridge University Press.
- Suharto, G. 2006. *Pengukuran Hasil Belajar Bahasa Inggris*. Yogyakarta: P3B, UNY.
- Tomlinson, Brian (Ed). 1998. *Materials Development in Language Teaching*. Melbourne: Cambridge University Press.
- _____ (Ed). 2008. *English Language Learning Materials*. New York: Continuum International Publishing Group

______. 2012. Materials Development for Language Learning and Teaching. *Cambridge Journals*. doi: 10.1017/S0261444811000528. Retrieved from http://journals.cambridge.org at March, 20, 2013 at 20:39



JURUSAN PENDIDIKAN BAHASA INGGRIS FAKULTAS BAHASA DAN SENI UNIVERSITAS NEGERI YOGYAKARTA

Alamat : Karangmalang, Caturtunggal, Depok, Sleman, Yogyakarta 55281

Kepada

Mahasiswa Program Studi International Pendidikan Matematika Di Universitas Negeri Yogyakarta

Sehubungan dengan dilaksanakannya penelitian tentang pengembangan materi belajar bahasa Inggris untuk kegiatan *English tutorial program* untuk mahasiswa Program Studi International Pendidikan Matematika, saya mengharapkan kesediaan Anda untuk meluangkan waktu mengisi kuesioner ini.

Kuesioner ini bertujuan untuk mengetahui kebutuhan belajar Bahasa Inggris Anda sebagai pertimbangan dalam mengembangkan materi English tutorial program untuk mahasiswa Program Studi Internasional TANPA bermaksud untuk menguji atau menilai Anda.

Demi tercapainya tujuan dari kuesioner ini, Anda dimohon memilih jawaban dan/atau menuliskan informasi dengan jujur dan sebenar-benarnya sesuai dengan keadaan Anda saat ini. Semua jawaban yang diisikan dalam lembar kuesioner ini benar-benar hanya untuk kepentingan penyusunan materi untuk kegiatan English tutorial program. Jawaban dan identitas Anda akan kami jaga kerahasiaannya sesuai dengan kode etik penelitian.

Terima kasih atas kesediaan Anda meluangkan waktu untuk mengisi kuesioner ini.

Yogyakarta, Oktober 2013

Peneliti,

Mahasiswa Jurusan Pendidikan Bahasa Inggris

UNY

Titi Nawangsari

NIM. 09202241053

1	Doto	Dribo	i.	Siswa
١.	Dala	Prina	(H	DISWA

Jenis Kelamin	: L / P (lingkari yang sesuai)
Umur	:
(Boien mank ansi)	•
Nama (Boleh tidak diisi)	•
Isilah data diri Anda sesuai de	engan format sebagai berikut.

2. Kebutuhan Belajar Siswa

Pilihlah jawaban dengan memberi tanda silang (X) pada huruf a, b, c, d, dan/atau seterusnya pada jawaban yang Anda pilih. Apabila Anda memiliki jawaban yang berbeda dan tidak terdapat dalam pilihan jawaban dalam kuisioner ini, Anda diperkenankan menuliskan jawaban atau informasi yang sesuai dengan keadaan yang paling menggambarkan diri Anda saat ini. Anda boleh memilih jawaban **lebih dari satu** untuk setiap pertanyaan.

- Pada saat ini, saya membutuhkan keterampilan speaking dalam bahasa Inggris ini adalah untuk....
 - a. Untuk dapat melakukan aktivitas pembelajaran secara effektif dalam perkuliahan.
 - b. Untuk berkomunikasi dengan dosen.
 - c. Untuk berkomunikasi dengan teman.
 - d. Untuk berkomunikasi dengan turis asing.
 - e. Lainnya_____
- 2. Pada saat yang akan datang, saya membutuhkan keterampilan *speaking* dalam bahasa Inggris adalah untuk....
 - a. Untuk melanjutkan pendidikan ke program pascasarjan.
 - b. Untuk melanjutkan pendidikan di luar negeri
 - c. Untuk wawancara kerja
 - d. Untuk berkomunikasi dengan rekan kerja
 - e. Untuk keperluan pekerjaan seperti presentasi, dll.
 - f. Lainnya
- 3. Menurut saya, ungkapan-ungkapan (*language functions*) yang saya butuhkan untuk meningkatkan ketrampilan *speaking* dalam konteks akademik yaitu....
 - a. Menanyakan pendapat seseorang (asking for someone's opinion)
 - b. Menyampaikan pendapat (saying you have opinion)
 - c. Menanyakan keterangan (asking for explanation)
 - d. Memberikan keterangan (giving explanation)
 - e. Menyatakan Anda setuju (agreeing)
 - f. Menyatakan Anda tidak setuju (disagreeing)
 - g. Mendeskripsikan konsep (describing concepts)
 - h. Menyampaikan saran (*suggesting*)
 - i. Membantah (arguing)

- j. Membuat kesimpulan (making generalizations)
- k. Lainnya

- 4. Menurut saya, element yang paling penting dalam *speaking* adalah....
 - a. Kelancaran (*fluency*).
 - b. Pengucapan yang jelas (clear pronunciation).
 - c. Pengetahuan kosakata yang luas (a wide range of vocabulary).
 - d. Penggunaan tatabahasa yang tepat (grammatical accuracy).
 - e. Kepercayaan diri (confidence).
 - f. Lainnya
- 5. Selama ini, kemampuan bahasa Inggris saya secara umum adalah....
 - a. Saya sama sekali tidak bisa berkomunikasi secara lisan dalam bahasa Inggris.
 - b. Saya sedikit mengalami kesulitan memahami orang berbicara dalam bahasa Inggris dalam berbagai situasi dengan menggunakan berbagai topik.
 - c. Saya dapat berbicara dalam bahasa Inggris dalam situasi dan topik yang saya kuasai walaupun masih membuat banyak kesalahan.
 - d. Saya bisa berbicara dalam bahasa Inggris dalam berbagai situasi dengan menggunakan berbagai topik walaupun masih membuat kesalahan.
 - e. Saya bisa menanggapi/merespon berbicara dalam bahasa Inggris ketika orang lain berbicara dengan saya dalam bahasa Inggris.
 - f. Saya bisa memahami orang berbicara dalam bahasa Inggris dalam berbagai situasi dengan berbagai topik dengan baik, lancar, dan berterima.
- 6. Dalam berkomunikasi lisan dalam Bahasa Inggris, saya sering mengalami kesulitan ketika.....
 - a. Menemukan kosakata yang tepat pada kalimat yang akan saya ucapkan.
 - b. Mengekpresikan ungkapan-ungkapan tertentu.
 - c. Mengucapkan kosa kata dengan pengucapan yang tepat.
 - d. Menghafalkan rumus seperti pada tenses.
 - e. Menerapkan tata bahasa seperti tenses dalam kalimat yang akan saya ucapkan.
 - f. Memahami istilah-istilah tertentu terutama istilah-istilah dalam matematika.
 - g. Lainnya
- 7. Jumlah kosa kata bahasa Inggris dalam dunia Matematika yang sudah saya mengerti adalah....
 - a. < 100 kosa kata.
 - b. 100-500 kosa kata.
 - c. 500 1000 kosa kata.
 - d. > 1000 kosa kata.

- 8. Secara umum, saya menginginkan pembelajaran bahasa Inggris pada kegiatan *English tutoria*l program yang menjadikan saya....
 - a. Mampu berkomukasi dalam bahasa Inggris dengan lebih lancer.
 - b. Mampu berkomunikasi dalam bahasa Inggris dengan grammar yang tepat.
 - c. Mampu bahan ajar dalam perkuliahan dengan lebih baik.
 - d. Lainnya_
- 9. Tujuan saya mengikuti kegiatan *English tutorial program* dalam konteks akademik yaitu.....
 - a. Untuk menjadikan saya mampu menguasai kosakata bahasa Inggris yang berkaitan dengan program studi saya untuk bisa memahami teks lisan dan tertulis.
 - b. Untuk menjadikan saya mampu menguasai kosakata bahasa Inggris yang berkaitan dengan program studi saya dan menggunakannya untuk berkomukasi secara lisan.
 - c. Untuk menjadikan saya mampu menguasai penggunaan tatabahasa dengan baik dan berterima baik secara lisan untuk berkomukasi dengan dosen dan teman selama proses perkuliahan.
 - d. Untuk menjadikan saya mampu menggunakan dan merespon ungkapan (ekspresi) yang banyak digunakan dalam konteks akademik dengan baik dan berterima.
 - e. Lainnya_____
- 10. Topik yang ingin saya cakup dalam materi bahasa Inggris untuk kegiatan *English tutorial program* dalam konteks akademik yaitu....(Pilih dan/atau 3 topik)
 - a. Bilangan bulat (Integers)
 - b. Pecahan (Fraction)
 - c. Notasi bilangan (*Notation*)
 - d. Persamaan (liner Linear equation)
 - e. Himpunan (Set and number of a set)
 - f. Ouadrilateral
 - g. Garis dan sudut (Lines and Angles)
 - h. Segitiga (Triangles)
 - i. Lingkaran (Circles)
 - j. Aljabar (*Algebra*)
 - k. Dalil Pitagoras (*Pythagorean theorem*)
 - 1. Lainnya
- 11. Input pembelajaran pada materi bahasa Inggris untuk kegiatan *English tutorial program* yang saya inginkan berupa....
 - a. Model monolog/dialog
 - b. Model monolg atau dilog singkat yang dipraktekan dalam kelas
 - c. Materi otentik yang dijumpai dalam keharian (seperti berita, film, lagu, dll)
 - d. Lainnya____

10	
12.	Panjang input pembelajaran pada materi bahasa Inggris untuk kegiatan English tutorial
	program yang saya ingikan berjumlah
	a. 150- 200 kata
	b. 200-250 kata
	c. 250-300 kata
	d. > 300 kata
13.	Kegiatan belajar yang saya inginkan dalam English tutorial program untuk meningkatkan

- keterampilan *speaking* Anda dalam konteks akademik adalah.....
 - Mendiskusikan topik tertentu secara berpasangan (topic discussionin in pairs)
 - Mendiskusikan topik tertentu secara berkelompok (topic discussionin in group)
 - c. Presentasi (presentation)
 - d. Mempraktekan dialog secara berpasangan.
 - e. Bermain peran (role play)
 - Bermain games
 - Lainnya_
- 14. Dalam mempelajari kosakata bahasa Inggris (vocabulary), dalam kegiatan belajar mengajar pada kegiatan English tutorial program saya lebih suka jika.....
 - a. Mengartikan kata berdasarkan konteks
 - b. Melengkapi paragraf dengan kata-kata yang disediakan
 - c. Melengkapi paragraf dengan kata-kata sendiri
 - d. Mengindentifikasi kata-kata dalam teks
 - e. Lainnya-

- 15. Dalam mempelajari tata bahasa Inggris (grammar), dalam kegiatan belajar mengajar pada kegiatan English tutorial program saya lebih suka jika.....
 - a. Mengidentifikasi dan membenarkan kesalahan pada struktur kalimat
 - b. Menuliskan atau kalimat berdasarkan pola yang dipelajari
 - c. Melengkapi paragraf dengan bentuk tata bahasa yang tepat
 - d. Lainnya-

- 16. Dalam mempelajari pengucapan kata dalam bahasa Inggris (pronunciation), dalam kegiatan belajar mengajar pada kegiatan English tutorial program saya lebih suka jika....
 - a. Menirukan ucapan tutor dengan keras
 - b. Diberikan *phonetic transcription* pada kata- kata tertentu.
 - Berlatih mengucapkan kata-kata yang diberi phonetic transcription.
 - d. Lainnya

- 17. Dalam process pembelajaran berbicara (*speaking*) aktifitas yang diberikan sebaikya dilakukan secara....
 - a. Individu
 - b. Berpasangan (2 orang)
 - c. Group kecil (anggota 3-4 orang)
 - d. Group besar (anggota 5 orang atau lebih)
 - e. Lain-lain-

- 18. Peran Anda ketika melakukan aktivitas *speaking* dalam kegiatan *English tutorial program* sebaiknya....
 - a. Mendengarkan penjelasan tutor dan mencatatnya
 - b. Mendengarkan penjelasan tutor dan melaksanakan instruksi yang diberikan tutor
 - c. Berpartispasi aktif dalam diskusi dan tukar pendapat dengan guru dan siswa lainnya mengenai masalah/topik tertentu.
 - d. Berlatih sendiri dalam suasana kelas yang tenang
 - e. Lainnya_____
- 19. Peran tutor yang baik dalam mendampingi Anda melakukan aktivitas *speaking* dalam kegiatan *English tutorial program* sebaiknya....
 - a. Tutor sebagai sumber informasi dan memberikan contoh sebelum meminta Anda berlatih (*resource*).
 - b. Tutor mengorganisir Anda untuk melakukan berbagai aktivitas (*organizer*).
 - c. Tutor mendorong Anda untuk berfikir secra kreatif dengan memberikan kata kunci (prompter)
 - d. Tutor mengamati aktivitas Anda didalam kelas dan memberikan *feedback* seacara individu atau berkelompok (*observer*).
 - e. Tutor mengontrol seluruh aktifitas Anda di dalam kelas (controller).
 - f. Tutor memberikan *feedback* dan koreksi terhadap kesalahan Anda (*assessor*).
 - g. Lainnya_____

Terimakasih

DATA TABULATION OF THE NEEDS ANALYSIS

Itam			F THE NEEDS ANA	N	f	Domontogo
Item No	Aspects	Question	Answer	N	1	Percentage (%)
A.	. Target Needs					1
1	1. Necessities	Right now, I need speaking skill in English in order	a. to be able to do learning activity effectively in the lecturing sessions.	12	11	91.7
			b. to be able to communicate with lecturers	12	6	50
			c. to be able to communicate with friends	12	8	66.7
			d. to be able to communicate with foreign tourists	12	5	41.7
			e. others	12	2	16.7
2		In the future, I need speaking skill in English in order to	a. to continue study to post- graduate.	12	11	91.7
			b. to study abroad.	12	10	83.3
			c. to do job interview.	12	11	91.7
			d. to communicate with colleague.	12	9	75
			e. to do job such as do presentation.	12	10	83.3
			f. others	12	0	0
3		In my opinions, language functions or expressions that	a. asking for someone's opinions.	12	11	91.7
		I will occasionally need in order to	b. saying you have opinions	12	10	83.3
		improve my speaking skill in	c. asking for explanations	12	6	50
		terms of academic context is/are	d. giving explanations	12	9	75
			e. agreeing	12	9	75
			f. disagreeing	12	10	83.3
			g. describing concepts	12	10	83.3

			1	10	1.1	01.7
			h. suggesting	12	11	91.7
			i. arguing	12	6	50
			j. making	12	11	91.7
			generalizations			
			k. others	0	0	0
4		In my opinion, the	a. fluency	12	9	75
		important	b. clear	12	10	83.3
		element/s in	pronunciation			
		speaking is/are	c. a wide range of	12	10	83.3
			vocabulary	1.0	1.0	00.0
			d. grammatical	12	10	83.3
			accuracy	10		7.5
			e. confidence	12	9	75
		T 1	f. others	12	0	0
5	2. Lacks	In general, my	a. I cannot	12	0	0
		English	communicate			
		proficiency is	orally in			
			English b. I find it a little	12	3	25
			bit difficult to	12	3	23
			understand			
			when somebody			
			talks to me in			
			English and			
			using various			
			topics.			
			c. I can speak in	12	5	41.7
			English and use			1 - 1 / 1
			topics that I			
			have known but			
			make many			
			mistakes.			
			d. I can speak in	12	4	33.3
			English in			
			various			
			situations and			
			topics but I still			
			make mistakes.	, -	<u> </u>	
			e. I can respond in	12	4	33.3
			English when			
			somebody talks			
			to me in			
			English.	10	1	0.2
			f. I have no	12	1	8.3
			problems in understanding			
			what people say			
			in English in			
			various to topics			
			various to topics			

	T		1 4 5	1 _	T-0.0		
6	In communicating	a. find appropriate	12	7	58.3		
	orally in English, I	words for the					
	find it difficult	sentences that I					
	when I have to	am going to say.					
		b. express	12	6	50		
		particular					
		expressions or					
		language					
		functions.					
		c. pronounce the	12	4	33.3		
		words correctly.	4.0				
		d. memorize	12	4	33.3		
		formulas such					
		as tenses.					
		e. apply grammar	12	8	66.7		
		to the sentences					
		that I am going					
		to say.	1.0	7	50.2		
		f. understand	12	7	58.3		
		particular terms					
		in Mathematics.	1.0				
	T 1 C	g. others	12	0	0		
7	The number of	a. <100 words		2	16.7		
	English	1 100 500 1	10		7.5		
	vocabulary related to Mathematics	b. 100-500 words.	12	9	75		
	that I have	c. 500-100 words	12	0	0		
	mastered are	d. >1000 words	12	1	8.3		
8 3. Wants	In general, I want	a. to be able to	12	10	83.3		
o 3. wants	that the learning	speak English	12	10	03.3		
	process in the	more fluently.					
	English tutorial	b. to be able to	12	10	83.3		
	program will help	speak English	12	10	03.3		
	me	accurately.					
		c. to be able to	12	7	58.3		
		understand the	1-				
		lectures'					
		handouts better.					
		d. others	12	0	0		
B. Learning Needs							
9 Goal	My goal in	a. to help me to be	12	10	83.3		
	participating in the	able to master					
	English tutorial	vocabulary					
	program in terms	related to my					
	of academic	study program,					
	context is/are	in order to					
		understand					
		spoken and					
1 1		written texts.		1	i		

			b.	to help me to be able to master vocabulary related to my study program and use them in oral communication to help me to be able to master grammar and	12	5	41.7
			d	apply them in oral communication with friends and lecturers inside the classroom.	12	7	58.3
				able to respond somebody using appropriate expressions or language functions.	12	0	0
10	T4	The tenies that I	e.	others		7	
10	Input	The topics that I want to cover in		integers. fraction.	12 12	5	58.3
		the English	c.	•	12	6	50
		materials for the		linear equation.	12	6	50
		English tutorial	e.		12	6	50
		program in term of	C.	of a set.	12		
		academic context	f.		12	7	58.3
		are		line and angles.	12	4	33.3
			_	triangles.	12	7	58.3
			i.	circles.	12	6	50
			j.	algebra.	12	7	58.3
			k.	Pythagorean	12	3	25
			1	Theorem.	10	2	167
11		Lagraina inquita in	l.	others	12 12	10	16.7 83.3
11		Learning inputs in the English	a.	monologue/dial ogue.	12	10	03.3
		materials for English tutorial program activities that I want are in the form of		short monologue/dial ogue that is/are performed in front of class	12	9	75
			c.	authentic materials such as news, movie	12	5	41.7

			clips, song, etc.			
			d. others	12	0	0
12		The type of inputs	a. 150-200 words.	12	3	25
14		that I am suppose	b. 200-250 words	12	7	58.3
		to have contains	c. 250-300 words	12	2	16.7
		to have contains	d. > 300 words	12	0	0
13	Procedure	L corning activity		12	8	66.7
13	Frocedure	Learning activity that I want to have	a. topic discussion in pairs.	12	0	00.7
		in the process of	b. topic discussion	12	9	75
	learning in the	in group.	12		13	
		English tutorial	c. presentation.	12	8	66.7
		program in order	d. practice dialog	12	9	75
	_	to improve my	in pairs.	12		13
		speaking ability in	e. role play	12	7	58.3
		term of academic	f. games	12	9	75
		context is/are	g. others	12	0	0
			g. others	12		
14		In learning	a. guessing the	12	8	66.7
		English	meaning from			
		vocabulary in the process of learning in the English	the contexts.			
			b. completing	12	6	50
			blank spaces in			
		tutorial program,	the paragraph			
		types of activity	with provided			
		that I like is/are	words.			
			c. completing	12	6	50
			blank spaces in			
			the paragraph			
			with your own			
			words.			
			d. identifying parts	12	6	50
			of speech.			
			e. others	12	2	16.7
15		In learning	a. identifying	12	8	66.7
		grammar in the process of learning	mistakes in			
			sentences and			
		in the English	correct them.	10	8	667
		tutorial program, type of activity that I like is/are	b. creating	12	8	66.7
			sentences using the learned			
		that I like is/are	pattern of			
			*			
			grammar. c. completing	12	8	66.7
			paragraph with	12	0	00.7
			grammatically			
			correct			
			sentences.			
			d. others	12	0	0
16.		In learning	a. repeating the	12	4	33.3
10.		in carning	a. repeating the	14	4	22.2

			1 / 2	l	1	1
		pronunciation in	speaker/tutor's			
		the process of	pronunciation			
		learning in the	loudly.			
		English tutorial	b. given	12	11	91.7
		program, types of	pronunciation			
		activity that I like	on the particular			
		is/are	vocabulary.			
			c. pronouncing the	12	6	50
			words that have			
			been given			
			pronunciation			
			transcription.			
			d. others	12	0	0
17.	Setting	In learning	a. individual.	12	6	50
1,,	Seemis	speaking, it is	b. pairs.	12	9	75
		better to do the	c. small group.	12	8	66.7
		activities in		12	6	50
		activities III	d. big group.			
10	т .	XX71 T 1	e. others	12	0	0
18	Learners'	When I learn	a. listen to the	12	6	50
	role	speaking, it will be	tutor			
		better if I	explanation and			
			take a note.			
			b. listen to the	12	8	66.7
			tutor's			
			explanation and			
			do his/her			
			instructions.			
			c. participate	12	7	58.3
			actively in the			
			discussion			
			activity and			
			share opinion			
			with the tutor			
			and classmates			
			about particular			
			topic.			
			d. learn	12	4	33.3
			individually in a			
			quiet classroom.			
			e. others	12	0	0
19	Teachers'	In the process of	a. resource (the	12	11	91.7
	role	learning, I want	tutor acts as	- -		
		tutor acts as	knowledge and			
			information			
			source who			
			gives you			
			examples before			
			you practice the			
			task)			

b. organizer (tutor organizes you to do various activities) 12 7 58.3
c. prompter (tutor encourages you to think creatively by giving clues)
d. observer (tutor observes what you do and give individual or group feedback) 12 7 58.3
e. controller (tutor takes in charge of the class and of the activity).
f. assessor (tutor offer feedback and correction and grades you in various ways).
g. others 12 1 8.3

COURSE GRID UNIT 1

Name of the Course : English Tutorial Program

Program of Expertise : International Mathematics Education Study Program

Semester : IV

Competence : Communicating in English at Intermediate Level

Compe	eterice	. C	onununcamig in E	ngiish at intermediai	te Levei			
Unit	Unit Title	Topic	Indicators	Language	Langua	ge Focus	Procedure	Input
				Function	Vocabulary	Grammar		
1	In my opinion, integer is an interesting topic.	Integers	- Students are able to identify expressions of asking and giving opinions. - Students are able to identify the level of formality of the expressions of asking and giving opinions in a dialogue. - Students are able to use expressions of asking and giving opinions in sking and giving opinions in	Function Asking for opinions: - What do you think?			Let's get started: - Studying a picture and answering some questions Brainstorming of integers using mind map. Let's take action: - Studying - vocabulary existed in the dialogue used for next task and complete the table (pair work) Listening to a conversation containing some expressions of asking and giving	Conversation s talking about integers containing expression of asking and giving opinions. Pictures Explanations Cards
			conversations.				opinions and answering some	
			- Students are				questions based on	

able to use particular terms in integers in conversations.

- Students are able to recognize the formation and position of adjectives and apply them in sentences.

the conversation.

- Studying the expressions of asking and giving opinions (pair work).
- Studying a conversation containing expressions of asking and giving opinions and identifying the expressions existed in the dialogue and the level of formality then acting out the conversation (Pair work).
- Completing blank spaces in a conversation using words in the boxes and acting out the conversation.
- Playing survey game

Interviewing five friends to find out their opinions about integers and their reasons of having the opinions and then sharing the result of interview in front of the class orally.

- Completing two conversations with some expressions of asking and giving opinions learned before and identifying the relationship between the speakers and the level of formality of the conversation and then acting them out with their partners.
- Studying explanations of adjectives.

- Working in pairs discussing correct adjectival forms in order to restate the sentences and then sharing their discussions results with their friends.
- Playing a game
 Finding out people's
 opinions of other
 people according to
 the cards given to
 students.

Let's Do More:

- Doing role play using expressions of asking and giving opinions about integers based on the chosen situation.

Let's Do evaluation:

Using subtopics
 which have been
 brainstormed in the
 previous task, acting
 out conversation

containing expressions of asking and giving opinions about one of the subtopics without using texts.

Homework

Interviewing three friends in the same department to find out their opinions about the advantages and disadvantages of studying integers and reporting the results of interview in the class.

COURSE GRID UNIT 2

Name of the Course : English Tutorial Program

Program of Expertise : International Mathematics Education Study Program

Semester : IV

Competence : Communicating in English at Intermediate Level

Compe	terree	. con	intumeating in Engin	sn at intermediate Lev	/ C1			
Unit	Unit Title	Topic	Indicators	Language	Langua	age Focus	Procedure	Input
				Function	Vocabulary	Grammar		
2	We could find articles on quadrilater als in the library.	Quadrilater	 Students are able to identify expressions of asking and giving suggestions in conversations. Students are able to identify the level of formality of conversations containing expressions of asking and giving suggestions. Students are able to apply expressions of asking and giving suggestions in conversations. Students are able 	Asking for suggestions: - Could you suggest me? - Do you have any suggestions for me? - Can you tell me what should I do? Giving suggestions: - Let's - What about - I'd like to suggest - etc	Specific terms related to quadrilater als: - parallel - properties - line - angle - rhombus - trapezoid - kite - etc. Modal: - may - can - could - shall - should - etc	Modal: - Modal in giving and asking for suggestions	 Let's get started: Studying a picture and answering some questions. Brainstorming of integers using mind map. Let's take action: Studying vocabulary existed in the conversation used for next task and completing the table. (pair work). Listening to a conversation containing some expressions of asking and giving suggestions and telling the main	 Conversati ons talking about quadrilater als containing expressions of asking and giving suggestion s. Pictures Situation cards.

to use particular terms in quadrilaterals in conversations.

- Students are able to recognize the use of modals and apply them in conversation of asking and giving suggestions. point of the conversation based on the guide on the table.

- Studying the expressions of asking for suggestions (pair work).
- Identifying the level of formality of two conversations, completing blank spaces in the conversations using words in the boxes and acting out the conversations in pairs.
- Playing informationgap game.
 Finding a friend
 who has the same
 card containing the
 answer of your card
 and asking him/her
 suggestions how to
 solve the question
 based on the answer

of the question written on the card.

- Studying the explanation of modal auxiliaries and the use of them.
- Working in pairs analyzing modal auxiliaries used by the speaker and sharing the results of analysis in the class orally.
- Studying a conversation between two people talking about quadrilaterals and answering some questions based on the conversation.
- Studying the expressions of giving suggestions (pair work).
- Identifying the relationship between

the speakers and the level of formality of the conversations talking about quadrilaterals and completing the conversations with their own words and/or some expressions of asking and giving suggestions learned before and then acting them out with their partners.

- Playing a survey game.
Interviewing friends and asking for their suggestions of the materials recommended by your lecturer and making decision which material that will be chosen by you then sharing it with your friends. (group work)

Let's Do More:

- Doing role play using expressions of asking and giving suggestions about quadrilaterals based on the chosen situation.

Let's Do evaluation:

- Doing role play using the expressions of asking and giving suggestions and one of the subtopics that have been brainstormed in the Task 2.

- Homework

Asking for suggestions of how to learn quadrilaterals easily through interviewing three friends in the same department and reporting the results of interview in the class.

COURSE GRID UNIT 3

Name of the Course : English Tutorial Program

Program of Expertise : International Mathematics Education Study Program

Semester : IV

Competence : Communicating in English at Intermediate Level

Unit	Unit Title	Topic	Indicators	Language	Langua	ige Focus	Procedure	Input
0 1110	0 1110 1100	- op 10	221412444025	Function	Vocabulary	Grammar		P 4
3	What I'd Like to Present to You Today is Linear Algebra	Algebra	 Students are able to identify parts of presentation and the expressions used in each of the parts. Students are able to apply the expressions of making generalizations in conversations. Students are able to apply gerund in the simple conversations. 	Making generalizations: all, none, most, many, always, everyone, never, sometimes, some, usually, seldom, few, generally, in general, overall and soon.	Specific terms related to algebra: - real number - fraction - factor - denomin ator - equation - binomial - Etc.	Gerund: The use of gerund.	 Let's get started: Studying picture of students doing presentation and answering some questions based on the picture. Completing boxes with things (subtopics) related to algebra Let's take action: Studying vocabulary (noun) existed in the conversation used for the next task and complete a table (pair work). 	 Monologue Conversations Presentation scripts Pictures Explanations
			 Students are able to apply the useful 				 Listening to a monologue of a student presenting 	

expressions for presentation in a presentation.

about algebra and answering the questions.

- Studying the useful expressions for presentation.
- Completing blank spaces in a monologue using the expressions that have been learned in the previous task and act out the monologue.
- Studying some sentences and answering some questions.
- Studying the explanation of gerund.
- Identifying mistakes in short conversations and correcting the words and then identifying the positions of

gerunds in the corrected sentences then practicing the dialogue (gerund application)

- Studying some statements and answering questions based on the statements
- Studying useful expressions for making generalizations.
- Creating generalizations based on the given facts or situations orally.
- Working in a group of three and doing a presentation based on the material given.

Let's Do More:

- Doing individual presentation in front

of the class using one of the topics which have been provided.

Let's Do evaluation:

- Working in a group of three or four.
Each of the members should do a presentation in front of the class and the other members should evaluate the presentation using the provided criteria. The result of the evaluation should be shared in front of the class.

- Homework

Doing a survey to the five friends who do not join the English speaking club to find out how they do presentation and asking them whether they do presentation in the classroom using the

expressions learned
in the previous
chapters or not.
And then report the
results of interview
in the class.

1

In My Opinion, Integer Is an Interesting Topic.



Picture 1.1

As students of Mathematics Education study program, you must have been familiar with integers. When you hear the word "integer", what comes to your mind? What do you think about integer?

In this unit, you will learn some expressions used to ask and give opinions about integers. You will also use the expressions in the communication activities.

A Let's Get Started



Task 1

Study the following picture and answer the questions.



Picture 1.2

In an activity discussing integer, you find it difficult to solve some problems of integer. You want to ask your friend's opinions of how to solve the problems.

What will you say to her/him?

Can you say it using the expression of asking for opinions?

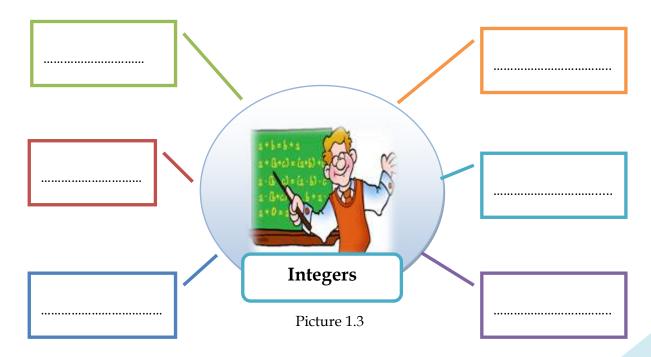
Can your friend answer your questions using expression of giving opinions?

If you are able to ask your friend using such expressions, which expression do you think is the most appropriate to be used?



Task 2

Below is a mind map of integers. Think about integers and write the things that you usually learn in integers on the chart.



Let's Take Action



Task 3

Below are some adjectives and adverbs that you are going to find in Task 4. Complete the table below and then pronounce the English words. Do it in pairs and ask your partner to check your pronunciation.

No	English	Parts of Speech	Indonesian	Pronunciation
1	abundant	adjective	berlebih	/əˈbʌn.d ə nt/
2	afraid			
3	abundant			
4	below			
5	clear			
6	complicated			•••••
7	exaggerate			
8	physical			
9	quite			
10	simpler			



Task 4

You will listen to a conversation containing some expressions of asking and giving opinions about something. Listen carefully and take notes for important information, then answer the following questions according to the conversation.

- 1. What is being discussed by the speakers?
- 2. What are their opinions toward the topic?
- 3. Where did Colby's materials come from?
- 4. What do they think about the professor?
- 5. What is the definition of the topic given by the speaker? Use your own words.
- 6. What can the topic be applied to?
- 7. What are subtopics that they are going to learn related to the topic?
- 8. When will they learn the topic in the class?
- 9. Is there any expression of asking opinions in the conversation? (If any, mention it/them).
- 10. Is there any expression of giving opinions in the conversation? (If any, mention it/them)



Task 5
Study the following explanation with your partner.



Language Functions: Asking and Giving Opinions

There are some expressions that can be used in asking and giving opinions. You may need different expressions for different situations. Furthermore, you need to consider the level of formality of the expressions that you are going to use.

Below are explanations of the expressions that you need to ask and give opinions and in what situation you can use the expressions.

Expre	ssions	Level of
Asking for Opinions	Giving Opinions	formality
What about?How do you see?What do you reckon	I thinkI'd sayWell, to my mind,I reckon	Less formal
What do you feel about?What do you think of/about?What is your opinion/view about?	In my opinion/viewI believe/feelFrom my point of view	↑
 Do you have any opinion on? What would you say to? I'd be glad/grateful to have your view/opinion on? 	 I consider I hold the view/opinions It's my considered opinion that 	₩ More formal
	Asking for Opinions - What about? - How do you see? - What do you feel about? - What do you think of/about? - What is your opinion/view about? - Do you have any opinion on? - What would you say to? - I'd be glad/grateful to have your view/opinion	- What about? - I think How do you see? - Well, to my mind, What do you feel about? - In my opinion/view What do you think of/about? - From my point of view What is your opinion/view about? - I consider Do you have any opinion on? - I hold the view/opinions say to? - I'd be glad/grateful to have your view/opinion

Adapted from Function in English (1982)



Task 6

Study the following dialogue in pairs and identify the expressions of asking and giving opinions and the level of formality then practise the dialogue with your partner.

Rani and Paulina are having dialogue about their math class today. They are having dialogue in a small garden somewhere in their campus.

Rani : Did you enjoy the math lecture?

Paulina : The professor droned on and on about dividing and multiplying integers.

Rani : But he's quite funny right?

Paulina : Yeah, but it's like taking all day long to discuss them.

Rani : Well, I think he wanted us to understand it well before moving to the next

topic. You see it right? Many of us haven't understood the materials yet?

Paulina : Is it really difficult topic?

Rani : I believe that for some people it is difficult. Have you solved all the

problems given?

Paulina : Yeah.

Rani : Actually, I still don't get it how to add and subtract integers.

Paulina : Why are they so hard for you?

Rani : I don't know. Have a look at this.

What do you think of this question?

-5+(-9)=..... -5+9=....

Paulina : Well, I must say, it's very easy. If you find it difficult, what you need to do

is focus on the sign whether it is positive or negative. If both of the numbers are negative or positive, you just need to jump them together. You got (-5)

and (-9), so all together, you got (-14).

Rani : Okay. But I usually have problems with the sign.

Paulina : What about using the number line? It will help you think about how

negative and positive numbers work when they are together.

Rani : I'd say you're brilliant.

Paulina : Don't be exaggerating. It's just a common thing. Think of positive numbers

as moving to the right on the number line and negative number as moving

to the left on the number line.

Rani : Oh, I see.

Paulina : Remember that every negative cancels out one positive, so for the second

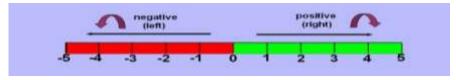
question, 5 negatives cancel out 5 positives and that will leave 4 positives

hanging out.

Rani : That's right. I get it.

Paulina : Now, how do you feel about integer? Is it really difficult topic?

Rani : Well, to my mind, it's quite easy after you help me. Thank you.



Picture 1.4

For Your Information

Mathematical Symbol in Integers

Integers consist of negative number, zero and positive number. The set of integer is usually shown like this:

$$\{\dots$$
 -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, ... $\}$

Symbol	Meaning	Example
€	belong to	2, 4, 6 \in integers \rightarrow 2, 4, 6 belong to integers.
≠	(is) not equal	$7 - 3 \neq 3 - 7 \rightarrow 4 \neq -4$
<	less than	$x < y \rightarrow x$ is less than y
≤	less than or equal to	$x \le y \to x$ is less than or equal to y
>	greater than	$x > y \rightarrow x$ is greater than y
≥	greater than or equal to	$x \ge y \rightarrow x$ is greater than or equal to y
2	The absolute value of 2,	2 = 2, the absolute value of 2 positives is 2
-5	The absolute value of -5,	-5 = 5, the absolute value of 5 negatives is 5

Note: x and y are letters to replace integers. Absolute value is the distance a number from zero.



Ashley

Task 7

You will be given a conversation of two students talking about integers with some blank spaces. Complete the blanks using expressions of asking and giving opinions in the left box and adjectives and adverbs in the right box, then act it out with your partner.

Ashley and Sinta are having conversation about the assignment given by their lecture in food court.

: Have you read the paper that the professor assigned for tomorrow

	class?(2) it's(1) interesting.
Sinta	: No. Not yet. What is it about?
Ashley	: It's about integers. There are some questions that should be solved in
	pairs and we are going to have group discussion(2)
Sinta	: Well,(3), it isn't(4) at all.
Ashley	: By the way, let's study together. We need to solve all the questions.
Sinta	: All right, professor(5) likes to give(6) questions to
	his students

Ashley :(7).... dividing the questions? Each of us does five questions. Sinta :(8).... we'll get(9)..... understanding if we discuss it together.

: All Right, then. Ashley

Snta : Are decimals, fraction and percents included in integer?

Ashley : No, Integers are whole numbers and their negative opposites.

Sinta : Meaning that it includes positive whole numbers,(10)..... whole

numbers and zero?

Ashley : That's right.

Sinta : Do you know the symbol representing integer?

Ashley : Well, I've read the materials about it(11).... Hmmmm, it's alphabet zi,

capital zi. Zi stands for Zahlen, it's used to denote set of integers.

Sinta : I see. It's quite easy.(12).....?

Ashley : ...(13).... the same as you.

Sinta : What issues do we have to solve on integers?

Ashley : Not so many. It's about adding, subtracting,

multiplying and dividing

integers, especially the rules of all of them.

Sinta : There is only 15 minutes left before the next class start. Let's continue

our discussion(14)..... the class ends.

Ashley : Okay.

> I think I believe I feel What about to my mind

> > What do you feel?

before interesting quite tomorrow after sometimes negative better unexpected

integer

Z

Letter which represents



Task 8 Let's Play Survey Game

Ask your friends' opinions about integers and their reasons of having such opinions. You have to fill the table below and then share it to your friends in front of the class.

interesting, boring, easy, difficult, challenging, complicated, tricky

No	Your friends' names	Opinions	Reasons
1			
2			
3			
4			
5			



Task 9

Complete the following situations with expressions of asking and giving opinions and then identify the level of formality. Using the completed situation, practice them with your partners. Number one has been done for you.

1. Jacob : Excuse me, are you mathematic department student?

Ana : No. I'm not. I'm art department student.

Jacob : As students of art department, what is your opinion about mathematics?

Ana : *In my opinion*, mathematics is a scary subject. It consists of dreadful

formulas.

Jacob : Well, beside that, what do you think of the significance of mathematic in daily

life?

Ana : From my point of view, people don't need all those formulas in their daily life. For example, if we go to a supermarket to buy some food or drink we don't need to use

sin or tangent.

Jacob : Well thank you, your opinion is really helpful.

Ana : Any time.

2. Lubis is asking Sean for helping him to solve a question in the application of integer.

Lubis : Sean, check this out.

Sean : All right.

Lubis :of this question?

Sean : Well, this question is interesting.

Lubis : I barely solve this question.

Can you solve it? I just want

to make sure that my answer is right.

Sean : Sure.it's really easy question.

First, you need to find the amount of temperature change and set up

a proportion.

One day in July, the temperature at ground level at the airport was 90°. A pilot reported the temperature at 10,000 feet was 50°. How much did the temperature drop per 1000 feet?

Lubis : The change of temperature is 40°, then how is the proportion?

Sean : The distance of second temperature form the ground is 10,000 feet.

The question is how much the temperature drops per 1000. Then you need

to subtract 1000 with 10,000 and multiply the result with 40.

Lubis : Wow, that's great., you never find it difficult to solve problems

in integer.

Sean : I couldn't agree with you more.

Lubis : Thanks, dude.

Sean : Anytime.

 $\frac{1000}{10000} \times 40 = 4$

Continued....

3. Hana and Milley are having a chat after their exam is finished. They are discussing about the question appeared in the exam paper.

Hana : How is your exam? I'm a bit worried of mine. Question no.4 Milley :, it's quite easy-to-solve. London, England, Hana : Really? You solve all those dreadful located at 0° longitude. questions of integer? Write integers for the Milley :, integer isn't that scary. location of New York Hana : So, did you solve the question number four? City whose longitude is Milley : I forget the questions, what was about? 74° west and Tokyo Hana : It's about the longitude of New York and whose longitude is 140° Tokyo. east. Assume that east is Milley : I see.discuss it together? the positive direction. I'll help you to solve the question. Hana : Sure. My mind is not at ease at all. Millev : I you must use the number line. Look, London is 0. New York is in the west side of London and Tokyo is in the east side of London. If east side is the positive direction so New York is in negative direction. Hana : Why couldn't I understand this? Milley : I you were in panic. All right, should we study together, next time? Hana :....., I must accept your offering to study together. Milley : That's a good decision.



Task 10

Study the following explanation with your partner.



Grammar: Adjectives

According to Cambridge Advanced Learners' Dictionary, an adjective is a word that describes a noun or pronoun. Adjective has its own formation. Adjectives can also be indentified from its position towards nouns. Below is the explanation of adjectives formation and its position towards noun.

A. Formation of adjectives

1. Adjectives formed with suffixes

Many adjectives related to verbs or nouns have characteristics ending (suffix). The suffixes change verbs or nouns into adjectives. Each of suffixes has its own meaning.

Continued...

B. Formation of adjectives

2. Adjectives formed with suffixes

Many adjectives related to verbs or nouns have characteristics ending (suffix). The suffixes change verbs or nouns into adjectives. Each of suffixes has its own meaning.

-able (capable of being): manageable	-ible (like -able): <i>permissible</i>
-ful (full of): boastful	-(i)an (historical period,etc): victorian
-ic: energetic	-ish(have the quality of): follish,redish
-ive(capable of being):attractive	-ly(have this quality): friendly
-ant: hesitant	-ous: humorous

Example:

- a. I'm <u>attracted</u> by this scheme \rightarrow I find it very <u>attractive</u>
- b. A class of forty can be <u>managed</u> \rightarrow It's just about <u>manageable</u>

3. Adjectives formed from prefixes

A prefix added to adjectives has a negative effect.:

un-: uncooked, unimaginable	im-: immoral, impractical
in-: incapable, inhuman	dis-: dishonest, disagreeable
il-: illegal, illegible	ir-: irresponsible, irregular

Example:

I think it's possible to solve the problem. I think it's impossible to solve the problem.

Possible has opposite meaning with *impossible*. *im*- gives negative impact to the word *possible*.

4. Compound adjectives of measurements

Compound adjectives can be formed by combining numbers with noun in the singular.

Example:

A twenty-year-old-man

Compound adjective can refer to:

· ,	
-age: a three-year-old building	-area: a fifty-acre farm
-volume: a two-litre car	-duration: a four-hour meeting
-length: a twelve-inch ruler	-depth: a six-foot hole
-price: a fifty-dolar dress	-time/distance: a ten-minute walk
-weight: a five-kilo bag	

B. Position of adjectives

Most adjectives are used in two ways in English:

- 1. Before noun: Integer is an *interesting* topic. (interesting: adj, topic: noun)
- 2. After be, seem (linking verbs):, etc Integer <u>is</u> *interesting*. (is: be, interesting: adj) **Linking verbs**: be, appear, become, feel, look, prove, seem, smell, taste.

Adapted from English Grammar Practice for Intermediate Students by L.G. Alexander (1998)



Task 11

After studying adjectives in the previous task, restate the following sentences using correct adjectival forms. Discuss with your partner and share your result of discussion with your friends orally.

A. Adjectives using prefixes or suffixes

- 1. I know I <u>hesitated</u> before agreeing. I couldn't help being *hesitant* before agreeing.
- 2. I don't know where you find all that <u>energy</u>. You're tremendously.....
- 3. How many absents can be <u>permitted</u>? How many absents are.....
- 4. Sometimes she doesn't behave in a <u>responsible</u> manner. She's quite.....
- 5. Bob is not very <u>capable</u> of making decision. He's.....

B. Compound adjectives

- 1. The project costs two million rupiahs. It's a two-million-rupiahs project
- 2. The lecturer is thirty-five years old. She's.....
- 3. The conference lasts two days. It's.....
- 4. The faculty building is a half of hectare. It's.....
- 5. The examination takes two hours. It's.....



Task 12 Let's Play Game

You will be given a game on asking and giving opinions. Study the game's rules and play the game based on the rules with your classmates. Do some rehearsal before playing the game.

Type of activity:	Function practiced:	Exponent:
Pair and whole class	- Stating Opinion	- I think that
	- Describing character	- In my opinion, etc.
		- Adjective for describing
		characters
Situation:	How to do:	Vocabulary:
You are in the	- Study the vocabulary.	- Efficient
division of research in	- Choose one of the names to	- Cheerful
the student	act out.	- Bad-tempered
organization.	Flo will pair up with Sam	- Good-natured
Someone in your	Alex will pair up with Terry	- Hopeless at
division is going to be	Pip will pair up with Robin	- Rigid
chosen as the leader.	- Each pair should discuss	- Narrow-minded
Naturally, you hope	who is suitable for the leader	- Open-minded
it's going to be you.	by stating each of opinions	- Careful
	based on the card.	- Precise
	- After take out a name as a	- Careless

leader, each pair should share it to the other pairs. They should state their opinion based on the card, why they choose the person.

- If in your class consists of twelve students or more, then there will be two or three students who act out a name.
- Disorganised
- Terrible
- Pompous
- Indecisive
- Down-to earth
- Inefficient
- Grumpy
- Miserable

Note for the game:

Talk to people and find out what they think. Try to convince them of your opinion. Don't tell anyone directly what you think of them, of course, but you can tell them what the other people think about them, if you like.

The cards are in the appendices.



Let's Do More



Task 13

You will be given some situations. Choose one of the situations and create a dialogue talking about integers and use the expressions on asking and giving opinions that you have learned in the previous tasks, then acting out the dialogue with your partners in front of the class. The dialogue should be 200-250 words long.

You're talking with your junior who asks your help for solving a question on integers.

You're having discussion with your classmates about how to multiply integer.

You're talking to your lecturer. Both of you are discussing of how to solve certain questions in dividing integers. You can decide the questions on your own.

You're talking to someone in a seminar who happens to be sitting next to you and you are discussing about the materials about integers which have been presented by the speakers.

You're a tutor and you're having discussion with your student on solving a question related to integers. You can decide the questions on your own.

D

Let's Do Evaluation



Task 14

From the subtopics you have brainstormed in Task 2, choose one of the subtopics and do role play with your partner in front of class using expressions of asking and giving opinions about the subtopic you have chosen.

E

Homework



Task 15

Interview three of your friends on the same departments. You are allowed to interview the upper semester or the lower semester. Ask their opinions about the advantages and disadvantages of studying integers. Then report your interview results in the class.



"Educating the mind without educating the heart is not education et all"

Aristotle

F Let's Make Reflections

Self-Assessment

You have learned all the tasks in this unit. Do reflection based on yourself. Put a tick ($\sqrt{}$) mark on the table of Yes/No according to the statements.

Statements	Yes	No
I can recognize the expression used for		
giving and asking opinions		
I can differentiate the level of formality		
of the expressions of asking and giving		
opinions		
I can apply easily those expression in		
conversation		
I can improve my pronunciation.		
I can improve my vocabulary mastery.		

Give your	comments	about th	s unit and	i the airricui	ty tnat you n	na wnen you	learn this
unit here:							
	• • • • • • • • • • • • • • • • • • • •						
	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••		• • • • • • • • • • • • • • • • • • • •		

Peer Assessment

Ask three of your friends that have worked with you in learning this unit and ask them to give you assessment by putting a thick mark ($\sqrt{}$) on the table of Yes/No according to the statements.

Name of being assessed:

Statement	Name of assessor:		Name of assessor:		Name of assessor:	
	<u> </u>					
was cooperative						
participated actively in						
the most of activities						
contributed to						
ideas/planning						
was positive and						
helpful						
was responsible in						
doing activities.						

Summary

Language Functions

Asking for Opinions	Giving Opinion
What about?	I think
What do you think of?	In my opinion
What is your opinion of?	It's my considered opinion that
Do you have opinion on?	

Grammar: Adjectives

a. Formation of Adjectives

Formed with suffixes:	Formed from prefixes:	Compound Adjectives:
manageable,	incapable,	a six-foot hole,
friendly,	immoral,	a twelve-inch rule,
humorous, etc.	dishonest, etc.	a red-haired guy, etc

b. Position of Adjectives

Before noun: an unimaginable miracle.

After be or linking verbs: The miracle is *unimaginable*.

LIST OF VOCABULARY

English	Parts of Speech	Pronunciation	Indonesian
		Transcript	
able	adjective	/ˈeɪ.bl/	mampu
add	verb	/æd/	tambah
appropriate	adjective	/əˈprəʊ.pri.ət/	sesuai
assign	verb	/əˈsaɪn/	memberikan
attend	verb	/əˈtend/	mengikuti
carefully	adverb	/ˈkeə.f ə l.i/	teliti/hati-hati
chart	noun	/tʃaːt/	grafik
consider	verb	/kənˈsɪd.ə r /	mempertimbangkan
contain	verb	/kənˈteɪn/	berisi
decide	verb	/dɪˈsaɪd/	menentukan
delegate	noun	/ˈdel.ɪ.gət/	delegasi
divide	verb	/dɪˈvaɪd/	membagi
drone	verb	/drəʊn/	Berbicara terus menerus
exaggerate	verb	/ɪgˈzædʒ.ə.reɪt/	Melebih-lebihkan
indicate	verb	/ˈɪn.dɪ.keɪt/	menunjukan
line	noun	/laın/	garis
matter	noun	/ˈmæt.ə r /	persoalan
multiply	verb	/ˈmʌl.tɪ.plaɪ/	mengalikan
nuance	noun	/'n j u:.a:n t s/	nuansa
pitch	noun	/pɪtʃ/	titinada
prefix	noun	/ˈpriː.fɪks/	imbuhan awalan
sign	noun	/saın/	tanda
solve	verb	/splv/	memecahkan
subtract	verb	/səbˈtrækt/	mengurangi
suffix	noun	/ˈsʌf.ɪks/	imbuhan akhiran
vowel	noun	/vaʊəl/	huruf vocal
willingness	noun	/ˈwɪl.ɪŋ.nəs/	kemauan

2

We could find articles on quadrilaterals in the library.



Picture 2.1

In what semester did you study quadrilateral? What did you learn about quadrilateral? You may have been familiar with some particular terms of quadrilateral. Can you give examples of them?

In some particular situations in the classroom, you may ask or give suggestions to your friends or your lecturers about the situation you are in or the things related to the situations.

In this unit, you are going to learn of how to ask and give suggestions to others in a conversation. The topic you are going to deal is quadrilateral.

A Let's Get Started

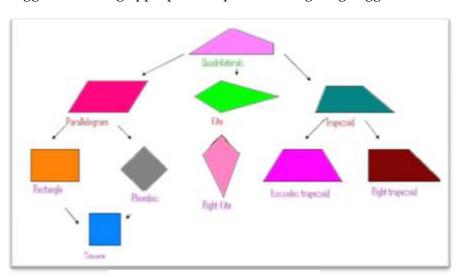


Task 1

Study the following picture and answer the questions.

Questions:

- 1. What is the picture about?
- 2. How do you find the picture?
- 3. Suppose that your friend find it difficult in identifying types of quadrilateral and their properties. She asks you to give her suggestions how to overcome her difficulties. What kind of suggestions will you give to her?
- 4. Can you give your suggestions using appropriate expressions of giving suggestions?
- 5. Can your friend also use the expressions of asking for suggestions?
- 6. If you have already known such expressions can you give examples of them?

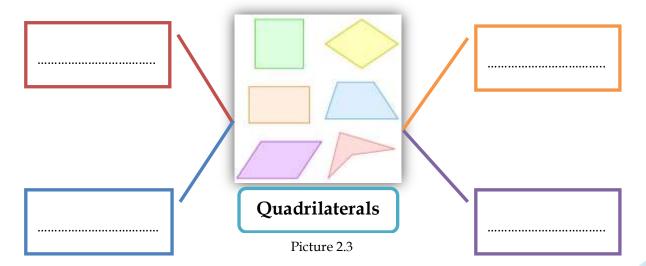


Picture 2.2



Task 2

Below is a mind map of quadrilaterals. Think about quadrilaterals and write the things that you usually learn in quadrilaterals on the chart.



B Let's Take Action



Task 3

Below are some verbs and nouns that you are going to find in Task 4. Complete the table and then pronounce the English words. Do it in pairs and ask your partner to check your pronunciation.

No	English	Parts of Speech	Indonesian	Pronunciation Transcription
1	base	noun	alas	/beis/
2	classify			
3	follow			
4	kite			
5	leave			
6	paper			
7	parallelogram			
8	rhombus			
9	shape			
10	trapezoid	•••••		



Task 4

You will listen to a conversation containing some expressions of asking for suggestions about something. Listen carefully and take notes for important information, then tell orally the main point of the conversation to your partner. Ask your partner to tell back to you and compare whether you and your partner have the same understanding or not. The words below will help you in telling the main point of the conversation.

What?	••••••
Who?	•••••••
When?	•••••••
Where?	•••••••
Why?	•••••••
How?	•••••••

For Your Information



Quadrilaterals at a glance

Quadrilateral is a flat shape with four straight sides. Quadrilateral is 2-dimensional shape which the sum of the angles is 360°.













Parallelogram

Rectangle

Rhombus

Square

Trapezoid (US) Trapezium (UK)

Kite

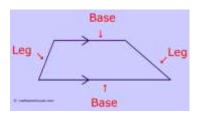
Properties Quadrilateral

		1	10100 & 00000111000			
Parallelogra	Rectangle	Rhombus	Square	Kite	Trapezium	Isosceles
m						Trapezoid
Opposite	Four right	Four	All the	2 pairs	One pair	Legs are
sides parallel	angles	congruent	characteristics	adjacent	opposite	congruent
Opposite		sides	of	congruen	sides	Base angles
sides	Diagonals		parallelogram,	t sides	parallel	congruent
congruent	are	Perpendicu	rhombus and			Diagonal
Opposite	congruent	lar	kite are include	Opposite	Leg angles	congruent
angles are	_	diagonals	in the	sides not	supplement	
congruent			characteristics	congruen	ary	
Consecutive		Diagonal	of square	t or		
angles are		bisect		parallel.		
supplementa		opposite				
ry		angles				
Diagonal						
Bisect each						
other						

Rhombus

d1and d2 are diagonals





Symbol

⊥ : perpendicular

 \cong : congruent

// : parallel

∠ : angle

Right angle means angle of 90°.

Bisect means "divide into two".

If two sides are congruent, it means that the sides have the same shape and size.

If two sides are parallel, it means that the sides have the same shape and different size.



Study the following explanation with your partner.



Language Functions: Asking for Suggestions

Below are the expressions of asking for suggestions:

Expressions	Level of formality
If don't mind, would you like give me your suggestions? Would you give me your suggestions?	More formal
Could you recommend? Could you suggest me? Do you have suggestions for me?	•
Can you tell me what should I do? What should I do? Any idea?	Less formal

There are many others of the expressions. In conversation, you may apply the expressions you have been familiar with.



"Live as if you will die tomorrow. Learn as if you were to live forever"

-Mahatma Gandhi-



Below are two conversations talking about quadrilateral with different level of formality. Identify the level of formality in each conversation and complete the blanks parts in each conversation using appropriate expressions of asking for suggestions or any other responses in the brackets, then act them out with your partner.

A. Rachel and Charlotte are close friend. They often share the problems that they have. Rachel seems have problem and she wants to ask for suggestions to her good friend.

Rachel : I am tutoring mathematics for first year of a senior high school student, but

he seems doesn't interested in math.(1).....?

Charlotte : You may use interesting way in giving explanation to him, or you may use

....(2)...... Some students find it interesting and challenging.

Rachel : Tomorrow's topic is......(3)..... Can I apply games in teaching it?

Charlotte : Sure.

Rachel :(4)..... of what kind of games I can employ?

Charlotte : Well, for example, in introducing the ...(5)..... of quadrilateral you can

use puzzle. He ought to solve each question by finding information from the book or other resources. It will be more interesting than listening to

explanation only.

Rachel : Oh, I see. I'll make the(6).... in the form of family tree of quadrilaterals. In

the top of the tree I'll write a question, for example "are both pairs of the opposite side parallel?" and the down line I'll write yes or no and there will be questions again. In the bottom of the tree there will be boxes and he has

to conclude what the types are based on the questions. How is it?

Charlotte : That sounds good.

Rachel : Really? Or do you have any other(7).....?

Charlotte : Let's try that one first, then we will try to find another(8)..... if it doesn't

work.

Rachel : All right, thank you so much.

Charlotte : You're welcome.

a. suggestions

b. solution

c. games

d. puzzle

e. quadrilateral

f. properties

g. do you have any idea...

h. can you tell me what should I do?

B. Sania was absent in the yesterday class, Mr. Mycroft' class because she had to attend an international seminar. Therefore, to cover the materials she missed, she studied by herself doing some problems in quadrilateral. However, she found it difficult to solve particular problems. She wanted to ask for suggestions to Mr. Mycroft' assistance.

something angle questions overview thing library characteristics books
Would you tell me... Could you suggest..

Sania : Excuse me. I'm Sania, Mr. Mycroft's student. Can I ask you(1)......?

Assistant : Sure. I'm a little bit free now.

Sania : I was trying to solve some problems on quadrilateral but I found it difficult

to solve this question.(2)......how to solve this question?

Assistant : Let me see the(3)......

Sania : Here.

Assitant : Before I give my suggestion, I want to ask a question to you? Do you

familiar with the(4)..... of rhombus.

Sania : A little bit.

Assistant : As I remember, Mr Mycroft gave some(5)...... about the properties of

quadrilateral. If you attend his class, you should have known.

Sania : I was absent yesterday because I had to attend an international seminar.

Assistant : Well. First(6)...... is you need to know whether ∠DAB and ∠DCB are

congruent or supplementary, then you can operate the function and find

the(7)...... of each in degree and finally you can find $\angle ADC$.

Sania : Oh I see. I get it now.

Assistant : So, are they congruent or supplementary?

Sania : ∠DAB and ∠DCB are congruent. Assistant : That's right. Is there anything else?

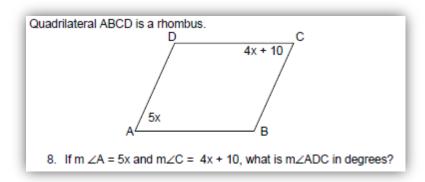
Sania : Well, It's said that Mr. Mycroft showed students few.....(8)....for his class.

.....(9).....me which book is good and easy to be understood?

Assistant : Mr. Mycroft usually uses this book. You can find it in the(10).......

Sania : Well, thank you so much for your suggestions.

Assistant : You're welcome.





Task 7Let's Play a Game

Play information-gap game below based on the card you are going to receive.

You will be given a card containing a question about quadrilateral. Each card has a pair in which the pair contains the answer of the question. Find your friend who has the same card as yours then ask her/him to give suggestions of how to solve the question based on the answer on the card.

How to play

After knowing the answer for the question on your card, you and your partner should show the card in the class and share with your friends orally the answer of the questions.

Note: the cards are in the appendices.



Study the following explanation with your partner.



Grammar: Modal Auxiliaries

It is called as modal auxiliaries because they add to verb some meaning. Modal auxiliaries consist of *can, may, should, ought to, must, have to, may* and soon. Each of them has its own function. They can be used to express *ability, permission, obligation or advisability, necessity, possibility* and soon.

In the previous tasks, you have seen that modals appear in the expressions of asking for suggestions such as *can*, *could*, and *would*. Those are used to express politeness.

		→ more polite
can	could	would

Continued.....

"should, ought to, have to and must"

Obligation or advisability

Should and *ought to* are very similar. They both used to talk about obligation or to give advice.

For example:

Obligation (what one is expected to do) → You should (ought to) do your homework every day.

Advisability (what is wise for one to do) → You should (ought to) study hard if you want to have good results in your study.

The degree of should and ought are the same. They use to suggest some actions which may possibly not be acted upon.

Necessity

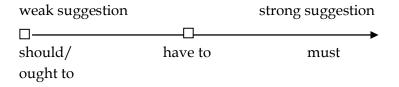
What makes different between necessity and obligation is that necessity does not allow for the possibility of rejection (in term of suggestion).

Must and *have to* are modal auxiliaries which are used to express necessity. They use to give strong recommendation or suggestions.

For example:

You must (have to) read at least 5 articles in Mr. Morriarti's class.

However, **must** is generally felt as stronger than **have to**. Below is the continuum of those modal auxiliaries.



The negative **must** often has different meaning from the negative of **have to**:

Must not	It denotes that it is strongly recommended not to take certain course of	
	action.	
	For example:	
	You must not forget to do your homework because he will not give	
	compensation if you do not do yours.	
Do not have	It denotes that it is not necessary to take certain course of action.	
to	For example:	
	You do not have to bring a pile of books in this class.	

Adapted from Basic English Usage by Michael Swan(1984) and Modern English by Marcella Frank (1972)



You will be given a conversation between two students containing some modal auxiliaries. Analyze the modal auxiliaries used by the speakers with your partner whether the modals are used to express obligation or necessity and give your reasons, after that share your analysis orally with your classmates.

On a free time after the class ends in the afternoon. Molly and Luna are having a chat about the lecture in the campus park.

Luna : It's so refreshing sitting down here after having long lecture.

Molly : I think we should come here often to refresh our mind.

Luna : You're right. Anyway, the last lecture was so tiring. I can't imagine that I

have to remember those all theories about quadrilaterals properties.

Molly : Why should you memorize that? You don't have to do that. You just have

to be familiar with each type of quadrilateral. Just use your logic by

imagining the shape of them.

Luna : I'm with you there.

Well, I actually have one question that I want to discuss with you.

Molly : All right. What is it about?

Luna : About median of trapezium.

Molly : Well, step 1 is that you must know the formula to find EF.

Luna : That's the problem.

Molly : May be you should study more diligently.

All right I'll give you hint. First, you must find the formula by yourself because I won't tell you. Second, before you operate the formula you must find DC. After you find DC, you can apply to the formula and finally you

can find EF.

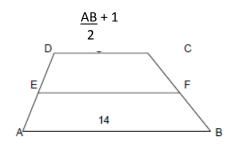
Luna : I hope that you will solve it for me.

Molly : Don't be such a cry baby. Study hard.

Luna : You sound like my mother.

Molly : That's good, I think.

ABCD is a trapezoid with median EF. If DC = AB/2+1cm and AB = 14 cm, find EF.



Solution:

Step 1. Write the formula $EF = \frac{1}{2} (AB+DC)$

Step 2. Find DC

Step 3. Substitute the values of DC and AB into the formula. Solve for EF.



Study the following conversation in pairs and answer the questions based on the conversation.

Lisa : Excuse, are you Mary Watson, professor Snape's assistant?

Watson : Yes, I am.

Lisa : I'm Lisa Putri. I got some assignments from the professor. If you don't

mind, would like to give me some suggestions about them?

Watson : Sure, then.

Lisa : The professor asked us to summarize about quadrilaterals and he said that

we just needed to summarize important suptopics of quadrilateral. After I read some books or any other resources, they all seem to be important but it will be very much. Could you suggest me what I should summarize about

quadrilateral?

Watson : Well, according to you, what subtopics which are considered to be

important to summarize?

Lisa : I have a list of them. I think the properties of quadrilaterals, the

characteristics, area and perimeter.

Watson : Yes, those are important. If I may suggest you, you can add the application

of quadrilateral in real life, the angle of each type of quadrilateral.

Lisa : Can I use some graph or figure?

Watson : Sure. You can use tables or any other graphs. I'd like suggest you to use

family tree of quadrilateral in summarizing the properties.

Lisa : I was thinking about that too.

Watson : Okay, anything else?

Lisa : Can you recommend me what book I can use for the reference? He asked us

to use three or more references.

Watson : Actually there are some modules written by the professor. Just try to look

for them in the library. He never tell his students that he wrote some

modules but if you go to look for them. You will find some.

Lisa : Mary, thank you very much for your suggestions. Those will be

really helpful.

Watson : You're welcome Lisa.

Questions

- 1. What is talked about by Lisa and Mary in the conversation?
- 2. What is the relationship of the speakers?
- 3. According to the conversation, can you identify the level of formality?
- 4. Justify your answer for number three by mentioning the indicators that determine the level of formality of a conversation?
- 5. Can you identify the expressions of asking and giving suggestions in the conversation above? (Mention them).



Study the following explanation with your partner.



Language Functions: Giving Suggestions

Suggestions are not as strong as advice. Might (want to), could, why don't/doesn't

and why not are often used to make suggestions.			
Might (want to) and could	Might (want to) and could are often to express a choice of possible actions. Might is often used with want to.		
	Example: You might ask the librarian the book or you could wait until the professor gives it to us.		
Why not and Why	Why not and Why don't/doesn't are both question forms		
don't/doesn't	and ends with a question mark.		
	Why not and Why don't/doesn't are not very common in		
	conversation. Do not use them in academic writing.		
	Examples:		
	Why not prepare for the exam from now?		
	Why don't you discuss it with your friends?		

Here are other examples of the expressions for making suggestions:

Situation	Expressions	Examples
You give	Let's	Let's draw the concept first.
suggestions to		What about using games?
your friends.	What about, (then)?	
		We could always make an
	We could always	analysis on every question.
In a meeting of	I'd like to suggest/propose	May I suggest limiting the
your organization		invitation, then?
	May/might I suggest,	
	(then)?	If I may make a suggestion,
		voting will do.
	If I may/might make a	
	suggestion	I'd like to suggest him as
		the moderator.

Adapted and combined form Function in English (1992) and Advice and Suggestions from cambridge.com



You will be given some conversations talking about quadrilaterals with some blank parts. Identify the level of formality of the conversations and complete the blanks parts with your own words or the appropriate expressions of asking and making suggestions, then act them out with your partner.

A. Zeta is asking for suggestions to his brother's friend. He is seven years older than Zeta.

George Wiggins : Hi, Zeta. Is your brother's(1)....?

Zeta : He's going to the supermarket

with mom. He said that they will

be home in 10minutes.

Please, come in.

Zeta : Well, my brother said that you

like math.

George Wiggins : Yeah...

Zeta : Actually, I got(2)..... from my lecture.

If you don't mind,....(3)....?

DE = 12 cm EB = $\sqrt{27}$ cm

AD = 13 cm

Ē

George Wiggins : Sure.

Zeta : I find it difficult to solve this question.

Could(4).......of how to solve the question?

George Wiggins : You know how to find area and perimeter of(5)......, right?

Zeta : Yeah...

George Wiggins : First, what about find AE?

Zeta : I've found AE. It is 5 cm but I am bit confuse about CB. Should I

convert the root form?

George : You can just(6)..... in the root form.

Zeta : Oh I se. AD and BC are parallel so BC is 13. Well, I think I know

how to solve the question now.

George : You could change $\sqrt{27}$ into $3\sqrt{3}$.

Zeta : All right, thank you for your(7).....

George : Not at all.

3. Yasmin is having a discussion with her friend about the topic that has been explained by their lecturer.

Yasmin : I haven't(1).... yet about

what had been explained by Mr. Holmes. I often get troubles

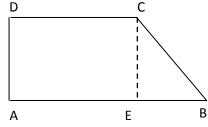
with angles.

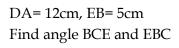
Jane : I think angles in quadrilateral are

quite simple......(2).....we study together, now? The next class

is two hours later from now.

Yasmin : That's good idea.(3)..... sit at that bench.





 \mathbf{C}

В

Jane : All right, then.

Yasmin : Can you explain how to(4)..... this question?

Jane : This is trapezoid. You may add a new dot as E, then draw line from

C to E. Line CE is(5)..... to Line DA so both of them are 12 cm. To

find out EB you can subtract AB with DC, so EB is 5.

Yasmin : Then, I can find line CB by using Pythagoras, right?

Jane : That's right. But why don't you find the angle by using tangent of C

angle so you don't have to find line CB.

Yasmin : Oh, I see.

Jane : Remember. The(6)..... of angles in a triangle is 180 degree.

Yasmin : Yeah. In the end, I can find angle B by subtracting 180 with angle E

and C.

Jane :(7)......

Yasmin : You're so clever, Jane. Thank you.

Jane : Any time.



Task 13

Let's Play a Game.

Play the game according to the following guideline. Use the expressions of asking and giving suggestions you have learned in the previous

Situation:

There are several types of materials containing quadrilaterals which have been recommended by your lecturer but you can't afford all of them. You want to have the most effective material for you to study and surely the most affordable one. In order to get such material, you are going to ask your friends' suggestions about the materials.

How to play:

- Make a group of three or four.
- One of the members will be the one who asks for suggestions and the rest members will be those who make suggestions.
- Those who give suggestions will suggest only one type of materials based on the card. They have to mention the reasons why they have such suggestions by explaining the materials based on the cards.
- After getting all the suggestions, the one who asks for suggestions should make a decision which material she/he will choose.
- Share the decisions with your friends in the classroom and your reasons of choosing such material.

Note: the cards are on the appendices.

C

Let's Do More



Task 14

You will be given some situations. Choose one of the situations and create a dialog talking about quadrilaterals and use the expressions on asking and giving suggestions that you have learned in the previous tasks, then acting out the dialogue with your partners in front of the class.

You have discussion with your partner about the application of quadrilaterals in real life that you are going to present in the class.

You find it difficult to solve a particular problem of quadrilaterals and you want to ask suggestions your professor's assistant.

You can determine the problem by yourself.

You want to ask for suggestions to your friend from the upper semester a good material for studying quadrilateral because you find it difficult to understand about quadrilateral by reading the materials that you have.

You want to ask suggestions to your friend of how to solve a particular problem on complex quadrilaterals.

You can determine the problem by yourself.



"It does not matter how slowly you go as long as you do not stop"

Confusius

D Let's Do Evaluation



Task 15

From the subtopics you have brainstormed in Task 2, choose one of the subtopics and do role play with your partner in front of class using expressions of asking and giving suggestions about the subtopic you have chosen.

E Homework



Task 16

Interview three of your friends on the same departments. You are allowed to interview the upper semester or the lower semester. Ask their suggestions of how to learn quadrilateral easily. Then report your interview results in the class.

F Let's Make Reflections

You have learned all the tasks in this unit. Do reflection based on yourself. Put a tick ($\sqrt{\ }$) mark on the table of Yes/No according to the statements.

Statements	Yes	No
I can recognize the expression used for		
asking and making suggestions		
I can apply easily those expression in		
conversation		
I can improve my pronunciation.		
I can improve my vocabulary mastery.		
Give your comments about this unit and t unit here:	he difficulty that you h	nave when you learn this

Peer Assessment

Ask three of your friends that have worked with you in learning this unit and ask them to give you assessment by putting a thick mark ($\sqrt{}$) on the table of Yes/No according to the statements.

Name of being assessed:

Statement	Name of assessor:		Name of assessor:		Name of assessor:	
			•••••			
				T		
was cooperative						
participated actively in						
the most of activities						
contributed to						
ideas/planning						
was positive and						
helpful						
was responsible in		•				
doing activities.						

Expressions of asking and giving suggestions:

Expr	The level of formality	
Asking for suggestions	Giving suggestions	
If don't mind, would you	If I may make a	More formal
like give me your	suggestion	
suggestions? Would you give me your suggestions?	I'd like to suggest	†
Could you suggest me?		
	We could always	
Do you have suggestions	j	▼
for me?	What about	
Can you tell me what should I do?	Let's	Less formal

Modals and their usage:

Modal	Usage
Should/ought to	To express obligation or advisability. They use to express to give moderate recommendation.
Have to/ must	Have to and must are used to express necessity. They use to give strong recommendation.

LIST OF VOCABULARY

Vocabulary	Part of speech	Pronunciation Transcript	Indonesian Equivalent
angle	noun	/ˈæŋ.gl/	sudut
apply	verb	/əˈplaɪ/	menerapkan
area	noun	/'eə.ri.ə/	luas
base	noun	/beis/	sisi alas
challenging	adjective	/ˈtʃæl.ɪn.dʒɪŋ/	menantang
consider	verb	/kənˈsɪd.ə r /	mempertimbangkan
isosceles	adjective	/aɪˌsɒs. ə l.iːz	sama kaki
kite	noun	/kaɪt/	layang -layang
librarian	noun	/laɪˈbreə.ri.ən/	penjaga perpustakaan
leg	noun	/leg/	sisi kaki pada trapesium
length	noun	/leŋ $k \theta$ /	panjang
may	Modal verb	/meɪ/	boleh
measurement	noun	/ 'meʒ.ə.mənt/	pengukuran
overcome	verb	/ ˌəʊ.vəˈkʌm/	mengatasi
particular	adjective	/pəˈtɪk.jʊ.lə r /	khusus
perimeter	noun	/pəˈrɪm.ɪ.tə r /	keliling bangun datar
property	noun	/pəˈrɪm.ɪ.tə r /	sifat (bangun datar)
recommend	verb	/ˈrek.əˈmend/	menganjurkan
rectangle	noun	/ˈrek.tæŋ.gl/	segi empat
rhombus	noun	/ˈrɒm.bəs/	belah ketupat
side	noun	/saɪd/	sisi
square	noun	/skweə r /	kotak
trapezoium	noun	/ˈtræp.i.zəid/	Trapezium

What I'd Like to Present to You Today is Linear Algebra.



Picture 3.1

How many times do you do presentations every week? How do you organize your presentation? At the end of your presentation, do you always make a generalization/conclusion of the topic that you have been presented?

Algebra is a very well-known part of mathematics. You must have been familiar with it because it is a very broad branch and it is applied in many fields.

In this unit, you are going to learn some expressions to do presentations and make generalizations. You are also going to practise how to use them in presentations using sub topics of algebra.

Let's Get Started



Task 1

Study the following picture and answer the questions.



Let me introduce myself. My name is Ann Brown.

The subject of my presentation is Linear Algebra

In my presentation, I'll focus on the three major issues.

Picture 3.2

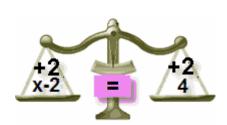
Questions

- 1. What kind of activity does the picture show?
- 2. How often do you do such activity every week in the classroom?
- 3. How do you organize such activity?
- 4. The activity has some parts. Can you mention those parts?
- 5. In every part, you need to use different expressions which signal the part. Can you give an example of the expressions signalling each part?



Task 2

Algebra is a very broad part of mathematics. Write sub-topics of algebra that you have learned or you are going to learn in the available boxes.



Picture 3.3

A	
L	
G	
E	
В	
R	
Α	

B

Let's Take Action



Task 3

Below are some nouns that you are going to find in Task 4. Complete the table below and then pronounce the English words. Do it in pairs and ask your partner to check your pronunciation.

No	English	Parts of Speech	Indonesian	Pronunciation
1	branch	noun	cabang	/bra:n $t \int$ /
2	chart			
3	constant			
4	issue			
5	letter			
6	perception			
7	phenomena			
8	survey			
9	value			
10	variable			



Task 4

Listen to the monologue of a student doing presentation and answer the following questions. And share your answer with your friends.

Questions

- 1. Who is the presenter?
- 2. What is the topic of her presentation?
- 3. How many issues that are going to be presented? What are they?
- 4. How long is her presentation?
- 5. Presentation usually consist of some parts, can you guess how many part of her presentation?
- 6. Mention the part of her presentation
- 7. Do you do the same pattern as the monologue when you do your presentation?
- 8. If you do not do the same pattern as the script above, what are the differences?



Study the following explanation with your partner.



Useful Expressions for Presentation

A presentation can be divided into some parts: opening, main part and closing. In each part of presentation, you need to use different expressions which are appropriate to be used in the each part.

In doing presentation, you may need a lot of expressions such as expression for explaining something, for describing something, for reading a chart or graph, for making generalization and soon. We will learn the expression for reading charts, graph and etc and the expressions of making generalization in the next tasks in this unit.

Below are some examples or useful expression for presentation.

Opening	Main part	Closing
Welcoming audience:	Saying what is coming:	Indicating the end of your
Good morning/afternoon,	In this part, I'd like to talk	talking:
ladies and gentlemen.	about	I'm now approaching the
Hello/Hi everyone.		end of my presentation.
etc		Well, this brings me to the
		end of my presentation.
Introducing yourself:	Indication the end of a	That covers just about
Let me introduce myself.	section:	everything I wanted to say
I'm	This brings me to end of	about
Let me just started by	my first point.	
introducing myself. My		Summarizing points:
name is	Moving to the next part:	To conclude/ in conclusion,
	Let's move on/turn to	I'd like to
Introducing your topic:	This lead directly to my	To sum up (then), we
What I'd like to present to	next point.	
you today is	Let's now take a look at	Making recommendations:
I'm here today to present		We, therefore, recommend
Today, I'm going to talk		that
about		In my opinion, we should
Structuring:		Generalizing:
I've divided my		Broadly speaking,
presentation into three		Generally speaking
(main) parts.		7 1 8
In my presentation I'll focus		
on three major issues		
,		
Timing:		

My presentation will take about 30 minutes. It will take about 20 minutes to cover these issues.

Adapted and Combined from useful phrases for presentation from www.gnosislearning.com, www.courseware.zcu.cz and module of an Introduction of Business English



Task 6

Below is presentation script about sub-topic of algebra with some blank spaces. Complete the blanks with the expressions in the Task 4, then act out the script. Ask your partner to check your pronunciation and gestures.

......(1)......, Everyone.

I'm(2).....

As you have already known that in Linear algebra, we will meet many of linear equations, from the simple one to the complicated one.

Well, to simplify the cumbersome notation for a system in linear system, we can use matrices. Therefore, Today(3)..... the notation of matrices.

In my presentation, \dots (4)...... two main issues. First is the definition of matrix. Second is the percentage of students using matrices to simplify linear equations. And my talk \dots (5)..... 15 minute.

Well, talking about matrix. What is matrix? A matrix is simply a rectangular array of real numbers. An $m \times n$ matrix is an array having m rows and n columns. Let me give an example:

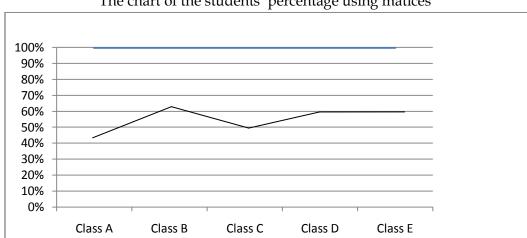
$$A = \begin{pmatrix} a_{11} & a_{12} & \dots & a_{1n} \\ a_{21} & a_{23} & \dots & a_{2n} \\ \vdots & \vdots & \dots & \vdots \\ a_{m1} & a_{m2} & \dots & a_{mn} \end{pmatrix}.$$

If m=n, we say A is square of degree n. the set of all m x n matrices with real entries will be denoted by where R is real numbers.

......(6)..... the next issue.

Take a look on the chart here.

This is the result of my interview to our friends from class A to E regarding of how many students use matrices to simplify linear equations.



The chart of the students 'percentage using matices

The percentage shows the percentage of the number of students who used matrices.

The trend shows that in most classes, more than 50 % students use matrix to solve linear equation.

Well,(7)..... of my presentation.

......(8)....., a matrix is a rectangular array of real numbers which usually use to simplify linear equation in linear algebra. And about more than 50% students of mathematics in the semester four use it to simplify linear equation.

Thank you very much.



The more confident a person stands, the more believable what they are saying becomes.

anonim

For Your Information

In doing presentation, you may need to read some visual aids such as chart, graph or diagram. Below are the expressions which are useful when you use visual aids in your presentation.

Introducing and Explaining visual aids

Take a look at this, Let's have a look at this, Here we can see, I'd like you to look at this.

Highlighting and Commenting visual aids

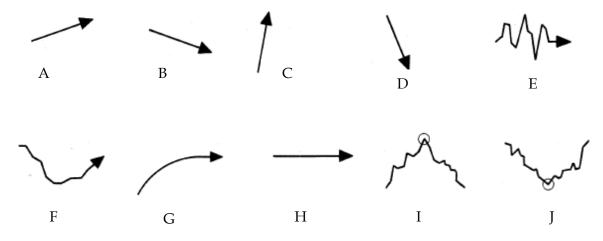
As you can see.....

I'd like us to look at....in more detail.

Interpreting visual aids

I'm sure the implication of this/the conclusions to be drawn from this are clear to all of us.

By using visual aids in your presentation, you have to know how to read them. Below is how to read the change and development in the visual aids.



		1	1	I
A	В	C	D	Е
increase/rise	decrease/fall	shoot up/take	plunge / slump	fluctuate
		off		
Е	F	Н	I	J
Recover/pick	stabilize	remain steady	peak	hit low
up	level off			

Adapted from Presenting in English by Mark Powell (2002)



Study the following sentences and the underlined words. Answer the questions based on the sentences in the box with your partner.

It is because <u>using</u> Gauss's method is fast and easy.

Gauss's method has three operations in solving linear system.

In doing presentation, you may need to use many types of expressions.

- 1. Do you familiar with the form of the underlined words?
- 2. In your opinions, what is the part of speech of those words?
- 3. Do you familiar with gerund?
- 4. If you have familiar with gerund, what is gerund?
- 5. Can you give three examples of gerund?



Task 8

Study the following explanation with your partner.



Grammar: Gerund

A gerund is a **verbal**. It is a word derived from a verb. Though gerunds are verbal, they are act as **nouns**.

For example:

Cheating is not allowed in this class.

I enjoy **reading** books.

The form of gerund look identical to present participles (**verb+ing**) but they do not act as present participles. Gerund "**cheating**" acts as a **noun** (subject of the sentence).

Continued.....

The table below shows the positions of gerund in a sentence:			
Positions	Examples		
Subject of a verb	Cheating is not allowed in the class.		
Object of a verb	I enjoy reading books		
The complement of to be	His bad act was <i>criticizing</i> too much the presenter.		
After prepositions	She is very good in <i>introducing</i> the topic to the audience.		
After determiners [a, the, this, some, a lot of]	The <i>talking</i> is very boring.		
After adjectives	It was a bad <i>timing</i> to discuss about the matter.		
In certain expressions	It's no use <i>trying</i> to help her. It is for <i>pointing</i> to the screen.		

Gerunds are often part of phrases for example:

Arguing about this matter will not give you advantage.

"Arguing about this matter" includes gerund and prepositional phrase, but it is one unit in the sentence acting out as a subject.

Adapted from Grammar Practice for Upper Intermediate Students By Elaine Walker and Steve Elsworth (2000)



Task 9

Identify the mistakes on the second speaker's lines and correct the words by changing them into gerund and then identify the positions of them based on what you have learned about gerund in the previous task. After that, practise the conversations with your partner.



I don't think it can be solved with this method. Will the other method solve it?

Argue like this will not solve it. Just try and decide which one is the best.





I can't wait studying abstract algebra.

I like study linear algebra more than abstract algebra.





This equation is indeed difficult.

You will understand it by practice it again and again.





What should I do in this group work?

What you need to do is share your ideas.





Should I do some preparation before I do my presentation?

Yes. A neat preparation is necessary before do a presentation.





I really need to study hard about advanced linear algebra. I think that the hardest thing about learn algebra is understand abstract algebra



Picture 3.4, 3.5, 3.6, 3.7, 3.8, 3.9, 3.10, 3.11, 3.12, 3.13, 4.14, 3.15, 3.16



Study the following statements and answer the questions. You are allowed to have discussions with your friends in answering the questions.

Statement A:

Generally speaking, Algebra is very broad topic in mathematics.

Statement B:

<u>About more than fifty percent</u> of the students of mathematics in the semester four use matrix to simplify linear equations.

- 1. Do you usually use such statements in the box in your presentations?
- 2. In which part of presentation do you usually find statement like statement A?
- 3. Can you guess the function of statement A in a presentation?
- 4. Do you familiar with the underlined phrases?
- 5. Those phrases are used to express something. Can you guess what are the functions of them?



Task 11

Study the following explanation with your partner.



Language Function: Making Generalizations

Generalization is a broad statement about a group of people or things. It is a specific kind of conclusion. All generalizations are conclusions, but not all conclusions are generalizations. Generalization is kind of summary.

A generalization is formed from a number of examples or facts and what they have in common. Key words which support instruction for generalization are *all*, *none*, *most*, *many*, *always*, *everyone*, *never*, *sometimes*, *some*, *usually*, *seldom*, *few*, *generally*, *in general* and *overall*. You can also make generalizations using numbers such as *ninety percent of the students*, *nine times out of ten*...

Continued....

A true generalization has the following characteristics:

- supported by facts
- agrees with what you already know about the topic
- uses logic and reasoning
- proven with several example

Beside the keywords mentioned before, there are some expressions which can be used to make generalization:

Expressions	Usage	Level of formality
a. In generalb. Generally speakingc. There is tendency for something to	They can be used in official and scientific writing.	Formal
d. On the whole	It can be applied in some business correspondence.	Less formal
e. What normally happens is	It is followed by a sentence describing the normal, event, occurrence or situation.	Less formal
f. Usually	It refers to the high frequency of the statement being true.	Less formal

Adapted and combined from www.learner.org, www.falibo.com and Reading Skill Lesson Wetumpka Intermediate School.



Task 12

Study the following situations. Make a generalization for each situation orally using the expressions that you have learned in the previous task and ask your partner to check whether your generalizations are valid or not. Situation A has been done for you.

A

I can understand easily the law on the arithmetic operations.

My friends can solve the questions easily using the law on arithmetic operations. I haven't heard my friends complaining in studying the law on arithmetic operations.

Generalization:

The law on arithmetic is an easy operation for most of my friend in the class

В.
Students show enthusiasm in studying fraction. Students can solve the questions containing fraction with the same denominators in less than 3 minutes. Students can solve most the questions given by lectures containing fraction with the same denominators and different denominators.
Generalization:
C.
Some students say that they need to read the book twice or more to understand quadratic formulas. A few of students can solve particular quadratic formulas in less than seven minutes and have right answers.
Generalization:
D.
The lecture needs two meeting only to discuss linear algebra. Only few students get bad marks on linear algebra. Students look happy studying linear algebra.
Generalization:



"The more that you read, the more things you will know. The more that you learn the more places you'll go"

Dr.Seuss



Below is the material for presentation. Make a group of three and each of members should do presentation with the material and using the appropriate expressions that you have learned in the previous tasks. Apply gerund and generalization in your presentation and give your friends feedback for her/his presentation. If necessary, you can add some information related to the material.

Linear System and the Gauss's Method

Linear system

Linear system is a system which has linear variable

The combination $3x1 + 2x2$	They are linear.
$3x_1^2 + 2\sin(x_2)$	They are not linear.

The first example is linear because in each system of the equations involve only the first power of each variable.

Gauss's Method

Gauss's method is the fastest and easiest method to solve linear system. Gauss's method is safe to solve linear system because it never losses solution and it never picks up extraneous solution

The Theorem of Gauss's Method:

If a linear system is changed to another by one of these operations

- 1. an equation is swapped with another
- 2. an equation has both sides multiplied by a nonzero constant
- 3. an equation is replaced by the sum of itself and a multiple of another then the two systems have the same set of solutions

Adapted from Linear Algebra from Jim Hefferon (2013)

C

Let's Do More



Task 14

Choose one of the topics below and present it in front of the class. Use the expressions that you have been learned in the previous tasks and apply gerund and generalization in the presentation. You may use power point to help you presenting the topic. The duration of your presentation cannot be longer than 10 minutes.

Basis in Vector Spaces

A basis for a vector space is a sequence of vectors that is linearly independent and that spans the space.

Dimension in Vector Spaces

A vector space is finite-dimension if it has a basis with only finitely many vectors.

Matrix Multiplication

Classification of Differential Equation

Differential equation is an equation containing the derivates of one or more dependent variables, with respect to one or more independent variables. Differential equation is classified by type, order, and linearity.

Autonomous Equation of Differential Equation

Autonomous equation is an equation in which the independent variables do not appear explicitly.

Exact equation of differential equation

D

Let's Do Evaluation



Task 15

Work in group of four and do the following activity.

No	How to do
1	Each member of the group should do a presentation.
2	Choose your own topic related to algebra and present it in front of the class. Use the expressions that you have been learned in the previous tasks and apply gerund and generalization in the presentation. You may use power point to help you presenting the topic. The duration of your presentation cannot be longer than 10 minutes
3	 The other members should evaluate the presentation. Therefore the presentation of the entire member of the group will be evaluated. Evaluation checklist: Topic (is the topic related to algebra?) Expressions (is the presenter using appropriate expressions in every part of her/his presentation?) Does she/he apply gerund in her/his presentation? What are they? Does she make any generalizations on her/his presentation? What are they? Are the generalizations valid/not? Give the reasons.
4	The results of evaluation should be shared in the class.

E

Homework



Task 16

Do a survey to five friends who do not join the English speaking club to find out how they do their presentations and ask them whether they use expressions as you have been learned in this unit or not and then report the results of the survey in the class

F Let's Make Reflections

You have learned all the tasks in this unit. Make a reflection based on yourself. Put a tick ($\sqrt{\ }$) mark on the column of Yes/No according to the statements.

Statemen	ts		Yes		No	
I can recognize the expression used for						
making generalizations.						
I can recognize the expre	ssion used f	or				
doing presentation.						
I can apply easily the exp	ressions of					
making generalization in	conversatio	ons				
and presentation.						
I can apply easily the exp	ressions use	ed				
for presentation in a pres	entation.					
I can recognize and apply presentation.	gerund in	a				
I can improve my pronur	nciation.					
I can improve my vocabu	ılary master	y.				
unit here:						
Statement	Name of a			assessor:	Name of	assessor:
was cooperative						
participated actively in						
the most of activities						
contributed to						
ideas/planning						
was positive and helpful						
was responsible in						

doing activities.

G

Summary

Making generalization

Key words of making generalization:

all, none, most, many, always, everyone, never, sometimes, some, usually, seldom, few, generally, in general and overall.

A valid generalization is supported by facts, proven with several examples and uses logic and reasoning.

Gerund

A gerund is a verbal that ends in *-ing* and functions as a noun. It occupies some positions in a sentence such as, as a subject, as an object, a subject complement (the complement of to be), as object of prepositions (after preposition) and etc.

Doing presentation

A presentation usually divided into three parts which are introduction or opening part, main part and closing part. In each part you need to use different expression and jobs.

In the opening part, you introduce yourself and your topic or even do some brainstorming related to the topic. In the main part, you explain the issues that you take, while in the closing part, you give some conclusion of you have presented and some recommendation (if it is necessary).

VOCABULARY LIST

English	Parts of speech	Pronunciation Transcription	Indonesian
assign	verb	/əˈsaɪn/	menugaskan
branch	noun	/bra:n $t \int$ /	cabang
broad	adjective	/bro:d/	luas
common	adjective	/ˈkɒm.ən/	lazim
complement	noun	/ˈkɒm.plɪ.ment/	pelengkap
correspondence	noun	/ kɒr.ɪˈspɒn.dən t s/	korespondensi/ persesuaian
deliver	verb	/dɪˈlɪv.ə r /	mrnyampaikan
denominator	noun	/dɪˈnɒm.ɪ.neɪ.tə r /	bilangan penyebut
equation	noun	/ıˈkweɪ.ʒ ə n/	persamaan
exercise	noun	/ˈek.sə.saɪz/	latihan
extraneous	adjective	/ıkˈstreɪ.ni.əs/	tak berhubungan
figure out	verb	/ˈfɪg.ə r aʊt/	menemukan
instruction	noun	/ɪnˈstrʌk.∫ə n/	instruksi
major	adjective	/ ˈmeɪ.dʒə r /	penting
noise	noun	/nəɪz/	kegaduhan
occurrence	noun	/əˈkʌr. ə n t s/	kejadian
official	adjective	/əˈfɪʃ. ə l/	resmi
phenomena	noun	/fəˈnɒm.ɪ.nə/	kejadian/gejala
quiet	adjective	/kwaɪət/	tenang
review	verb	/rɪˈvjuː/	tinjauan
submit	verb	/səb'mɪt/	menyerahkan
scientific	adjective	/ˌsaɪənˈtɪf.ɪk/	ilmiah
surface	noun	/'sa:.fis/	permukaan
theorem	noun	/ˈθɪə.rəm/	dalil
value	noun	/ˈvæl.juː/	nilai
weightlifting	noun	/ˈweɪtˌlɪf.tɪŋ/	angkat beban

References

Alexander, L.G. 1990. Longman English Grammar Practice for Intermediate Students. Essex: Addison Wesley Longman Ltd.

Blundell, Jon., Higgens, Jonathan & Middlemiss, Nigel. 1982. Function in English. Hong Kong: Oxford University Press.

Suciati. Module of Introduction of Business English. Universitas Negeri Yogyakarta.

Powell, Mark. 2002. Presenting in English. Boston: Heinle.

Walker, Elaine & Elsworth, Steve. 2000. *Grammar Practice for Upper Intermediate Students*. Essex: Pearson Education Ltd.

Advice and Suggestions: the Right Job. Retrieved from www.cambridge.org

English for Presentation: Useful Phrases and Vocabulary. Retrieved from www.gnosisleraning.com

Giving Presentation: Useful Phrases. Retrieved from www. coursewave. zco. cz

Making Generalization. Retrieved from www.learner.org

Making Generalization. Retrieved from www. falibo.com

The List of Pictures

Cover

Picture 1 : Taken from www.google.com
Picture 2 : Taken from www.ceist.ie
Picture 3 : Taken from www.marion.com

Unit 1

Picture 1.1 : Taken from www.olnefriends.org
Picture 1.2 : Taken from cjreach.worpress.com
Picture 1.3 : Taken from www.ppst.com
: Taken from www.marion.com

Unit 2

Picture 2.1 : Taken from www.google.com
Picture 2.2 : Taken from www.google.com
Picture 2.3 : Taken from www.google.com
: Taken from www.kwisnet.com

Unit 3

Picture 3.1 : Taken from blog.loyola.edu

Picture 3.2 : Taken from primarytech.global2.vic.edu Picture 3.3 : Taken from primarytech.global2.vic.edu

: Taken from www.google.com Picture 3.4 Picture 3.5 : Taken from www.google.com Picture 3.6 : Taken from www.google.com : Taken from www.google.com Picture 3.7 Picture 3.8 : Taken from www.google.com : Taken from www.google.com Picture 3.9 Picture 3.10 : Taken from www.google.com Picture 3.11 : Taken from www.google.com Picture 3.12 : Taken from www.google.com : Taken from www.google.com Picture 3.13 Picture 4.14 : Taken from www.google.com Picture 3.15 : Taken from www.google.com Picture 3.16 : Taken from www.google.com

Appendices

UNIT 1: Task 4

Colby and Fita are roommate. They attend the same college. They even go to the same department which is mathematics department. Now, they are studying for tomorrow's class.

Colby: Have you read some materials for the next meeting? Fita: Yeah, a bit. But those materials are very complicated.

Colby: What about read mine? I got them from internet and they're simpler than yours.

They explain about integer in a very simple and clear way.

Fita : I think that's a good idea. Thank you.

Colby: Anytime. I believe that studying integer will not be boring.

Fita : Really? Why?

Colby: You have read some materials about it. Don't you find it interesting?

Fita : As I see it, it's quite interesting but it will no longer interesting if this time the professor gives us abundant assignment as before.

Colby: Don't you think that you're exaggerating?

Fita : Not really.

Colby: Integer is a number that can be written without fractional or decimal component.

I think it's quite easy and interesting though may be the professor will give quite a lot assignments.

Fita : Why are you so interested in Integer?

Colby: Because it is applicable for our daily life, that's why I like it. As you know that studying integer means dealing with negative and positive number. In our daily life those number are needed to represent physical quantities for example in temperature, altitude and the amount of money.

Fita : Can you explain it more?

Colby: No problem. For example, you can say "the altitude of death valley is 282 feet below the sea level meaning that the altitude is minus 282 feet.

Fita : I got it, so if the temperature in Chicago is 10 degree of Fahrenheit below zero meaning that the temperature is minus 10 degree of Fahrenheit?

Colby: That's right.

Fita : That's quite easy but we are not only going to study about those kinds of things right?

Colby: Of course not. I've already read it that we are going to learn how to add and subtract integer and also multiply and divide integer. What do you think? It's interesting, isn't it?

Fita: I'm not sure.

Colby: Are you afraid of this?

Fita : Just a little bit.

UNIT 1: Task 8

Ashley : Have you read the paper that the professor assigned for tomorrow

class? I think it's quite interesting.

Sinta : No. Not yet. What is it about?

Ashley : It's about integers. There are some questions that should be solved in

pairs and we are going to have group discussion tomorrow.

Sinta : Well, to my mind, it isn't interesting at all.

Ashley : By the way, let's study together. We need to solve all the questions.

Sinta : All right, professor sometimes likes to give unexpected questions to

his students.

Ashley : What about dividing the questions? Each of us do five questions. Sinta : I believe we'll get better understanding if we discuss it together.

Ashley : All Right, then.

Snta : Are decimals, fraction and percents included in integer?

Ashley : No, Integers are whole numbers and their negative opposites.

Sinta : Meaning that it includes positive whole numbers, negative whole

numbers and zero?

Ashley : That's right.

Sinta : Do you know the symbol representing integer?

Ashley : Well, I've read the materials about it before. Hmmmm...it's alphabet

zi, capital zi. Zi stands for Zahlen, it's used to denote set of integers.

Sinta : I see. It's quite easy. What do you feel?

Ashley : I feel the same as you.

Sinta : What issues do we have to solve on integers?

Ashley : Not so many. It's about adding, subtracting, multiplying and

dividing Integers, especially the roles of all of them.

Sinta : There is only 15 minutes left before the next class start. Let's continue

our discussion after the class ends.

Ashley : Okay.

UNIT 1: Task 12

Flo	Sam		
You wouldn't mind if Sam or Alex gets the	You wouldn't mind if Alex or Terry gets		
position. Sam is very efficient and Alex is a	the position. Alex is a cheerful sort of		
nice cheerful person. But you're hope that	person and Terry is good-natures. But you		
it's not Terry or Pip. Terry is very bad-	hope it's not going to be Pip or Robin. Pip		
tempered and Pip is hopeless at figures	is absolutely hopeless at figures and Robin		
	is so rigid and narrow-minded.		
Alex	Terry		
You wouldn't mind if Terry or Pip gets the	You wouldn't mind if Pip and Robin gets		
position. Terry is very good-natures and	the Job. Pip is very careful and precise:		
kind and Pin is very careful; and precise:	very flexible and open-minded. But it		
very good with figures. But it would be a	would be terrible if Jan or Chris got the		
disaster to have Robin is so narrow-minded	positions. Jan is totally disorganized and		
and Jan is so careless and disorganized.	Chris is so pompous.		
Pip	Robin		
You wouldn't mind if Robin or Jan gets the	You wouldn't mind if Jan and Chris gets		
positions. Robin is a very tolerant and	the positions. Jan is very competent and		
flexible person. Jan is very organised. But	organized and Chris is a nice,		
you'd hate to have to work for Chris or Flo.	o. unpretentious down-to-earth sort of		
Chris is so unbelievably pompous and Flo	person. But it would be disaster if Flo or		
is so indecisive.	same got the position. Jo is weak and		
	indecisive and Sam is very inefficient.		

UNIT 2: Task 4

Devi and Grace are doing their homework to create quadrilateral family tree from their professor.

Devi : Grace are you sure we are able to finish all of these this afternoon? We

haven't classified the quadrilaterals yet and we have to create each shape of them precisely. You know that the professor is very thorough. He won't

leave any single part.

Grace : I know but don't worry I have got the design for creating quadrilateral

family tree. Just follow the design.

Devi : All right then, what about classify the shapes first and determine their

measurements so that we will find out how many papers we need to make

the family tree.

Grace : let's do so. Shall we start right now?

Devi : sure.

Grace : Well, we will do with four-sided polygon so it will be simple.

Devi : Then, let me write down the classification.

Grace : Four-sided polygon is divided into three. They are parallelogram, kite and

trapezoid. Parallelogram and trapezoid are divided again based on their types. Parallelogram has two types, rectangle and rhombus. All of them are

square. For the trapezoid, there are two types as well, right trapezoid and

isosceles trapezoid.

Devi : What about kite?

Grace : Kite is only kite. It is not mentioned in the book that kite has various types.

Devi : Then we need four different colors of papers. One for the base, the thicker

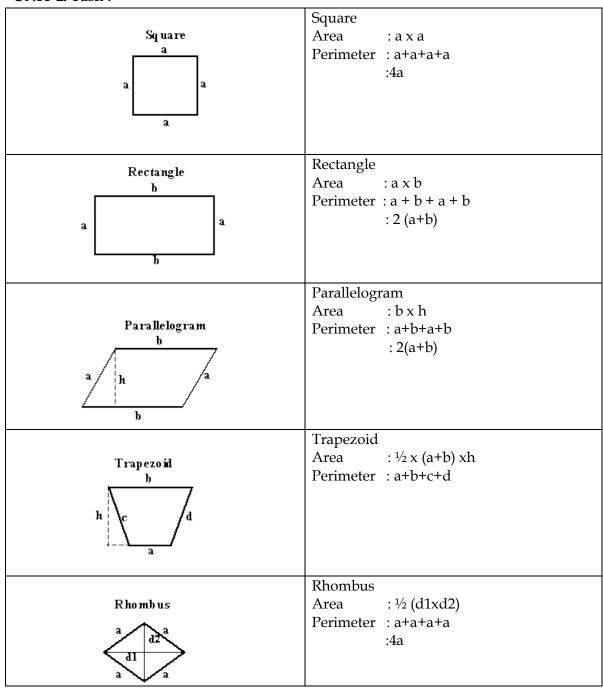
paper and the rest will be for each type.

Grace : Sounds good. Lets' buy them right now. I'll get the motorcycle key in my

brother's room.

Devi : Alright.

UNIT 2: Task 7



UNIT 2: Task 12

First conversation

Zeta is asking for suggestions to his brother's friend. He is seven years older than Zeta.

George Wiggins : Hi, Zeta. Is your brother's home?

Zeta : He's going to the supermarket with mom. He said they will be home

in 10 minutes. Please, come in.

George Wiggins : Thank you.

Zeta : Well, my brother said that you like math.

George Wiggins : Yeah...

Zeta : Actually, I got assignments from my lecture. If you don't mind,

would you like to help me?

George Wiggins : Sure.

Zeta : I find it difficult to solve this question. Could you give suggestions

how to solve the question?

George Wiggins : You know how to find area and perimeter of parallelogram, right?

Zeta : Yeah...

George Wiggins : First, what about find AE?

Zeta : I've found AE. It is 5 cm but I am bit confuse about CB. Should I

convert the root form?

George : You can just write in the root form.

Zeta : Oh I se. AD and BC are parallel so BC is 13. Well, I think I know

how to solve the question now.

George : You could change $\sqrt{27}$ into $3\sqrt{3}$.

Zeta : All right, thank you for your suggestions.

George : Not at all.

Second conversation

Yasmin is having a discussion with her friend about the topic that has been explained by their lecturer.

Yasmin : I haven't understood yet about what had been explained by

Mr. Holmes. I often get troubles with angles.

Jane : I think angles in quadrilateral are quite simple. Shall we study

together, now? The next class is two hours later from now.

Yasmin : That's good idea. Let's sit at that bench.

Jane : All right, then.

Yasmin : Can you explain how to solve this question?

Jane : This is trapezoid. You may add a new dot as E, then draw line from

C to E. Line CE is parallel to Line DA so both of them are 12 cm. To

find out EB you can subtract AB with DC, so EB is 5.

Yasmin : Then, I can find line CB by using Pythagoras, right?

Jane : That's right. But why don't you find the angle by using tangent of C

angle so you don't have to find line CB.

Yasmin : Oh, I see.

Jane : Remember. The sum of angles in a triangle is 180 degree.

Yasmin : Yeah. In the end, I can find angle B by subtracting 180 with angle E

and C.

Jane : That's right.

Yasmin : You're so clever, Jane. Thank you.

Jane : Any time.

UNIT 2: Task 13

Book 1	Book 2
The language is complicated, so it's a bit	The language is middle level. The explanation
difficult to understand the explanation but	is clear but it provides less examples.
the book provides detail examples.	Price: Rp. 50,000
Price: Rp. 45,000	
Book 3	Book 4
The language is easy but the explanation	The language is middle level, the explanation
and the examples are not detail.	and the examples are detail and clear.
Price: Rp. 42,500	Price: Rp. 47,500

Unit 3: Task 4

There is a student who is doing presentation about a topic in mathematics.

Morning Everyone,

I'm Irina Blacksmith. As students of mathematics Education department, we study some subjects which are related to algebra or even the subjects which belong to subtopics of algebra. Therefore, Today, I'm going to talk about algebra. In my talk, I'll focus on two main issues. First is algebra and the second is the results of my survey in figuring out my classmates' perception about algebra. My talk will be about 15 minutes. If you have questions, please save your questions for the Q&A section.

Let's move to next part. Well, what is algebra? Algebra is a branch of mathematics that uses letters in place of some unknown numbers. What's need to remember that most of the letters used in algebra have two functions. First is as variable in which the value of the letter can change. The second is the letters that stand as constants where the value does not change.

I've read some articles about the history of algebra and I'll tell the result of my reading that at first, algebra is similar to arithmetic in which, as I mentioned before, letters are used to replace numbers. However, as it is developed, algebra extends to non-numerical object such as linear algebra and abstract algebra. Those two branches of algebra are the topics that students usually learn in college.

I'm sure that most of the students here have been familiar with algebra because many of us have studied algebra, unconsciously, since we were in senior high school.

We, right now, are studying linear algebra and later on we are going to study abstract algebra. While studying linear algebra I see phenomena on our classroom that many of students included me find this topic as quite difficult topic. What usually happens when students find a difficult topic is they study it diligently or they feel unmotivated in studying it. What happens to us is 50:50. You can have a look at this chart that fifty percent

of the students study it diligently and practice them again and again. On the other hand, another fifty percent of them tend to avoid the topic. They don't feel motivated on studying it. I gathered some comments from them and they said "another day passed and I didn't use algebra once", "linear algebra is like weightlifting for my brain" and etc. Moreover, I found a note of one of them that "Algebra please stop ask me to find x because she will never come back". That's quite funny note, isn't that?

Friends, well, that brings me to the end of my presentation.

Generally speaking, Algebra is very broad topic in mathematics. It is a branch of mathematics which uses letters to substitute unknown numbers and algebra has some subtopics. And talking about the phenomena in this classroom, many of our friends find linear algebra as difficult subject but there are two patterns of them in facing the topic which are they diligently study the topic and some of them complain a lot in studying the topic.

So, for those who find it difficult in studying linear algebra, I recommend you to join Study Club, because in the study club we share, discuss and solve together our difficulties in learning mathematics. Moreover, it's so much fun to study together.

Thank you very much.

DESCRIPTIONS OF UNIT 1, 2 AND 3 OF THE FIRST DRAFT

OF DEVELOPED SPEAKING LEARNING MATERIALS

The Description of Unit 1

UNIT 1

Title: In my opinion, integer is an interesting topic.

This unit encourages the students to study how to ask for opinions and give opinions in conversations while discussing integer and study adjectives.

A. Let's Get Started

As an introduction part, it contains two tasks which serve as prompter to introduce the topic and language functions that are going to learn.

Task 1 Instruction:

Study the following picture and answer the questions

Description:

This task is designed to introduce language functions that are going to learn in the unit. The task contains a picture to illustrate the activity that they will have in the unit. A situation is given which represents the activity in the picture and four comprehension questions are provided to dig up the students' knowledge about the language functions that are going to learn and to introduce the language function as well.

Task 2

Instruction:

Below is a mind map of integers. Think about integers and write the things that you usually learn in integers on the chart.

Description:

This task is designed to prompt and brainstorm the students' knowledge about the topic that is going to discuss in the unit.

The mind map contains six boxes in which the students are asked to complete the boxes with the things related to the topic. A picture is provided in the mind map in order to give overview of the topic.

B. Let's Take Action

This part contains a number of tasks in which the tasks are provided in order to achieve the learning objectives.

Task 3

Instruction:

Below are some adjectives and adverbs that you are going to find in Task 4. Complete the table and then pronounce the English words, Do it in pairs and ask your partner to check your pronunciation.

Description:

This task is designed to scaffold the students for the listening task in the next task and to develop students' pronunciation. The students are

	asked to complete the table by referring to the provided words and
	practice to pronounce the provided words.
Task 4	Instruction: You will listen to a conversation containing some expressions of asking and giving opinions about something. Listen carefully and take notes for important information, then answer the following questions according to the conversation.
	Description: This task is designed to give listening practice for the students. In this task the students are introduced with some of expressions in asking and giving opinions in a conversation about integer. There are ten comprehension questions and the students are asked to answer the questions after listening to the conversation in order to check students' understanding of the conversation.
Task 5	Instruction:
	Study the following explanation with your partner. Description: This task is designed to give explanation of expressions of asking and giving opinions. The students are asked to study the explanation of expressions of asking for and giving opinions with their partners. The explanation covers expressions of asking and giving opinions in particular situations and level of formality.
Task 6	Instruction:
Task o	Study the following dialogue in pairs and identify the expressions of asking and giving opinions and the level of formality then practice the dialogue with your partner.
	Description: This task is designed to check the students' understanding of expressions of asking and giving opinions and give the students opportunity to practice speaking by practicing the dialogue which contain expressions of asking and giving opinions. In this task, the students are asked to identify the expressions of asking and giving opinions and the level of formality of the expressions.
Task 7	Instruction: You will be given a conversation of two students talking about integers with some blank spaces. Complete the blanks using expressions of asking and giving opinions in the left box and adjectives and adverbs in the right box, then act it out with your partner.
	Description: This task is a guided task. It is designed to give opportunity to the students to use expressions of asking and giving opinions in a conversation, practice speaking and study some vocabulary. The students are asked to complete the blank spaces in the conversation with the expressions of asking and giving opinions and some

	avareasions of asking and giving aninians and adjectives and adverte
	expressions of asking and giving opinions and adjectives and adverbs in the boxes and practice the conversation with their partners.
Task 8	Instruction: Let's Play Survey Game
	Interview 5 or your friends. Ask their opinions about integer and their
	reasons of having such opinions. The words in bracket will help your
	friends in giving their opinions about integer. You have to fill the
	table below and then share it to your friends in front of the class.
	Description:
	This task is designed to provide game for applying expressions of
	asking and giving opinions about integer in conversation. The
	students are asked to interview five of their friends in order to find
	out their opinions about integer and their reasons and share the results in the classroom.
Task 9	Instruction:
Task 9	
	Complete the following situations with expressions in Task 5 or any
	other responses and then identify the relationship of the speakers and
	the level of formality. Using the completed situation, practice them
	with your partner. Number one has been done for you.
	Description:
	This is semi-guided task. This task is designed to provide speaking
	activity in which the students can apply the expressions of asking and
	giving opinions in the conversations and to check students
	understanding of the use of such expressions in different level of
	formality. Before practice the conversations, the students are asked to
	complete the conversations with the expressions of asking and giving
	opinions or other responses based on the level of formality of the
T 1 10	situation.
Task 10	Instruction:
	Study the following explanation with your partner.
	Description:
	This task is designed to provide explanation of adjectives such as the
	formation of adjectives and the positions of adjectives. The students
	are asked to study the explanation in pairs.
Task 11	Instruction:
	After studying adjectives in the previous task, restate the following
	sentences using correct adjectival forms. Discuss with your partner
	and share your discussion with your friends orally.
	Description:
	This task is designed to check the students' understanding about
	adjectives. The students are asked to restate some statements using
	correct adjectival form and share with their friends.
Task 12	Instruction: Let's Play Game
	You will be given a game on asking and giving opinions. Study the
	game's rules and play the game based on the rules with your
	classmates. Do some rehearsal before playing the game.
	Description:
	1 *

This task is designed to provide a game for students to apply expressions of asking and giving opinions and adjectives. This task also aims to develop students' vocabulary mastery of adjectives. In this task the students meet some adjectives which are new for them.

C. Let's Do More

This part consists of one task to apply what the students have learned in the previous tasks.

Task 13 Instruction:

You will be given some situations. Choose one of the situations and create a dialogue talking about integers and use the expressions of asking and giving opinions that you have learned in the previous tasks, then acting out the dialogue with your partner in front of the class. The dialogue should be 200-250 words long.

Description:

This task is designed to provide the students to practice speaking using the expressions of asking and giving opinions that they have learned in the previous task, adjectives and the provided topic. There are 5 topics in which the students are asked to perform a dialogue using one of the topics

D. Let's Do Evaluation

The evaluation task is intended to evaluate the students about what they have learned in the unit.

Task 14 | Instruction:

From the subtopics you have brainstormed in Task 2, choose one of the subtopics and do a role play with your partner in front of the class using the expressions of asking and giving opinions about one of the subtopics you have chosen.

Description:

This task is designed to evaluate the students about what they have learned in the unit. The students are asked to do role play using the expressions and adjectives that they have learned. The students are not provided with any scaffolding. They have to use the topic that they have brainstormed in Task 2.

E. Homework

Homework task is real-world task in which the students have to apply what they have learned in the classroom outside the classroom.

Task 15 | Instruction:

Interview three of your friends in the same department. You are allowed to interview the upper semester or the lower semester. Ask their opinions about the advantages and disadvantages of studying integers. Then report your interview results in the class.

Description:

This task is designed to provide real-world task for the students. They are asked to do interview of three of their friends in the same department which is Mathematics department about the advantages and disadvantages of studying integers. By doing this task, the

students can apply what they have learned inside the class outside the class.

F. Let's Make Reflections

This part aims to provide self-assessment and peer-assessment for the students so that they are able to measure their ability after learning the unit.

G. Summary

This part is intended to provide the students, the summary of language functions and grammar that they have learned in the unit.

H. Vocabulary List

The vocabulary list aims to give the students review of vocabulary that they have met in the unit. The vocabulary list covers the English words, parts of speech, pronunciation transcription, and Indonesian equivalent.

The Description of Unit 2

UNIT 2

Title: We could find articles on quadrilaterals in the library.

This unit encourages the students to study the expressions of asking and giving suggestions using quadrilaterals as the topic and to study modals.

A. Let's Get Started

As an introduction part, it contains two tasks which serve as prompter to introduce the topic and language functions that are going to learn.

Task 1 | Instruction:

Study the following picture and answer the questions.

Description:

This task is designed to introduce language functions that are going to learn in the unit. The task contains a picture to create situation for the comprehensive questions. There are six comprehension questions to lead the students to the expressions that are going to learn in the unit. This task also aims to dig up the students' knowledge about the language functions that are going to learn in this unit.

Task 2

Instruction:

Below is a mind map of quadrilaterals. Think about quadrilaterals and write the things that you usually learn in quadrilaterals on the chart.

Description:

This task is designed to prompt and brainstorm the students' knowledge about the topic that is going to discuss in the unit.

The mind map contains four boxes in which the students are asked to complete the boxes with the things related to the topic. A picture is provided in the mind map in order to give overview of the topic.

B. Let's Take Action

This part contains a number of tasks in which the tasks are provided in order to achieve the learning objectives.

Task 3

Instruction:

Below are some verbs and nouns that you are going to find in Task 4. Complete the table and then pronounce the English words. Do it in

pairs and ask your partner to check your pronunciation. Description: This task is designed to scaffold the students for the listening task in the next task and to develop students' pronunciation. The students are asked to complete the table by referring to the provided words and practice to pronounce the English words in the table. Task 4 Instruction: You will listen to a conversation containing some expressions of asking for something. Listen carefully and take notes for important information, then tell orally the main point if the conversation to your partner. Ask your partner to tell back to you and compare whether you and your partner have the same understanding or not. The words below will help you in telling the main point of the conversation. Description: This task is designed to give listening practice and speaking practice for the students. In this task the students are introduced with expression of asking for suggestions in a conversation by using quadrilateral as the topic. The speaking practice which is telling the main point of the conversation is intended to check students understanding about the content of the conversation. Task 5 Instruction: Study the following explanation with your partner. Description: This task is designed to give explanations of expressions of asking for suggestions. The students are asked to study the explanation of expressions of asking for suggestions with their partners. The explanation covers expressions of asking for suggestions and level of formality of the expressions. Task 6 Instruction: Below are two conversations talking quadrilateral with different level of formality. Complete the blanks parts in each conversation using the appropriate expressions of asking for suggestions or any other responses in the brackets, then act them out with your partner. Description: This task is guided speaking task. This task is designed to check students' understanding after they are given explanation of the expressions of asking for suggestions and to develop the students' vocabulary mastery. The students are provided with the conversation with different level of formality in which each of the conversations has some blanks parts and the students are asked to complete the conversations using phrases or words in the brackets, then acting out the conversations with their partner. Task 7 Instruction: Let's Play a Game Play information-gap game below based on the card you are going to receive. Description:

	This took is designed to annually a series for a sufficient series of
T. J. O.	This task is designed to provide game for applying expressions of asking for suggestions about quadrilaterals. The students are given scaffolding by the cards. In this game, the students are asked to find their friends which have the same card with hers/his and ask for suggestions to solve the questions written on the cards by using the expressions of asking for suggestions.
Task 8	Instruction: Study the following explanation with your partner.
	Description: This task is designed to give explanations about modals. The explanation covers modals, the use of modals and the examples of the application of modals.
Task 9	Instruction: You will be given a conversation between two students containing some modals auxiliaries. Analyze the modal auxiliaries used by the speakers with your partner whether the modals are used to express obligation or necessity and give your reasons, after that share your analysis orally with your classmates.
	Description: This task is designed to check the students' understanding after studying the explanations of modals in the previous task. The students are asked to analyze the modal auxiliaries and their usage in the conversation and justify their answer by giving reasons and after that they are asked to share orally their analyses to their classmates.
Task 10	Study the following conversation in pairs and answer the questions based on the conversation.
	Description: This task is designed to introduce the expressions of giving suggestions. The students are provided with a conversation of two people talking about quadrilateral in which the speakers in the conversation use the expressions of asking and giving suggestions. There are five comprehension questions in this task which aim to check the students understanding of the conversation. After studying the conversation, the students are asked to answer the questions based on the conversation.
Task 11	Instruction: Study the following explanation with your partner.
	Description: This task is designed to give explanations of expressions of giving suggestions. The explanation covers some expressions of giving suggestions and the examples of them in sentences. The students are asked to study the explanation with their partners.
Task 12	Instruction: You will be given some conversations talking about quadrilaterals with some blank parts. Identify the level of formality of the conversation and complete the blank parts with your own words or

the appropriate expressions of asking and giving suggestions, then act them out with your partner.

Description:

This is semi-guided speaking task. This task is designed provide speaking activity for the students. In this task the students are asked to complete the conversations with the expressions of asking and giving suggestions based on the level of formality of the conversations and then acting out the conversations with their partners. This task also serves the students to develop their vocabulary mastery through finding the right words for filling in the blank parts in the conversations by considering the context in the conversations.

Task 13

Instruction: Let's Play a Game

Play the game according to the following guideline. Use the expressions of asking and giving suggestions that you have learned in the previous tasks.

Description:

This task is designed to provide game for the students in order to apply the expressions that have learned in this unit in fun way. The students are asked to do the game based on the cards that they are going to receive and the guideline in doing the game.

C. Let's Do More

This part consists of one task to apply what the students have learned in the previous tasks.

Task 14 Instruction:

You will be given some situations. Choose one of the situations and create dialogue talking about quadrilaterals and use the expressions of asking and giving suggestions that you have learned in the previous tasks, then acting out the dialogue with your partner in front of the class.

Description:

This task is designed to provide the students to practice speaking using the expressions of asking and giving suggestions that they have learned in the previous task, adjectives and the provided topic. There are 4 situations in which the students are asked to perform a dialogue using one of the situations in front of the class.

D. Let's Do Evaluation

The evaluation task is intended to evaluate the students about what they have learned in the unit.

Task 15 | Instruction:

From the subtopics that you have brainstormed in Task 2. Choose one of the subtopics and do role play with your partner in front of the class using expressions of asking and giving suggestions about the subtopic that you choose.

Description:

This task is designed to evaluate the students about what they have

learned in the unit. The students are asked to do role play using the expressions and modals that they have learned. The students are not provided with any scaffolding. They have to use the topic that they have brainstormed in Task 2.

E. Homework

Homework task is real-world task in which the students have to apply what they have learned in the classroom outside the classroom.

Task 16 | Instruction:

Interview three of your friends in the same department. You are allowed to interview the upper semester or the lower semester. Ask their suggestions of how to learn quadrilateral easily. Then, report your interview results in the class.

Description:

This task is designed to provide real-world task for the students. They are asked to do interview of three of their friends in the same department which is Mathematics department about how to learn quadrilaterals easily. By doing this task, the students can apply what they have learned inside the class outside the class.

F. Let's Make Reflections

This part aims to provide self-assessment and peer assessment for the students so that they are able to measure their ability after learning the unit.

G. Summary

This part is intended to provide the students, the summary of language functions and grammar that they have learned in the unit.

H. Vocabulary List

The vocabulary list aims to give the students review of vocabulary that they have met in the unit. The vocabulary list covers the English words, parts of speech, pronunciation transcription, and Indonesian equivalent.

The Description of Unit 3

UNIT 3

Title: What I'd Like to Present to You Today is Linear Algebra.

This unit encourages the students to study the useful expressions for doing presentation, making generalizations and gerunds. The topic of this unit is algebra.

A. Let's Get Started

As an introduction part, it contains two tasks which serve as prompter to introduce the topic and language functions that are going to learn.

Task 1 Instruction:

Study the following picture and answer the questions.

Description:

This task is designed to introduce language functions that are going to learn in the unit. The task contains a picture to illustrate the activity

	that they will have in the unit. Balloons containing some expressions
	used in presentation are used to introduce the language functions.
	Five comprehension questions are provided to dig up the students'
	knowledge about the language functions that are going to learn
Task 2	Instruction:
Task 2	
	Algebra is a very broad part of mathematics. Write sub-topics of
	algebra that you have learned or you are going to learn in the
	available boxes.
	Description:
	This task is designed to prompt and brainstorm the students'
	knowledge about the topic that is going to discuss in the unit.
	The students are asked to complete five boxes with sub-topics of
	algebra. A picture is provided in order to give overview of the topic.
B Lets'	Take Action
	contains a number of tasks in which the tasks are provided in order to
	he learning objectives.
Task 3	Instruction:
T don't	Below are some nouns that you are going to find in Task 4. Complete
	the table and then try to pronounce the English Words. Do it in pairs
	and ask your partner to check your pronunciation.
	Description:
	This task is designed to scaffold the students for the listening task in
	the next task and to develop students' pronunciation. The students are
	asked to complete the table by referring to the provided words and
	practice to pronounce the English words in the table.
Task 4	Instruction:
	Listen to the monologue of a student doing presentation and answer
	the following questions. And share your answer with your friends.
	Description:
	This task is designed to give listening practice. In this task the
	students are introduced with useful expression for presentation and
	part of presentation by using algebra as the topic. There are eight
	comprehension questions which aim to check the students'
	understanding about the content of the conversations.
Task 5	Instruction:
	Study the following explanation with your partner.
	Description:
	This task aims to provide explanation about part of presentations and
	the expressions used in each of the parts.
Task 6	Instruction:
	Below is presentation script about sub-topic of algebra with some
	blank spaces. Complete the blanks with the expressions in Task 4,
	then act out the script. Ask your partner to check your pronunciation
	and gestures.

Description: This is guided speaking task. This task aims to provide speaking activity for the students and to check students' understanding about the explanation that has been given in the previous task. In this task, the students are asked to apply the expressions that they have learned in the previous task in a presentation. Task 7 Instruction: Study the following sentences and the underlined words. Answer the questions based on the sentences in the box with your partner. Description: This task is to introduce gerund to the students. The students are provided with three sentences containing gerund in which the gerunds are underlined. Five comprehension questions are provided to check the students' knowledge about gerund. Task 8 Instruction: Study the following explanation with your partner. Description: This task is intended to provide explanation about gerunds. The explanation covers the definition of gerund, the form of gerund, the position of gerund and the examples of gerunds in sentences based on their positions. Task 9 Instruction: Identify the mistakes on the second speaker's lines and correct the words by changing them into gerund and then identify the positions of them based on what you have learned about gerund in the previous task. After that, practice the conversation with your partner. Description: This task is designed to check students' understanding after they are given explanation about gerund. The students are provided with some very short conversations and they are asked to identify the mistakes in the second speaker by changing the mistakes (words) into gerund. Then the students are asked to do the conversations with their partners. Task 10 Instruction: Study the following statements and answer the questions. You are allowed to have discussions with your friends in answering the questions. Description: This task is to introduce expressions of making generalization to the students. The students are provided with two statements containing expressions of making generalization in which the expressions are underlined. Five comprehension questions are provided to check the students' knowledge about the expressions of making generalization. Task 11 Instruction: Study the following explanation with your partner.

Description:

This task aims to provide explanation about part of making generalizations. The students are asked to study the explanation of expressions of making generalization with their partners. The explanation covers expressions of making generalization, the usage and level of formality of the expressions. The students are also given explanation of how to make valid generalizations.

Task 12 Instruction:

Study the following situations. Make a generalization for each situation orally using the expressions that you have learned in the previous task and ask your partner to check whether your generalizations are valid or not. Situation A has been done for you.

Description:

This is guided speaking task. This task aims to check students' understanding about the explanation that has been given in the previous task. In this task, the students are asked to create a generalization orally based on the situations in the boxes.

Task 13 | Instruction:

Below is the material for presentation. Make a group of three and each of members should do presentation with the material and using the appropriate expressions that you have learned in the previous tasks. Apply gerund and generalization in your presentation and give your friends feedback for her/his presentation. If necessary, you can add some information related to the material.

Description:

This task is semi-guided speaking task. It serves as speaking task in which provide speaking activity for students to apply what they have learned in the previous tasks. The students are provided with materials for doing presentation.

C. Let's Do More

This part consists of one task to apply what the students have learned in the previous tasks.

Task 14 Instruction:

Choose one of the topics below and present it in front of the class. Use the expressions that you have learned in the previous tasks and apply gerund and generalization in the presentation. You may use power point to help you presenting the topic. The duration of your presentation cannot be no longer that 10 minutes.

Description:

This task is designed to provide speaking activity for the students. In this task, the students are given less scaffolding. They have to do presentation using one of the provided topics. The students are required to apply the expressions that they have learned in the unit.

D. Let's Do Evaluation

The evaluation task is intended to evaluate the students about what they have learned in the unit.

Task 15 | I

Instruction:

Work in group of four and do the following activity.

Description:

This task is designed to evaluate the students about what they have learned in the unit. The students are asked to do the task in group based on the requirement written in the table.

E. Homework

Homework task is real-world task in which the students have to apply what they have learned in the classroom outside the classroom

Task 16

Instruction:

Do a survey to friends who do not join the English speaking club to find out how they do their presentations and ask them whether they use the expressions as you have learned in this unit or not and then report the results of the survey in the class.

Description:

This task is designed to provide real-world task for the students. They are asked to survey five friends who do not join the speaking club and ask them whether they do their presentation using the expressions that the students in the speaking club or not. The result of the interview should be reported in the class.

F. Let's Make Reflections

This part aims to provide self-assessment and peer-assessment for the students so that they are able to measure their ability after learning the unit.

G. Summary

This part is intended to provide the students, the summary of language functions and grammar that they have learned in the unit.

H. Vocabulary List

The vocabulary list aims to give the students review of vocabulary that they have met in the unit. The vocabulary list covers the English words, parts of speech, pronunciation transcription, and Indonesian equivalent.

LEMBAR EVALUASI MATERI PEMBELAJARAN BAHASA INGGRIS (EXPERT JUDGEMENT)

UNIT 1

(IN MY OPINION, INTEGER IS AN INTERESTING TOPIC)

Sehubungan dengan dilaksanakannya penelitian untuk pengembangan materi belajar Bahasa Inggris untuk kegiatan English Speaking Club untuk mahasiswa Program Studi International Pendidikan Matematika, saya mengharapkan kesediaan Bapak/Ibu untuk meluangkan waktu mengisi kuesioner ini.

Kuesioner ini bertujuan untuk mengevaluasi materi belajar Bahasa Inggris yang saya kembangkan untuk kegiatan English Speaking Club untuk mahasiswa Program Studi International Pendidikan Matematika semester IV dalam konteks akademik.

A.	Identitas	Resp	onden

Nama	:
Jenis Kelamin	: L / P (lingkari yang sesuai)
Pekerjaan	:
Pendidikan	:

B. Petunjuk Pengisian

Isilah lembar evaluasi ini dengan memberi tanda centang ($\sqrt{}$) pada kolom **SS** (Sangat Setuju), **S** (Setuju), TS (Tidak Setuju), atau STS (Sangat Tidak Setuju) pada masing-masing pernyataan sesuai dengan pendapat Bapak/ Ibu.

Peneliti,

Mahasiswa Jurusan Pendidikan

Bahasa Inggris UNY

Titi Nawangsari

NIM. 09202241053

1. Kelayakan Isi

No	Pernyataan	SS	S	TS	STS
		4	3	2	1
1	Materi yang dikembangkan sesuai dengan				
	kebutuhan Bahasa Inggris mahasiswa				
	Pendididikan Matematika Program International				
	semester IV.				
2	Materi yang dikembangkan sesuai dengan				
	konteks akademik mahasiswa Pendididikan				
	Matematika Program International semester IV.				
3	Materi yang dikembangkan berisi teks yang				
	sesuai dengan kebutuhan mahasiswa Pendididikan				
	Matematika Program International semester IV				
4	Materi yang dikembangkan berisi ekpresi				
	(language function) yang sesuai dengan				
	kebutuhan akademik mahasiswa Pendididikan				
	Matematika Program International semester IV.				
5	Input (dialog atau monolog) pada materi yang				
	dikembangkan sesuai dengan topik yang dibahas.				
6	Gambar pada materi yang dikembangkan sesuai				
	dengan topik dibahas.				
7	Tabel pada materi yang dikembangkan sesuai				
	dengan topik yang dibahas.				
8	Materi yang dikembangkan mendorong				
	mahasiswa untuk dapat melakukan komunikasi				
	interpersonal dan transaksional.				
9	Materi yang dikembangkan mendorong siswa				
	untuk dapat memahami struktur makna dan fitur				
	linguistik pada teks yang dibahas.				
10	Materi yang dikembangkan mengarahkan				
	mahasiswa untuk dapat berkomunikasi dengan				
	kualitas bahasa yang akurat dan berterima sesuai				
	dengan konteks komunikatif yang berlangsung.				
<u> </u>		<u> </u>		İ	ı

11	Materi yang dikembangkan memotivasi						
	mahasiswa untuk mengembangkan kecakapan						
	hidup secara personal, sosial dan akademik.						
Saran c	Saran dan tanggapan untuk perbaikan:						
					• • • • • • •		
		• • • • • • •					

2. Kelayakan Bahasa

Pernyataan	SS	S	TS	STS
	4	3	2	1
Bahasa yang digunakan sesuai dengan tingkat				
kemampuan berbahasa Inggris mahasiswa				
Pendididikan Matematika Program International				
semester IV				
Perintah (instruksi) dan penjelasan dalam materi				
yang dikembangkan dapat dimengerti oleh				
mahasiswa Pendididikan Matematika Program				
International semester IV.				
Bahasa yang digunakan sesuai dengan aturan				
grammatikal dalam Bahasa Inggris.				
Ejaan (spelling) yang digunakan sesuai dengan				
kaidah Bahasa Inggris yang benar.				
Pemilihan kosakata pada materi sesuai dengan				
kaidah dalam Bahasa Inggris.				
Pesan atau informasi yang disajikan mencerminkan				
keruntutan makna dalam satu bagian (kalimat atau				
paragraf).				
Pesan atau informasi yang disajikan mencerminkan				
keruntutan makna antar bagian (kalimat atau				
paragraph).				
	Bahasa yang digunakan sesuai dengan tingkat kemampuan berbahasa Inggris mahasiswa Pendididikan Matematika Program International semester IV Perintah (instruksi) dan penjelasan dalam materi yang dikembangkan dapat dimengerti oleh mahasiswa Pendididikan Matematika Program International semester IV. Bahasa yang digunakan sesuai dengan aturan grammatikal dalam Bahasa Inggris. Ejaan (spelling) yang digunakan sesuai dengan kaidah Bahasa Inggris yang benar. Pemilihan kosakata pada materi sesuai dengan kaidah dalam Bahasa Inggris. Pesan atau informasi yang disajikan mencerminkan keruntutan makna dalam satu bagian (kalimat atau paragraf). Pesan atau informasi yang disajikan mencerminkan keruntutan makna antar bagian (kalimat atau	Bahasa yang digunakan sesuai dengan tingkat kemampuan berbahasa Inggris mahasiswa Pendididikan Matematika Program International semester IV Perintah (instruksi) dan penjelasan dalam materi yang dikembangkan dapat dimengerti oleh mahasiswa Pendididikan Matematika Program International semester IV. Bahasa yang digunakan sesuai dengan aturan grammatikal dalam Bahasa Inggris. Ejaan (spelling) yang digunakan sesuai dengan kaidah Bahasa Inggris yang benar. Pemilihan kosakata pada materi sesuai dengan kaidah dalam Bahasa Inggris. Pesan atau informasi yang disajikan mencerminkan keruntutan makna dalam satu bagian (kalimat atau paragraf). Pesan atau informasi yang disajikan mencerminkan keruntutan makna antar bagian (kalimat atau	Bahasa yang digunakan sesuai dengan tingkat kemampuan berbahasa Inggris mahasiswa Pendididikan Matematika Program International semester IV Perintah (instruksi) dan penjelasan dalam materi yang dikembangkan dapat dimengerti oleh mahasiswa Pendididikan Matematika Program International semester IV. Bahasa yang digunakan sesuai dengan aturan grammatikal dalam Bahasa Inggris. Ejaan (spelling) yang digunakan sesuai dengan kaidah Bahasa Inggris yang benar. Pemilihan kosakata pada materi sesuai dengan kaidah dalam Bahasa Inggris. Pesan atau informasi yang disajikan mencerminkan keruntutan makna dalam satu bagian (kalimat atau paragraf). Pesan atau informasi yang disajikan mencerminkan keruntutan makna antar bagian (kalimat atau	Bahasa yang digunakan sesuai dengan tingkat kemampuan berbahasa Inggris mahasiswa Pendididikan Matematika Program International semester IV Perintah (instruksi) dan penjelasan dalam materi yang dikembangkan dapat dimengerti oleh mahasiswa Pendididikan Matematika Program International semester IV. Bahasa yang digunakan sesuai dengan aturan grammatikal dalam Bahasa Inggris. Ejaan (spelling) yang digunakan sesuai dengan kaidah Bahasa Inggris yang benar. Pemilihan kosakata pada materi sesuai dengan kaidah dalam Bahasa Inggris. Pesan atau informasi yang disajikan mencerminkan keruntutan makna dalam satu bagian (kalimat atau paragraf). Pesan atau informasi yang disajikan mencerminkan keruntutan makna antar bagian (kalimat atau

Saran dan tanggapan	untuk perbaikan:		

.....

3. Kelayakan Penyajian

No	Pernyataan	SS	S	TS	STS
19	Aktivitas (task) diurutkan dari yang paling mudah				
	ke aktivitas (task) yang paling sulit.				
20	Jumlah aktivitas (task) seimbang atau hampir sama				
	pada setiap unitnya.				
21	Aktvitas (task) terpusat pada siswa.				
22	Aktivitas (task) yang diberikan mendorong siswa				
	untuk berpartisipasi aktif dalam kelas.				
23	Aktivitas (task) yang diberikan mendorong siswa				
	untuk melakukan komunikasi lisan secara efektif.				
24	Aktivitas (task) yang diberikan membantu				
	memunculkan kreativitas mahasiswa dalam proses				
	belajar.				
25	Aktivitas (task) yang diberikan mendorong				
	mahasiswa untuk bertanggung jawab atas proses				
	belajarnya sendiri.				
26	Aktivitas (task) yang diberikan mendorong				
	mahasiswa untuk mengenali keberhasilan dan				
	kekurangan siswa dalam kegitan belajar dan				
	berkomunikasi.				
27	Penyajian aktivitas (task) mencakup evaluasi				
	untuk mengukur tingkat pemahaman mahasiswa				
	terhadap materi yang sudah dipelajari.				
28	Aktivitas (task) yang diberikan memuat kosakata				
	yang berhubungan dengan topik pada unit.				
29	Aktivitas (task) yang diberikan terdiri dari				
	aktivitas terdampingi (guided activities) dan				
	aktivitas tidak terdampingi (free guided activities).				
30	Setiap unit terdiri dari aktivitas pembuka (opening				

			1	1 —	
	activities).				
31	Setiap unit terdiri dari aktivitas utama (main				
	activities).				
32	Setiap unit terdiri dari aktivitas penutup (closing				
	activity).				
Saran (dan tanggapan untuk perbaikan:	l	l		I
l. K	elayakan Kegrafikan				
No	Pernyataan	SS	S	TS	STS
33	Desain buku ini menggunakan unsur tata letak				
	(judul bab, sub judul, angka halaman, ilustrasi,				
	keterangan gambar dll) yang baik.				
34	keterangan gambar dll) yang baik. Huruf yang digunakan tidak terlalu beragam.				
35	Huruf yang digunakan tidak terlalu beragam.				
35	Huruf yang digunakan tidak terlalu beragam. Ukuran huruf dapat terbaca dengan mudah.				
35	Huruf yang digunakan tidak terlalu beragam. Ukuran huruf dapat terbaca dengan mudah. Warna yang digunakan pada materi yang				
35 36	Huruf yang digunakan tidak terlalu beragam. Ukuran huruf dapat terbaca dengan mudah. Warna yang digunakan pada materi yang dikembangkan tidak menganggu penyampaian				
35 36	Huruf yang digunakan tidak terlalu beragam. Ukuran huruf dapat terbaca dengan mudah. Warna yang digunakan pada materi yang dikembangkan tidak menganggu penyampaian informasi.				
35 36 37	Huruf yang digunakan tidak terlalu beragam. Ukuran huruf dapat terbaca dengan mudah. Warna yang digunakan pada materi yang dikembangkan tidak menganggu penyampaian informasi. Gambar yang disediakan memenuhi tujuan estetik.				

ecara keseluruhan, bagaimana pendapat Bapak/Ibu mengenai materi ini?	

REKOMENDASI

Mengacu pada hasil penilaian diatas, maka	dengan ini unit 1 dinyatakan:
☐ Layak tanpa revisi	
□ Tidak layak	
 Layak dengan revisi sebagai berikut 	:
	Yogyakarta,2014
	Evaluator,
	NIP.

LEMBAR EVALUASI MATERI PEMBELAJARAN BAHASA INGGRIS (EXPERT JUDGEMENT)

UNIT 2

(WE COULD FIND ARTICLES OF QUADRILATERALS IN THE LIBRARY)

Sehubungan dengan dilaksanakannya penelitian untuk pengembangan materi belajar Bahasa Inggris untuk kegiatan English Speaking Club untuk mahasiswa Program Studi International Pendidikan Matematika, saya mengharapkan kesediaan Bapak/Ibu untuk meluangkan waktu mengisi kuesioner ini.

Kuesioner ini bertujuan untuk mengevaluasi materi belajar Bahasa Inggris yang saya kembangkan untuk kegiatan English Speaking Club untuk mahasiswa Program Studi International Pendidikan Matematika semester IV dalam konteks akademik.

A.	Identitas	Responden

Nama	· · · · · · · · · · · · · · · · · · ·
Jenis Kelamin	: L / P (lingkari yang sesuai)
Pekerjaan	:
Pendidikan	·

B. Petunjuk Pengisian

Isilah lembar evaluasi ini dengan memberi tanda centang ($\sqrt{}$) pada kolom **SS** (Sangat Setuju), **S** (Setuju), TS (Tidak Setuju), atau STS (Sangat Tidak Setuju) pada masing-masing pernyataan sesuai dengan pendapat Bapak/ Ibu.

.

Peneliti,

Mahasiswa Jurusan Pendidikan

Bahasa Inggris UNY

Titi Nawangsari NIM. 09202241053

1. Kelayakan Isi

No	Pernyataan	SS	S	TS	STS
		4	3	2	1
1	Materi yang dikembangkan sesuai dengan				
	kebutuhan Bahasa Inggris mahasiswa				
	Pendididikan Matematika Program International				
	semester IV.				
2	Materi yang dikembangkan sesuai dengan				
	konteks akademik mahasiswa Pendididikan				
	Matematika Program International semester IV.				
3	Materi yang dikembangkan berisi teks yang				
	sesuai dengan kebutuhan mahasiswa Pendididikan				
	Matematika Program International semester IV				
4	Materi yang dikembangkan berisi ekpresi				
	(language function) yang sesuai dengan				
	kebutuhan akademik mahasiswa Pendididikan				
	Matematika Program International semester IV.				
5	Input (dialog atau monolog) pada materi yang				
	dikembangkan sesuai dengan topik yang dibahas.				
6	Gambar pada materi yang dikembangkan sesuai				
	dengan topik dibahas.				
7	Tabel pada materi yang dikembangkan sesuai				
	dengan topik yang dibahas.				
8	Materi yang dikembangkan mendorong				
	mahasiswa untuk dapat melakukan komunikasi				
	interpersonal dan transaksional.				
9	Materi yang dikembangkan mendorong siswa				
	untuk dapat memahami struktur makna dan fitur				
	linguistik pada teks yang dibahas.				
10	Materi yang dikembangkan mengarahkan				
	mahasiswa untuk dapat berkomunikasi dengan				
	kualitas bahasa yang akurat dan berterima sesuai				
	dengan konteks komunikatif yang berlangsung.				

11	Materi yang dikembangkan memotivasi		
	mahasiswa untuk mengembangkan kecakapan		
	hidup secara personal, sosial dan akademik.		
Saran c	lan tanggapan untuk perbaikan:		
		 	 · · · · · · · · ·

2. Kelayakan Bahasa

Pernyataan	SS	S	TS	STS
	4	3	2	1
Bahasa yang digunakan sesuai dengan tingkat				
kemampuan berbahasa Inggris mahasiswa				
Pendididikan Matematika Program International				
semester IV				
Perintah (instruksi) dan penjelasan dalam materi				
yang dikembangkan dapat dimengerti oleh				
mahasiswa Pendididikan Matematika Program				
International semester IV.				
Bahasa yang digunakan sesuai dengan aturan				
grammatikal dalam Bahasa Inggris.				
Ejaan (spelling) yang digunakan sesuai dengan				
kaidah Bahasa Inggris yang benar.				
Pemilihan kosakata pada materi sesuai dengan				
kaidah dalam Bahasa Inggris.				
Pesan atau informasi yang disajikan mencerminkan				
keruntutan makna dalam satu bagian (kalimat atau				
paragraf).				
Pesan atau informasi yang disajikan mencerminkan				
keruntutan makna antar bagian (kalimat atau				
paragraph).				
	Bahasa yang digunakan sesuai dengan tingkat kemampuan berbahasa Inggris mahasiswa Pendididikan Matematika Program International semester IV Perintah (instruksi) dan penjelasan dalam materi yang dikembangkan dapat dimengerti oleh mahasiswa Pendididikan Matematika Program International semester IV. Bahasa yang digunakan sesuai dengan aturan grammatikal dalam Bahasa Inggris. Ejaan (spelling) yang digunakan sesuai dengan kaidah Bahasa Inggris yang benar. Pemilihan kosakata pada materi sesuai dengan kaidah dalam Bahasa Inggris. Pesan atau informasi yang disajikan mencerminkan keruntutan makna dalam satu bagian (kalimat atau paragraf). Pesan atau informasi yang disajikan mencerminkan keruntutan makna antar bagian (kalimat atau	Bahasa yang digunakan sesuai dengan tingkat kemampuan berbahasa Inggris mahasiswa Pendididikan Matematika Program International semester IV Perintah (instruksi) dan penjelasan dalam materi yang dikembangkan dapat dimengerti oleh mahasiswa Pendididikan Matematika Program International semester IV. Bahasa yang digunakan sesuai dengan aturan grammatikal dalam Bahasa Inggris. Ejaan (spelling) yang digunakan sesuai dengan kaidah Bahasa Inggris yang benar. Pemilihan kosakata pada materi sesuai dengan kaidah dalam Bahasa Inggris. Pesan atau informasi yang disajikan mencerminkan keruntutan makna dalam satu bagian (kalimat atau paragraf). Pesan atau informasi yang disajikan mencerminkan keruntutan makna antar bagian (kalimat atau	Bahasa yang digunakan sesuai dengan tingkat kemampuan berbahasa Inggris mahasiswa Pendididikan Matematika Program International semester IV Perintah (instruksi) dan penjelasan dalam materi yang dikembangkan dapat dimengerti oleh mahasiswa Pendididikan Matematika Program International semester IV. Bahasa yang digunakan sesuai dengan aturan grammatikal dalam Bahasa Inggris. Ejaan (spelling) yang digunakan sesuai dengan kaidah Bahasa Inggris yang benar. Pemilihan kosakata pada materi sesuai dengan kaidah dalam Bahasa Inggris. Pesan atau informasi yang disajikan mencerminkan keruntutan makna dalam satu bagian (kalimat atau paragraf). Pesan atau informasi yang disajikan mencerminkan keruntutan makna antar bagian (kalimat atau	Bahasa yang digunakan sesuai dengan tingkat kemampuan berbahasa Inggris mahasiswa Pendididikan Matematika Program International semester IV Perintah (instruksi) dan penjelasan dalam materi yang dikembangkan dapat dimengerti oleh mahasiswa Pendididikan Matematika Program International semester IV. Bahasa yang digunakan sesuai dengan aturan grammatikal dalam Bahasa Inggris. Ejaan (spelling) yang digunakan sesuai dengan kaidah Bahasa Inggris yang benar. Pemilihan kosakata pada materi sesuai dengan kaidah dalam Bahasa Inggris. Pesan atau informasi yang disajikan mencerminkan keruntutan makna dalam satu bagian (kalimat atau paragraf). Pesan atau informasi yang disajikan mencerminkan keruntutan makna antar bagian (kalimat atau

Saran dan tanggapan	untuk perbaikan:		

.....

3. Kelayakan Penyajian

No	Pernyataan	SS	S	TS	STS
19	Aktivitas (task) diurutkan dari yang paling mudah				
	ke aktivitas (task) yang paling sulit.				
20	Jumlah aktivitas (task) seimbang atau hampir sama				
	pada setiap unitnya.				
21	Aktvitas (task) terpusat pada siswa.				
22	Aktivitas (task) yang diberikan mendorong siswa				
	untuk berpartisipasi aktif dalam kelas.				
23	Aktivitas (task) yang diberikan mendorong siswa				
	untuk melakukan komunikasi lisan secara efektif.				
24	Aktivitas (task) yang diberikan membantu				
	memunculkan kreativitas mahasiswa dalam proses				
	belajar.				
25	Aktivitas (task) yang diberikan mendorong				
	mahasiswa untuk bertanggung jawab atas proses				
	belajarnya sendiri.				
26	Aktivitas (task) yang diberikan mendorong				
	mahasiswa untuk mengenali keberhasilan dan				
	kekurangan siswa dalam kegitan belajar dan				
	berkomunikasi.				
27	Penyajian aktivitas (task) mencakup evaluasi				
	untuk mengukur tingkat pemahaman mahasiswa				
	terhadap materi yang sudah dipelajari.				
28	Aktivitas (task) yang diberikan memuat kosakata				
	yang berhubungan dengan topik pada unit.				
29	Aktivitas (task) yang diberikan terdiri dari				
	aktivitas terdampingi (guided activities) dan				
	aktivitas tidak terdampingi (free guided activities).				
30	Setiap unit terdiri dari aktivitas pembuka (opening				
	activities).				
L	I .			L	

31	Setiap unit terdiri dari aktivitas utama (main				
	activities).				
32	Setiap unit terdiri dari aktivitas penutup (closing				
	activity).				
Saran	dan tanggapan untuk perbaikan:		1	1	1
4. K	elayakan Kegrafikan				
No	Pernyataan	SS	S	TS	STS
33	Desain buku ini menggunakan unsur tata letak				
	(judul bab, sub judul, angka halaman, ilustrasi,				
	keterangan gambar dll) yang baik.				
34	Huruf yang digunakan tidak terlalu beragam.				
35	Ukuran huruf dapat terbaca dengan mudah.				
36	Warna yang digunakan pada materi yang				
	dikembangkan tidak menganggu penyampaian				
	informasi.				
37	Gambar yang disediakan memenuhi tujuan estetik.				
38	Gambar yang disediakan memenuhi tujuan				
	fungsional.				
Saran	dan tanggapan untuk perbaikan:		1	1	1

						• • • • • • • • • • • • • • • • • • • •
_		k/Ibu, hal a	apakah yan	g perlu dit	ambahkan	atau dikura
Menurut per		k/Ibu, hal a				
_		k/Ibu, hal a				atau dikura
pada materi						
pada materi	ini?					
pada materi	ini?					
pada materi	ini?					
pada materi	ini?					
pada materi	ini?					
pada materi	ini?					
pada materi	ini?					
pada materi	ini?					
pada materi	ini?					
pada materi	ini?					

REKOMENDASI

Mengacu pada nasii penilaian diatas, maka	dengan ini unit 2 dinyatakan:
☐ Layak tanpa revisi	
□ Tidak layak	
☐ Layak dengan revisi sebagai beriku	::
	V 1 4 2014
	Yogyakarta,2014
	Evaluator,
	NID
	NIP.

LEMBAR EVALUASI MATERI PEMBELAJARAN BAHASA INGGRIS (EXPERT JUDGEMENT)

UNIT 3

(WHAT I'D LIKE TO PRESENT TO YOU TODAY IS LINEAR ALGEBRA)

Sehubungan dengan dilaksanakannya penelitian untuk pengembangan materi belajar Bahasa Inggris untuk kegiatan English Speaking Club untuk mahasiswa Program Studi International Pendidikan Matematika, saya mengharapkan kesediaan Bapak/Ibu untuk meluangkan waktu mengisi kuesioner ini.

Kuesioner ini bertujuan untuk mengevaluasi materi belajar Bahasa Inggris yang saya kembangkan untuk kegiatan English Speaking Club untuk mahasiswa Program Studi International Pendidikan Matematika semester IV dalam konteks akademik.

A.	Identitas	Responden

Nama	:
Jenis Kelamin	: L / P (lingkari yang sesuai)
Pekerjaan	:
Pendidikan	:

B. Petunjuk Pengisian

Isilah lembar evaluasi ini dengan memberi tanda centang ($\sqrt{}$) pada kolom **SS** (Sangat Setuju), **S** (Setuju), TS (Tidak Setuju), atau STS (Sangat Tidak Setuju) pada masing-masing pernyataan sesuai dengan pendapat Bapak/ Ibu.

.

Peneliti,

Mahasiswa Jurusan Pendidikan

Bahasa Inggris UNY

Titi Nawangsari

NIM. 09202241053

1. Kelayakan Isi

No	Pernyataan	SS	S	TS	STS
		4	3	2	1
1	Materi yang dikembangkan sesuai dengan				
	kebutuhan Bahasa Inggris mahasiswa				
	Pendididikan Matematika Program International				
	semester IV.				
2	Materi yang dikembangkan sesuai dengan				
	konteks akademik mahasiswa Pendididikan				
	Matematika Program International semester IV.				
3	Materi yang dikembangkan berisi teks yang				
	sesuai dengan kebutuhan mahasiswa Pendididikan				
	Matematika Program International semester IV				
4	Materi yang dikembangkan berisi ekpresi				
	(language function) yang sesuai dengan				
	kebutuhan akademik mahasiswa Pendididikan				
	Matematika Program International semester IV.				
5	Input (dialog atau monolog) pada materi yang				
	dikembangkan sesuai dengan topik yang dibahas.				
6	Gambar pada materi yang dikembangkan sesuai				
	dengan topik dibahas.				
7	Tabel pada materi yang dikembangkan sesuai				
	dengan topik yang dibahas.				
8	Materi yang dikembangkan mendorong				
	mahasiswa untuk dapat melakukan komunikasi				
	interpersonal dan transaksional.				
9	Materi yang dikembangkan mendorong siswa				
	untuk dapat memahami struktur makna dan fitur				
	linguistik pada teks yang dibahas.				
10	Materi yang dikembangkan mengarahkan				
	mahasiswa untuk dapat berkomunikasi dengan				
	kualitas bahasa yang akurat dan berterima sesuai				
	dengan konteks komunikatif yang berlangsung.				
<u> </u>			<u> </u>	İ	ı

11	Materi yang dikembangkan memotivasi		
	mahasiswa untuk mengembangkan kecakapan		
	hidup secara personal, sosial dan akademik.		
Saran c	lan tanggapan untuk perbaikan:		

2. Kelayakan Bahasa

No	Pernyataan	SS	S	TS	STS
		4	3	2	1
12	Bahasa yang digunakan sesuai dengan tingkat				
	kemampuan berbahasa Inggris mahasiswa				
	Pendididikan Matematika Program International				
	semester IV				
13	Perintah (instruksi) dan penjelasan dalam materi				
	yang dikembangkan dapat dimengerti oleh				
	mahasiswa Pendididikan Matematika Program				
	International semester IV.				
14	Bahasa yang digunakan sesuai dengan aturan				
	grammatikal dalam Bahasa Inggris.				
15	Ejaan (spelling) yang digunakan sesuai dengan				
	kaidah Bahasa Inggris yang benar.				
16	Pemilihan kosakata pada materi sesuai dengan				
	kaidah dalam Bahasa Inggris.				
17	Pesan atau informasi yang disajikan mencerminkan				
	keruntutan makna dalam satu bagian (kalimat atau				
	paragraf).				
18	Pesan atau informasi yang disajikan mencerminkan				
	keruntutan makna antar bagian (kalimat atau				
	paragraph).				
				•	

Saran dan tanggapan	untuk perbaikan:		

.....

3. Kelayakan Penyajian

No	Pernyataan	SS	S	TS	STS
19	Aktivitas (task) diurutkan dari yang paling mudah				
	ke aktivitas (task) yang paling sulit.				
20	Jumlah aktivitas (task) seimbang atau hampir sama				
	pada setiap unitnya.				
21	Aktvitas (task) terpusat pada siswa.				
22	Aktivitas (task) yang diberikan mendorong siswa				
	untuk berpartisipasi aktif dalam kelas.				
23	Aktivitas (task) yang diberikan mendorong siswa				
	untuk melakukan komunikasi lisan secara efektif.				
24	Aktivitas (task) yang diberikan membantu				
	memunculkan kreativitas mahasiswa dalam proses				
	belajar.				
25	Aktivitas (task) yang diberikan mendorong				
	mahasiswa untuk bertanggung jawab atas proses				
	belajarnya sendiri.				
26	Aktivitas (task) yang diberikan mendorong				
	mahasiswa untuk mengenali keberhasilan dan				
	kekurangan siswa dalam kegitan belajar dan				
	berkomunikasi.				
27	Penyajian aktivitas (task) mencakup evaluasi				
	untuk mengukur tingkat pemahaman mahasiswa				
	terhadap materi yang sudah dipelajari.				
28	Aktivitas (task) yang diberikan memuat kosakata				
	yang berhubungan dengan topik pada unit.				
29	Aktivitas (task) yang diberikan terdiri dari				
	aktivitas terdampingi (guided activities) dan				
	aktivitas tidak terdampingi (free guided activities).				
30	Setiap unit terdiri dari aktivitas pembuka (opening				

	activities).				
31	Setiap unit terdiri dari aktivitas utama (main				
	activities).				
32	Setiap unit terdiri dari aktivitas penutup (closing				
	activity).				
Saran	dan tanggapan untuk perbaikan:	•	•	1	
4. K	elayakan Kegrafikan				
No	Pernyataan	SS	S	TS	STS
33	Desain buku ini menggunakan unsur tata letak				
	(judul bab, sub judul, angka halaman, ilustrasi,				
	keterangan gambar dll) yang baik.				
34	Huruf yang digunakan tidak terlalu beragam.				
35	Ukuran huruf dapat terbaca dengan mudah.				
36	Warna yang digunakan pada materi yang				
	dikembangkan tidak menganggu penyampaian				
	informasi.				
37	Gambar yang disediakan memenuhi tujuan estetik.				
38	Gambar yang disediakan memenuhi tujuan				
	fungsional.				
Saran	dan tanggapan untuk perbaikan:				1
					

ecara keseluruhan, bagaimana pendapat Bapak/Ibu mengenai materi ini?	

REKOMENDASI

Mengacu pada hasil penilaian diatas, maka	dengan ini unit 3 dinyatakan:
☐ Layak tanpa revisi	
□ Tidak layak	
 Layak dengan revisi sebagai berikut 	:
	Yogyakarta,2014
	Evaluator,
	NIP.

1

In My Opinion, Integer Is an Interesting Topic.



Picture 1.1

As students of Mathematics Education study program, you must have been familiar with integers. When you hear the word "integer", what comes to your mind? What do you think about integer?

In this unit, you will learn some expressions used to ask and give opinions about integers. You will also use the expressions in the communication activities.



Let's Get Started



Task 1
Study the following picture and answer the questions.



Picture 1.2

In an activity discussing integer, you find it difficult to solve some problems of integer. You want to ask your friend's opinions of how to solve the problems.

What will you say to her/him?

Can you say it using the expressions of asking for opinions?

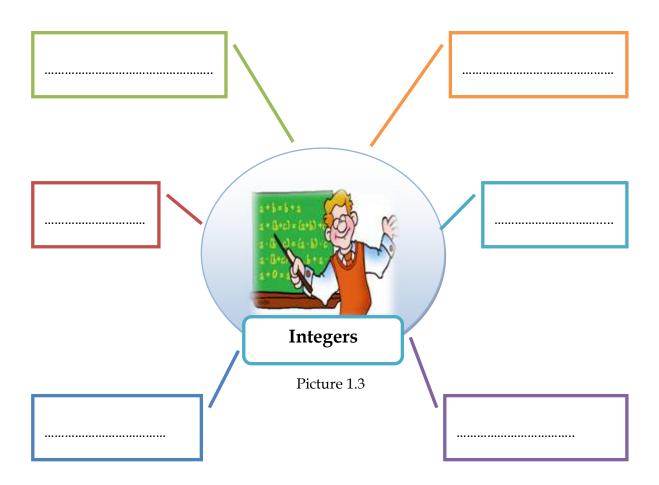
Can your friend answer your questions using expressions of giving opinions?

If you are able to ask your friend using such expressions, which expression do you think is the most appropriate to be used?



Task 2

Below is a mind map of integers. Think about integers and write the things that you usually learn in integers on the chart.



Do you know?

Some historians believe that the first evidence of the use of negative numbers was around 300 B.C. in Western China .



B Let's Take Action



Task 3

Below are some adjectives and adverbs that you are going to find in Task 4. Complete the table below and then pronounce the English words. Do it in pairs and ask your partner to check your pronunciation.

No	English	Parts of Speech	Indonesian	Pronunciation
1	abundant	adjective	berlebih	/əˈbʌn.d ə nt/
2	afraid			
3	abundant			
4	below			
5	clear			
6	complicated			
7	exaggerate			
8	physical			
9	quite			
10	simpler	•••••		•••••



Task 4

You will listen to a conversation containing some expressions of asking and giving opinions about something. Listen carefully and take notes for important information, then answer the following questions according to the conversation.

- 1. What is being discussed by the speakers?
- 2. What are their opinions about the topic?
- 3. Where did Colby take the materials from?
- 4. What do they think about the professor?
- 5. What is the definition of the topic given by the speaker? Use your own words.
- 6. In what kind of other fields, can the topic be applied to?
- 7. What are subtopics that they are going to learn related to the topic?
- 8. When will they learn the topic in the class?
- 9. Is there any expression of asking opinions in the conversation? (If any, mention it/them).
- 10. Is there any expression of giving opinions in the conversation? (If any, mention it/them)



Task 5
Study the following explanation with your partner.



Language Functions: Asking and Giving Opinions

There are some expressions that can be used in asking and giving opinions. You may need different expressions for different situations. Furthermore, you need to consider the level of formality of the expressions that you are going to use.

Below are explanations of the expressions that you need to ask and give opinions and in what situation you can use the expressions.

Situations	Expre	Level of	
	Asking for Opinions	Giving Opinions	formality
You are having a chat in a canteen with your friends about today's math lecture.	What about?How do you see?What do you reckon	I thinkI'd sayWell, to my mind,I reckon	Less formal
You are at the theatre and you are having conversations with someone who happens to be sitting next to you.	What do you feel about?What do you think of/about?What is your opinion/view about?	In my opinion/viewI believe/feelFrom my point of view	†
You are attending a national mathematical conference and you are talking to another delegate.	 Do you have any opinion on? What would you say to? I'd be glad/grateful to have your view/opinion on? 	I considerI hold the view/opinionsIt's my considered opinion that	More formal
		Adapted from Function	in English (1982)

Adapted from Function in English (1982)



Study the following conversation in pairs and identify the expressions of asking and giving opinions and the level of formality then practise the conversation with your partner.

Rani and Paulina are having conversation about their math class today. They are chatting in a small garden somewhere in their campus.

Rani : Did you enjoy the math lecture?

Paulina : The professor droned on and on about dividing and multiplying integers.

Rani : But he's quite funny right?

Paulina : Yeah, but it's like taking all day long to discuss them.

Rani : Well, I think he wanted us to understand it well before moving to the next

topic. You see it right? Many of us haven't understood the materials yet?

Paulina : Is it really difficult topic?

Rani : I believe that for some people it is difficult. Have you solved all the

problems given?

Paulina : Yeah.

Rani : Actually, I still don't get it how to add and subtract integers.

Paulina : Why are they so hard for you?

Rani : I don't know. Have a look at this.

What do you think of this question?

-5+(-9)=..... -5+9=....

Paulina : Well, I must say, it's very easy. If you find it difficult, what you need to do

is focus on the sign whether it is positive or negative. If both of the numbers are negative or positive, you just need to jump them together. You got (-5)

and (-9), so all together, you got (-14).

Rani : Okay. But I usually have problems with the sign.

Paulina : What about using the number line? It will help you think about how

negative and positive numbers work when they are together.

Rani : I'd say you're brilliant.

Paulina : Don't be exaggerating. It's just a common thing. Think of positive numbers

as moving to the right on the number line and negative number as moving

to the left on the number line.

Rani : Oh, I see.

Paulina : Remember that every negative cancels out one positive, so for the second

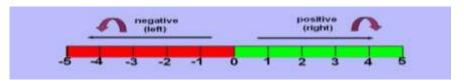
question, 5 negatives cancel out 5 positives and that will leave 4 positives

hanging out.

Rani : That's right. I get it.

Paulina : Now, how do you feel about integer? Is it really difficult topic?

Rani : Well, to my mind, it's quite easy after you help me. Thank you.



Picture 1.4



You will be given a conversation of two students talking about integers with some blank spaces. Complete the blanks using expressions of asking and giving opinions in the left box and adjective and adverb in the right box, then act it out with your partner.

Ashley and Sinta are having conversation about the assignment given by their lecture in food court.

Ashley : Have you read the paper that the professor assigned for tomorrow

class?...(2).... it's(1)..... interesting.

Sinta : No. Not yet. What is it about?

Ashley : It's about integers. There are some questions that should be solved in

pairs and we are going to have group discussion(2).....

Sinta : Well,.....(3)...., it isn't(4)..... at all.

Ashley : By the way, let's study together. We need to solve all the questions.

Sinta : All right, professor(5)..... likes to give(6)..... questions to

his students.

Ashley :(7)..... dividing the questions? Each of us does five questions.

Sinta :(8)..... we'll get(9)..... understanding if we discuss it together.

Ashley : All Right, then.

Snta : Are decimals, fraction and percents included in integer?

Ashley : No, Integers are whole numbers and their negative opposites.

Sinta : Meaning that it includes positive whole numbers,(10)..... whole

numbers and zero?

Ashley : That's right.

Sinta : Do you know the symbol representing integer?

Ashley : Well, I've read the materials about it(11).... Hmmmm, it's alphabet zi,

capital zi. Zi stands for Zahlen, it's used to denote set of integers.

Sinta : I see. It's quite easy.(12).....?

Ashley : \dots (13) \dots the same as you.

Sinta : What issues do we have to solve on integers?

Ashley : Not so many. It's about adding, subtracting,

multiplying and dividing

integers, especially the rules of all of them.

Sinta : There is only 15 minutes left before the next class start. Let's continue

our discussion(14)..... the class ends.

Ashley : Okay.

I think I believe I feel

What about to my mind

What do you feel?

before interesting
quite tomorrow
after sometimes
negative better
unexpected

integer

7

Letter which represents

For Your Information

Mathematical Symbol in Integers

Integers consist of negative number, zero and positive number. The set of integer is usually shown like this:

$$\{\dots$$
 -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, ... $\}$

Sym	nbol Meaning	Example
€	belong to	2, 4, 6 \in integers \rightarrow 2, 4, 6 belong to integers.
≠	(is) not equal	$7 - 3 \neq 3 - 7 \rightarrow 4 \neq -4$
<	less than	$x < y \rightarrow x$ is less than y
<u> </u>	less than or equal to	$x \le y \to x$ is less than or equal to y
>	greater than	$x > y \rightarrow x$ is greater than y
>	greater than or equal to	$x \ge y \to x$ is greater than or equal to y
2	The absolute value of 2,	2 = 2, the absolute value of 2 positives is 2
-5	The absolute value of -5,	-5 = 5, the absolute value of 5 negatives is 5

Note: x and y are letters to replace integers. Absolute value is the distance a number from zero.



Task 8 Let's Play Survey Game

Ask your friends' opinions about integer and their reasons of having such opinions. You have to fill the table below and then share it to your friends in front of the class.

interesting, boring, easy, difficult, challenging, complicated, tricky

No	Your friends' names	Opinions	Reasons
1			
2			
3			
4			
5			



Complete the following situations with expressions of asking and giving opinions, and then identify the level of formality. Using the completed situations, practice them with your partners. Number one has been done for you.

1. Jacob : Excuse me, are you mathematic department student?

Ana : No. I'm not. I'm art department student.

Jacob : As students of art department, what is your opinion about mathematics?

Ana : *In my opinion*, mathematics is a scary subject. It consists of dreadful

formulas.

Jacob : Well, beside that, what do you think of the significance of mathematic in daily

life?

Ana : From my point of view, people don't need all those formulas in their daily life.

For example, if we go to a supermarket to buy some food or drink we don't

need to use sin or tangent.

Jacob : Well thank you, your opinion is really helpful.

Ana : Any time.

2. Lubis is asking Sean for helping him to solve a question in the application of integer.

Lubis : Sean, check this out.

Sean : All right.

Lubis :of this question?

Sean : Well, this question is interesting.

Lubis : I barely solve this question.

Can you solve it? I just want

to make sure that my answer is right.

Sean : Sure.it's really easy question.

First, you need to find the amount of temperature change and set up

a proportion.

One day in July, the temperature at ground level at the airport was 90°. A pilot reported the temperature at 10,000 feet was 50°. How much did the temperature drop per 1000 feet?

Lubis : The change of temperature is 40°, then how is the proportion?

Sean : The distance of second temperature form the ground is 10,000 feet.

The question is how much the temperature drops per 1000. Then you need

to subtract 1000 with 10,000 and multiply the result with 40.

Continued....

Lubis : Wow, that's great., you never find it difficult to solve problems

in integer.

Sean : I couldn't agree with you more.

Lubis : Thanks, dude.

Sean : Anytime.

 $\frac{1000}{10000} \times 40 = 4$

3. Hana and Milley are having a chat after their exam is finished. They are discussing about the question appeared in the exam paper.

Hana : How is your exam? I'm a bit worried of mine.

Milley :, it's quite easy-to-solve.

Hana : Really? You solve all those dreadful questions of integer?

Milley :, integer isn't that scary.

Hana : So, did you solve the question number four?
Milley : I forget the questions, what was about?

Hana : It's about the longitude of New York and Tokyo.

Milley : I see.discuss it together? I'll help you to solve the question.

Hana : Sure. My mind is not at ease at all.

Milley : I you must use the number line. Look, London is 0. New York is in

the west side of London and Tokyo is in the east side of London. If east side

is the positive direction so New York is in negative direction.

Hana : Why couldn't I understand this?

Milley : I you were in panic. All right, should we study together, next time?

Hana :....., I must accept your offering to study together.

Milley : That's a good decision.

Question no.4

London, England, is located at 0° longitude. Write integers for the location of New York City whose longitude is 74° west and Tokyo whose longitude is 140° east. Assume that east is the positive direction.



Task 10Study the following explanation with your partner.



Grammar: Adjectives

According to Cambridge Advanced Learners' Dictionary, an adjective is a word that describes a noun or pronoun. Adjective has its own formation. Adjectives can also be indentified from its position towards nouns. Below is the explanation of adjectives formation and its position towards noun.

A. Formation of adjectives

1. Adjectives formed with suffixes

Many adjectives related to verbs or nouns have characteristics ending (suffix). The suffixes change verbs or nouns into adjectives. Each of suffixes has its own meaning.

B. Formation of adjectives

2. Adjectives formed with suffixes

Many adjectives related to verbs or nouns have characteristics ending (suffix). The suffixes change verbs or nouns into adjectives. Each of suffixes has its own meaning.

-able (capable of being): manageable	-ible (like -able): <i>permissible</i>
-ful (full of): boastful	-(i)an (historical period,etc): victorian
-ic: energetic	-ish(have the quality of): follish,redish
-ive(capable of being):attractive	-ly(have this quality): friendly
-ant: hesitant	-ous: humorous

Example:

- a. I'm <u>attracted</u> by this scheme \rightarrow I find it very <u>attractive</u>
- b. A class of forty can be $\underline{managed} \rightarrow \text{It's just about } \underline{manageable}$

3. Adjectives formed from prefixes

A prefix added to adjectives has a negative effect.:

un-: uncooked, unimaginable	im-: immoral, impractical
in-: incapable, inhuman	dis-: dishonest, disagreeable
il-: illegal, illegible	ir-: irresponsible, irregular

Example:

I think it's possible to solve the problem. I think it's impossible to solve the problem.

Possible has opposite meaning with *impossible*. *im*- gives negative impact to the word *possible*.

Continued.....

4. Compound adjectives of measurements

Compound adjectives can be formed by combining numbers with noun in the singular.

Example:

A twenty-year-old-man

Compound adjective can refer to:

-age: a three-year-old building	-area: a fifty-acre farm
-volume: a two-litre car	-duration: a four-hour meeting
-length: a twelve-inch ruler	-depth: a six-foot hole
-price: a fifty-dolar dress	-time/distance: a ten-minute walk
-weight: a five-kilo bag	

B. Position of adjectives

Most adjectives are used in two ways in English:

- 1. Before noun: Integer is an *interesting* topic. (interesting: adj, topic: noun)
- 2. After be, seem (linking verbs):, etc Integer <u>is</u> *interesting*. (is: be, interesting: adj) **Linking verbs**: be, appear, become, feel, look, prove, seem, smell, taste.

Adapted from English Grammar Practice for Intermediate Students by L.G. Alexander (1998)



Task 11

After studying adjectives in the previous task, restate the following sentences using correct adjectival forms. Discuss with your partner and share your results of discussion with your friends orally.

A. Adjectives using prefixes or suffixes

- 1. I know I <u>hesitated</u> before agreeing. I couldn't help being *hesitant* before agreeing.
- 2. I don't know where you find all that energy. You're tremendously......
- 3. How many absents can be permitted? How many absents are.....
- 4. Sometimes she doesn't behave in a <u>responsible</u> manner. She's quite.....
- 5. Bob is not very capable of making decision. He's.....

B. Compound adjectives

- 1. The project costs two million rupiahs. It's a two-million-rupiahs project
- 2. The lecturer is thirty-five years old. She's.....
- 3. The conference lasts two days. It's.....
- 4. The faculty building is a half of hectare. It's.....
- 5. The examination takes two hours. It's.....



You will be given a game on asking for and giving opinions. Study the game's rules and play the game based on the rules with your classmates. Do some rehearsal before playing the game.

Type of activity:	Function practiced:	Exponent:	
Pair and whole class	- Stating Opinion	- I think that	
	- Describing character	- In my opinion, etc.	
		- Adjective for describing	
		characters	
Situation:	How to do:	Vocabulary:	
You are in the	- Study the vocabulary.	- Efficient	
division of research in	- Choose one of the names to	- Cheerful	
the student	act out.	- Bad-tempered	
organization.	Flo will pair up with Sam	- Good-natured	
Someone in your	Alex will pair up with Terry	- Hopeless at	
division is going to be	Pip will pair up with Robin	- Rigid	
chosen as the leader.	- Each pair should discuss	- Narrow-minded	
Naturally, you hope	who is suitable for the leader	- Open-minded	
it's going to be you.	by stating each of opinions	- Careful	
	based on the card.	- Precise	
	- After take out a name as a	- Careless	
	leader, each pair should	- Disorganised	
	share it to the other pairs.	- Terrible	
	They should state their	- Pompous	
	opinion based on the card,	- Indecisive	
	why they choose the person.	- Down-to earth	
	- If in your class consists of	- Inefficient	
	twelve students or more,	- Grumpy	
	then there will be two or	- Miserable	
	three students who act out a		
	name.		

Note for the game:

Talk to people and find out what they think. Try to convince them of your opinion. Don't tell anyone directly what you think of them, of course, but you can tell them what the other people think about them, if you like.

The cards are in the appendices.





You will be given some situations. Choose one of the situations and create a dialogue talking about integers and use the expressions on asking and giving opinions that you have learned in the previous tasks, then acting out the dialogue with your partners in front of the class. The dialogue should be 200-250 words long.

You're talking with your junior who asks your help for solving a question on integers.

You're having discussion with your classmates about how to multiply integer.

You're talking to your lecturer. Both of you are discussing of how to solve certain questions in dividing integers. You can decide the questions on your own.

You're talking to someone in a seminar who happens to be sitting next to you and you are discussing about the materials about integers which have been presented by the speakers.

You're a tutor and you're having discussion with your student on solving a question related to integers. You can decide the questions on your own.





From the subtopics you have brainstormed in Task 2, choose one of the subtopics and do role play with your partner in front of class using expressions of asking and giving opinions about the subtopic you have chosen.



E

Homework



Task 15

Interview three of your friends on the same departments. You are allowed to interview the upper semester or the lower semester. Ask their opinions about the advantages and disadvantages of studying integers. Then report your interview results in the class.



"Educating the mind without educating the heart is not education et all"

Aristotle

F Let's Make Reflections

Self-Assessment

You have learned all the tasks in this unit. Do reflection based on yourself. Put a tick ($\sqrt{}$) mark on the table of Yes/No according to the statements.

Statements	Yes	No
I can recognize the expression used for		
giving and asking opinions		
I can differentiate the level of formality		
of the expressions of asking and giving		
opinions		
I can apply easily those expression in		
conversation		
I can improve my pronunciation.		
I can improve my vocabulary mastery.		

Give your comments	about this uni	t and the difficulty	that you find	wnen you learn	ı uns
unit here:					
• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •		, 	

Peer Assessment

Ask three of your friends that have worked with you in learning this unit and ask them to give you assessment by putting a thick mark ($\sqrt{}$) on the table of Yes/No according to the statements.

Name of being assessed:....

Statement	Name of assessor:		Name of assessor:		Name of assessor:	
was cooperative						
participated actively in						
the most of activities						
contributed to						
ideas/planning						
was positive and						
helpful						
was responsible in						
doing activities.						

G Summary

Language Functions

Asking for Opinions	Giving Opinion
What about?	I think
What do you think of?	In my opinion
What is your opinion of?	It's my considered opinion that
Do you have opinion on?	

Grammar: Adjectives

a. Formation of Adjectives

Formed with suffixes:	Formed from prefixes:	Compound Adjectives:
manageable,	incapable,	a six-foot hole,
friendly,	immoral,	a twelve-inch rule,
humorous, etc.	dishonest, etc.	a red-haired guy, etc

b. Position of Adjectives

Before noun: an unimaginable miracle.

After be or linking verbs: The miracle is *unimaginable*.

LIST OF VOCABULARY

English	Parts of Speech	Pronunciation	Indonesian
		Transcript	
able	adjective	/ˈeɪ.bl/	mampu
add	verb	/æd/	tambah
appropriate	adjective	/əˈprəʊ.pri.ət/	sesuai
assign	verb	/əˈsaɪn/	memberikan
attend	verb	/əˈtend/	mengikuti
carefully	adverb	/ˈkeə.f ə l.i/	teliti/hati-hati
chart	noun	/tʃaːt/	grafik
consider	verb	/kənˈsɪd.ə r /	mempertimbangkan
contain	verb	/kənˈteɪn/	berisi
decide	verb	/dɪˈsaɪd/	menentukan
delegate	noun	/ˈdel.ɪ.gət/	delegasi
divide	verb	/dɪˈvaɪd/	membagi
drone	verb	/drəʊn/	Berbicara terus menerus
exaggerate	verb	/ɪgˈzædʒ.ə.reɪt/	Melebih-lebihkan
indicate	verb	/ˈɪn.dɪ.keɪt/	menunjukan
line	noun	/laın/	garis
matter	noun	/ˈmæt.ə r /	persoalan
multiply	verb	/ˈmʌl.tɪ.plaɪ/	mengalikan
nuance	noun	/'n j u:.a:n t s/	nuansa
pitch	noun	/pɪtʃ/	titinada
prefix	noun	/ˈpriː.fɪks/	imbuhan awalan
sign	noun	/saın/	tanda
solve	verb	/splv/	memecahkan
subtract	verb	/səbˈtrækt/	mengurangi
suffix	noun	/ˈsʌf.ɪks/	imbuhan akhiran
vowel	noun	/vaʊəl/	huruf vocal
willingness	noun	/ˈwɪl.ɪŋ.nəs/	kemauan

2

We could find articles on quadrilaterals in the library.



In what semester did you study quadrilaterals? What did you learn about quadrilaterals? You may have been familiar with some particular terms of quadrilaterals. Can you give examples of them?

In some particular situations in the classroom, you may ask or give suggestions to your friends or your lecturers about the situation you are in or the things related to the situations.

In this unit, you are going to learn how to ask and give suggestions to others in a conversation. The topic you are going to deal with is quadrilateral.



Let's Get Started



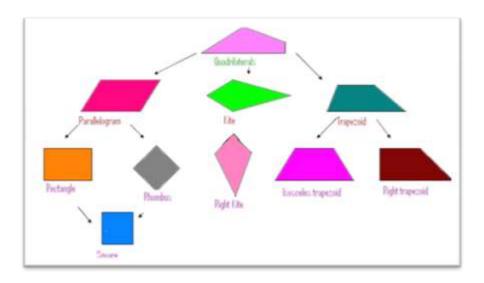
Task 1
Study the following picture and answer the questions.

Questions:

- 1. What is the picture about?
- 2. How do you find the picture?

A

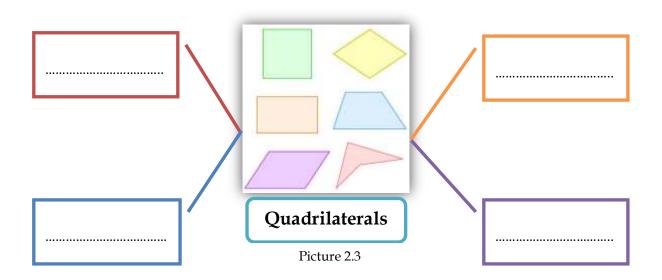
- 3. Suppose that your friend find it difficult in identifying types of quadrilateral and their properties. She asks you to give her suggestions how to overcome her difficulties. What kind of suggestions will you give to her?
- 4. Can you give your suggestions using appropriate expressions of giving suggestions?
- 5. Can your friend also use the expressions of asking for suggestions?
- 6. If you have already known such expressions can you give examples of them?



Picture 2.2



Task 2
Below is a mind map of quadrilaterals. Think about quadrilaterals and write the things that you usually learn in quadrilaterals on the chart.







Below are some verbs and nouns that you are going to find in Task 4. Complete the table and then pronounce the English words. Do it in pairs and ask your partner to check your pronunciation.

No	English	Parts of Speech	Indonesian	Pronunciation Transcription
1	base	noun	alas	/beis/
2	classify			
3	follow			
4	kite			
5	leave			
6	paper			
7	parallelogram			
8	rhombus			
9	shape			
10	trapezoid			



You will listen to a conversation containing some expressions of asking for suggestions about something. Listen carefully and take notes for important information, then tell orally the main point of the conversation to your partner. Ask your partner to tell back to you and compare whether you and your partner have the same understanding or not. The words below will help you in telling the main point of the conversation.

What?	***************************************
Who?	••••••
When?	•••••••
Where?	•••••••
Why?	•••••••
How?	•••••••

For Your Information



Quadrilaterals at a glance

Quadrilateral is a flat shape with four straight sides. Quadrilateral is 2-dimensional shape which the sum of the angles is 360°.















Parallelogram

Rectangle

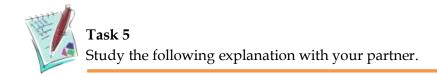
Rhombus

Square

Trapezium (UK)

Below are the symbols that you usually find related to quadrilaterals:

≅ : congruent// : parallel∠ : angle





Language Functions: Asking for Suggestions

Below are the expressions of asking for suggestions:

Expressions	Level of formality
If don't mind, would you like give me your suggestions? Would you give me your suggestions?	More formal
Could you recommend? Could you suggest me? Do you have suggestions for me?	\
Can you tell me what should I do? What should I do? Any idea?	Less formal

There are many others of the expressions. In conversation, you may apply the expressions you have been familiar with.



"Live as if you will die tomorrow. Learn as if you were to live forever"

-Mahatma Gandhi-



Below are two conversations talking about quadrilateral with different level of formality. Identify the level of formality in each conversation and complete the blanks parts in each conversation using appropriate expressions of asking for suggestions or any other responses in the brackets, then act them out with your partner.

A. Rachel and Charlotte are close friend. They often share the problems that they have. Rachel seems have problem and she wants to ask for suggestions to her good friend.

Rachel : I am tutoring mathematics for first year of a senior high school student, but

he seems doesn't interested in math.(1).....?

Charlotte : You may use interesting way in giving explanation to him, or you may use

....(2)..... Some students find it interesting and challenging.

Rachel : Tomorrow's topic is......(3)..... Can I apply games in teaching it?

Charlotte : Sure.

Rachel :(4)..... of what kind of games I can employ?

Charlotte : Well, for example, in introducing the ...(5)..... of quadrilateral you can

use puzzle. He ought to solve each question by finding information from the book or other resources. It will be more interesting than listening to

explanation only.

Rachel : Oh, I see. I'll make the(6).... in the form of family tree of quadrilaterals. In

the top of the tree I'll write a question, for example "are both pairs of the opposite side parallel?" and the down line I'll write yes or no and there will be questions again. In the bottom of the tree there will be boxes and he has

to conclude what the types are based on the questions. How is it?

Charlotte : That sounds good.

Rachel : Really? Or do you have any other(7).....?

Charlotte : Let's try that one first, then we will try to find another(8)..... if it doesn't

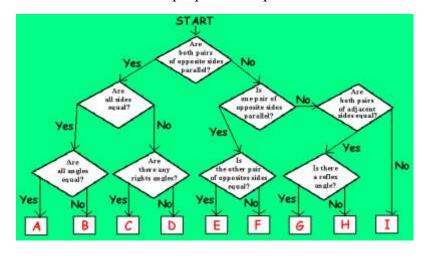
work.

Rachel : All right, thank you so much.

Charlotte : You're welcome. Puzzle of properties of quadrilaterals

- a. suggestions
- b. solution
- c. games
- d. puzzle
- e. quadrilateral
- f. properties
- g. do you have any
 - idea...
- h. can you tell me

what should I do?



Picture 2.5

B. Sania was absent in the yesterday class, Mr. Mycroft' class because she had to attend an international seminar. Therefore, to cover the materials she missed, she studied by herself doing some problems in quadrilateral. However, she found it difficult to solve particular problems. She wanted to ask for suggestions to Mr. Mycroft' assistance.

something angle questions overview thing library characteristics books
Would you tell me... Could you suggest..

Sania : Excuse me. I'm Sania, Mr. Mycroft's student. Can I ask you(1)......?

Assistant : Sure. I'm a little bit free now.

Sania : I was trying to solve some problems on quadrilateral but I found it difficult

to solve this question.(2)......how to solve this question?

Assistant : Let me see the(3).......

Sania : Here.

Assitant : Before I give my suggestion, I want to ask a question to you? Do you

familiar with the(4)..... of rhombus.

Sania : A little bit.

Assistant : As I remember, Mr Mycroft gave some(5)...... about the properties of

quadrilateral. If you attend his class, you should have known.

Sania : I was absent yesterday because I had to attend an international seminar.

Assistant : Well. First(6)..... is you need to know whether ∠DAB and ∠DCB are

congruent or supplementary, then you can operate the function and find

the(7)...... of each in degree and finally you can find $\angle ADC$.

Sania : Oh I see. I get it now.

Assistant : So, are they congruent or supplementary?

Sania : ∠DAB and ∠DCB are congruent. Assistant : That's right. Is there anything else?

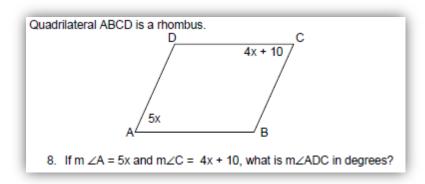
Sania : Well, It's said that Mr. Mycroft showed students few.....(8)....for his class.

.....(9).....me which book is good and easy to be understood?

Assistant : Mr. Mycroft usually uses this book. You can find it in the(10).......

Sania : Well, thank you so much for your suggestions.

Assistant : You're welcome.





Task 7 Let's Play a Game

Play information-gap game below based on the card that you are going to receive.

You will be given a card containing a question about quadrilateral. Each card has a pair in which the pair contains the answer of the question. Find your friend who has the same card as yours then ask her/him to give suggestions of how to solve the question based on the answer on the card.

How to play

After knowing the answer for the question on your card, you and your partner should show the card in the class and share with your friends orally the answer of the questions.

Note: the cards are in the appendices.



Task 8Study the following explanation with your partner.



Grammar: Modal Auxiliaries

It is called as modal auxiliaries because they add to verb some meaning. Modal auxiliaries consist of *can, may, should, ought to, must, have to, may* and soon. Each of them has its own function. They can be used to express *ability, permission, obligation or advisability, necessity, possibility* and soon.

In the previous tasks, you have seen that modals appear in the expressions of asking for suggestions such as *can*, *could*, and *would*. Those are used to express politeness.

		→ more polite
can	could	would

Continued.....

"should, ought to, have to and must"

Obligation or advisability

Should and *ought to* are very similar. They both used to talk about obligation or to give advice.

For example:

Obligation (what one is expected to do) → You should (ought to) do your homework every day.

Advisability (what is wise for one to do) → You should (ought to) study hard if you want to have good results in your study.

The degree of should and ought are the same. They use to suggest some actions which may possibly not be acted upon.

Necessity

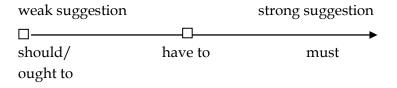
What makes different between necessity and obligation is that necessity does not allow for the possibility of rejection (in term of suggestion).

Must and *have to* are modal auxiliaries which are used to express necessity. They use to give strong recommendation or suggestions.

For example:

You must (have to) read at least 5 articles in Mr. Morriarti's class.

However, **must** is generally felt as stronger than **have to**. Below is the continuum of those modal auxiliaries.



The negative **must** often has different meaning from the negative of **have to**:

Must not	It denotes that it is strongly recommended not to take certain course of	
	action.	
	For example:	
	You must not forget to do your homework because he will not give	
	compensation if you do not do yours.	
Do not have	It denotes that it is not necessary to take certain course of action.	
to	For example:	
	You do not have to bring a pile of books in this class.	

Adapted from Basic English Usage by Michael Swan(1984) and Modern English by Marcella Frank (1972)



You will be given a conversation between two students containing some modal auxiliaries. Analyze the modal auxiliaries used by the speakers with your partner whether the modals are used to express obligation or necessity and give your reasons, after that share your analysis orally with your classmates.

On a free time after the class ends in the afternoon. Molly and Luna are having a chat about the lecture in the campus park.

Luna : It's so refreshing sitting down here after having long lecture.

Molly : I think we should come here often to refresh our mind.

Luna : You're right. Anyway, the last lecture was so tiring. I can't imagine that I

have to remember those all theories about quadrilaterals properties.

Molly : Why should you memorize that? You don't have to do that. You just have

to be familiar with each type of quadrilateral. Just use your logic by

imagining the shape of them.

Luna : I'm with you there.

Well, I actually have one question that I want to discuss with you.

Molly : All right. What is it about?

Luna : About median of trapezium.

Molly : Well, step 1 is that you must know the formula to find EF.

Luna : That's the problem.

Molly : May be you should study more diligently.

All right I'll give you hint. First, you must find the formula by yourself because I won't tell you. Second, before you operate the formula you must find DC. After you find DC, you can apply to the formula and finally you

can find EF.

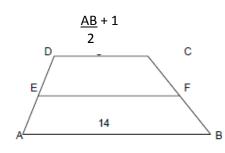
Luna : I hope that you will solve it for me.

Molly : Don't be such a cry baby. Study hard.

Luna : You sound like my mother.

Molly : That's good, I think.

ABCD is a trapezoid with median EF. If DC = AB/2+1cm and AB = 14 cm, find EF.



Solution:

Step 1. Write the formula $EF = \frac{1}{2} (AB+DC)$

Step 2. Find DC

Step 3. Substitute the values of DC and AB into the formula. Solve for EF.



Study the following conversation in pairs and answer the questions based on the conversation.

Lisa : Excuse, are you Mary Watson, professor Snape's assistant?

Watson : Yes, I am.

Lisa : I'm Lisa Putri. I got some assignments from the professor. If you don't

mind, would like to give me some suggestions about them?

Watson : Sure, then.

Lisa : The professor asked us to summarize about quadrilaterals and he said that

we just needed to summarize important suptopics of quadrilateral. After I read some books or any other resources, they all seem to be important but it will be very much. Could you suggest me what I should summarize about

quadrilateral?

Watson : Well, according to you, what subtopics which are considered to be

important to summarize?

Lisa : I have a list of them. I think the properties of quadrilaterals, the

characteristics, area and perimeter.

Watson : Yes, those are important. If I may suggest you, you can add the application

of quadrilateral in real life, the angle of each type of quadrilateral.

Lisa : Can I use some graph or figure?

Watson : Sure. You can use tables or any other graphs. I'd like suggest you to use

family tree of quadrilateral in summarizing the properties.

Lisa : I was thinking about that too.

Watson : Okay, anything else?

Lisa : Can you recommend me what book I can use for the reference? He asked us

to use three or more references.

Watson : Actually there are some modules written by the professor. Just try to look

for them in the library. He never tell his students that he wrote some

modules but if you go to look for them. You will find some.

Lisa : Mary, thank you very much for your suggestions. Those will be

really helpful.

Watson : You're welcome Lisa.

Ouestions

- 1. What is talked about by Lisa and Mary in the conversation?
- 2. What is the relationship of the speakers?
- 3. According to the conversation, can you identify the level of formality?
- 4. Justify your answer for number three by mentioning the indicators that determine the level of formality of a conversation?
- 5. Can you identify the expressions of asking and giving suggestions in the conversation above? (Mention them).



Task 11Study the following explanation with your partner.



Language Functions: Giving Suggestions

Suggestions are not a and why not are often used to	as strong as advice. Might (want to), could, why don't/doesn't make suggestions.
Might (want to) and could	Might (want to) and could are often to express a choice of possible actions. Might is often used with want to. Example: You might ask the librarian the book or you could wait until the professor gives it to us.
Why not and Why don't/doesn't	Why not and Why don't/doesn't are both question forms and ends with a question mark. Why not and Why don't/doesn't are not very common in conversation. Do not use them in academic writing. Examples: Why not prepare for the exam from now? Why don't you discuss it with your friends?

Here are other examples of the expressions for making suggestions:

	<u> </u>	00
Situation	Expressions	Examples
You give	Let's	Let's draw the concept first.
suggestions to		What about using games?
your friends.	What about, (then)?	
		We could always make an
	We could always	analysis on every question.
In a meeting of your organization	I'd like to suggest/propose	May I suggest limiting the invitation, then?
	May/might I suggest,	
	(then)?	If I may make a suggestion, voting will do.
	If I may/might make a	_
	suggestion	I'd like to suggest him as
		the moderator.

Adapted and combined form Function in English (1992) and Advice and Suggestions from cambridge.com

Task 12



You will be given two conversations talking about quadrilaterals with some blank parts. Identify the level of formality of the conversations and complete the blanks parts with your own words or the appropriate expressions of asking and making suggestions, then act them out with your partner.

A. Zeta is asking for suggestions to his brother's friend. He is seven years older than Zeta.

George Wiggins : Hi, Zeta. Is your brother's(1)....?

Zeta : He's going to the supermarket with mom. He said that they will be

home in 10minutes. Please, come in.

Zeta : Well, my brother said that you like math.

George Wiggins : Yeah...

Zeta : Actually, I got(2).... from my lecture. If you don't mind,....(3)....?

George Wiggins : Sure.

Zeta : I find it difficult to solve this question.

Could(4).......of how to solve the question?

George Wiggins : You know how to find area and perimeter of(5)......, right?

Zeta : Yeah...

George Wiggins : First, what about find AE?

Zeta : I've found AE. It is 5 cm but I am bit confuse about CB. Should I

convert the root form?

George : You can just(6)..... in the root form.

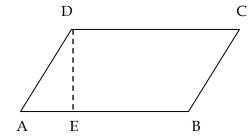
Zeta : Oh I se. AD and BC are parallel so BC is 13. Well, I think I know

how to solve the question now.

George : You could change $\sqrt{27}$ into $3\sqrt{3}$.

Zeta : All right, thank you for your(7).....

George : Not at all.



AD = 13 cm DE = 12 cm $EB = \sqrt{27} \text{ cm}$

B. Yasmin is having a discussion with her friend about the topic that has been explained by their lecturer.

Yasmin : I haven't(1).... yet about what had been explained by

Mr. Holmes. I often get troubles with angles.

Jane : I think angles in quadrilateral are quite simple......(2).....we study

together, now? The next class is two hours later from now.

Yasmin : That's good idea.(3)..... sit at that bench.

Jane : All right, then.

Yasmin : Can you explain how to(4)..... this question?

Jane : This is trapezoid. You may add a new dot as E, then draw line from

C to E. Line CE is(5).... to Line DA so both of them are 12 cm. To

find out EB you can subtract AB with DC, so EB is 5.

Yasmin : Then, I can find line CB by using Pythagoras, right?

Jane : That's right. But why don't you find the angle by using tangent of C

angle so you don't have to find line CB.

Yasmin : Oh, I see.

Jane : Remember. The(6)..... of angles in a triangle is 180 degree.

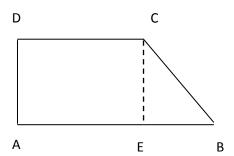
Yasmin : Yeah. In the end, I can find angle B by subtracting 180 with angle E

and C.

Jane :(7)......

Yasmin : You're so clever, Jane. Thank you.

Jane : Any time.



If DA= 12cm, EB= 5cm .Find angle BCE and EBC



Task 13

Let's Play a Game.

Play the game according to the following guideline. Use the expressions of asking and giving suggestions you have learned in the previous tasks.

Situation:

There are several types of materials containing quadrilaterals which have been recommended by your lecturer but you can't afford all of them. You want to have the most effective material for you to study and surely the most affordable one. In order to get such material, you are going to ask your friends' suggestions about the materials.

How to play:

- Make a group of three or four.
- One of the members will be the one who asks for suggestions and the rest members will be those who make suggestions.
- Those who give suggestions will suggest only one type of materials based on the card. They have to mention the reasons why they have such suggestions by explaining the materials based on the cards.
- After getting all the suggestions, the one who asks for suggestions should make a decision which material she/he will choose.
- Share the decisions with your friends in the classroom and your reasons of choosing such material.

Note: the cards are on the appendices.



"It does not matter how slowly you go as long as you do not stop"

Confusius



C Let's Do More



Task 14

You will be given some situations. Choose one of the situations and create a dialog talking about quadrilaterals and use the expressions on asking and giving suggestions that you have learned in the previous tasks, then acting out the dialogue with your partners in front of the class.

You have discussion with your partner about the application of quadrilaterals in real life that you are going to present in the class.

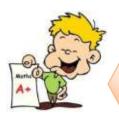
You find it difficult to solve a particular problem of quadrilaterals and you want to ask suggestions your professor's assistant.

You can determine the problem by yourself.

You want to ask for suggestions to your friend from the upper semester a good material for studying quadrilateral because you find it difficult to understand about quadrilateral by reading the materials that you have.

You want to ask suggestions to your friend of how to solve a particular problem on complex quadrilaterals.

You can determine the problem by yourself.



D Let's Do Evaluation



Task 15

From the subtopics you have brainstormed in Task 2, choose one of the subtopics and do role play with your partner in front of class using expressions of asking and giving suggestions about the subtopic you have chosen.



E

Homework



Task 16

Interview three of your friends in the same departments. You are allowed to interview the upper semester or the lower semester. Ask their suggestions of how to learn quadrilateral easily. Then report your interview results in the class.

F Let's Make Reflections

You have learned all the tasks in this unit. Do reflection based on yourself. Put a tick ($\sqrt{\ }$) mark on the table of Yes/No according to the statements.

Statements	Yes	No
I can recognize the expression used for		
asking and making suggestions		
I can apply easily those expression in		
conversation		
I can improve my pronunciation.		
I can improve my vocabulary mastery.		
Give your comments about this unit and the	he difficulty that you h	ave when you learn this
unit here:		

Peer Assessment

Ask three of your friends that have worked with you in learning this unit and ask them to give you assessment by putting a thick mark ($\sqrt{}$) on the table of Yes/No according to the statements.

Name of being assessed:

Statement	Name of assessor:		Name of assessor:		Name of assessor:	
	• • • • • • • • • • • • • • • • • • • •					
				T		
was cooperative						
participated actively in						
the most of activities						
contributed to						
ideas/planning						
was positive and						
helpful						
was responsible in						
doing activities.						

Expressions of asking and giving suggestions:

Expr	The level of formality	
Asking for suggestions	Giving suggestions	
If don't mind, would you	If I may make a	More formal
like give me your	suggestion	
suggestions?		
Would you give me your	I'd like to suggest	↑
suggestions?		
Could you suggest		
me?		
	We could always	↓
Do you have suggestions		V
for me?	What about	
Can you tell me what	Let's	Less formal
should I do?		LC55 IOIIII

Modals and their usage:

Modal	Usage
Should/ought to	To express obligation or advisability. They use to express to give moderate recommendation.
Have to/ must	Have to and must are used to express necessity. They use to give strong recommendation.

LIST OF VOCABULARY

Vocabulary	Part of speech	Pronunciation Transcript	Indonesian Equivalent
angle	noun	/ˈæŋ.gl/	sudut
apply	verb	/əˈplaɪ/	menerapkan
area	noun	/ˈeə.ri.ə/	luas
base	noun	/beis/	sisi alas
challenging	adjective	/ˈtʃæl.ɪn.dʒɪŋ/	menantang
consider	verb	/kənˈsɪd.ə r /	mempertimbangkan
isosceles	adjective	/aɪˌsɒs. ə l.iːz	sama kaki
kite	noun	/kaɪt/	layang -layang
librarian	noun	/laɪˈbreə.ri.ən/	penjaga perpustakaan
leg	noun	/leg/	sisi kaki pada trapesium
length	noun	/leŋ $k \theta$ /	panjang
may	Modal verb	/meɪ/	boleh
measurement	noun	/ˈmeʒ.ə.mənt/	pengukuran
overcome	verb	/ ˌəʊ.vəˈkʌm/	mengatasi
particular	adjective	/pəˈtɪk.jʊ.lə r /	khusus
perimeter	noun	/pəˈrɪm.ɪ.tə r /	keliling bangun datar
property	noun	/pəˈrɪm.ɪ.tə r /	sifat (bangun datar)
recommend	verb	/ˌrek.əˈmend/	menganjurkan
rectangle	noun	/ˈrek.tæŋ.gl/	segi empat
rhombus	noun	/ˈrɒm.bəs/	belah ketupat
side	noun	/saɪd/	sisi
square	noun	/skweə r /	kotak
trapezoium	noun	/ˈtræp.ɪ.zəɪd/	Trapezium

What I'd Like to Present to You Today is Linear Algebra.



Picture 3.1

How many times do you do presentations every week? How do you organize your presentation? At the end of your presentation, do you always make a generalization/conclusion of the topic that you have presented?

Algebra is a very well-known part of mathematics. You must have been familiar with it because it is a very broad branch and it is applied in many fields.

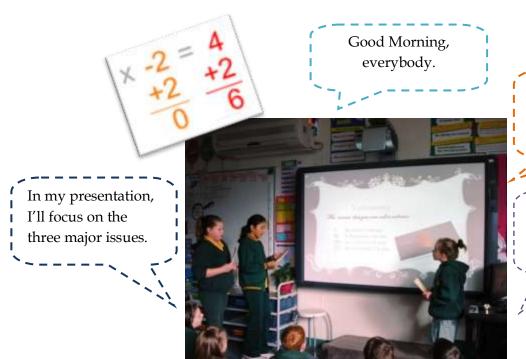
In this unit, you are going to learn some expressions to do presentations and make generalizations. You are also going to practise how to use them in presentations while discussing sub topics of algebra.



Let's Get Started



Task 1Study the following picture and answer the questions.



Let me introduce myself. My name is Ann Brown.

The subject of my presentation is Linear Algebra

Picture 3.2

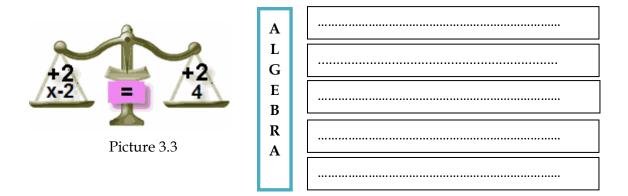
Questions

- 1. What kind of activity does the picture show?
- 2. How often do you do such activity every week in the classroom?
- 3. How do you organize such activity?
- 4. The activity has some parts. Can you mention those parts?
- 5. In every part, you need to use different expressions which signal the part. Can you give an example of the expressions signalling each part?



Task 2

Algebra is a very broad part of mathematics. Write sub-topics of algebra that you have learned or you are going to learn in the available boxes.





В

Let's Take Action



Task 3

Below are some nouns that you are going to find in Task 4. Complete the table below and then pronounce the English words. Do it in pairs and ask your partner to check your pronunciation.

No	English	Parts of Speech	Indonesian	Pronunciation
1	branch	noun	cabang	/bra:n $t \int$ /
2	chart			
3	constant			
4	issue			
5	letter			
6	perception			
7	phenomena			
8	survey			
9	value			
10	variable			



Task 4

Listen to the monologue of a student doing presentation and answer the following questions. And share your answer with your friends.

Questions

- 1. Who is the presenter?
- 2. What is the topic of her presentation?
- 3. How many issues are going to be presented? What are they?
- 4. What is the speaker's opinion about the topics?
- 5. Presentation usually consist of some parts, can you guess how many part of her presentation? Mention the part of her presentation.
- 6. In her presentation, the speaker says "Let's move to next part". What is her intention of saying that sentence?
- 7. What does the speaker do in the end of her presentation?



Task 5
Study the following explanation with your partner.



Useful Expressions for Presentation

A presentation can be divided into some parts: opening, main part and closing. In each part of presentation, you need to use different expressions which are appropriate to be used in the each part.

In doing presentation, you may need a lot of expressions such as expression for explaining something, for describing something, for reading a chart or graph, for making generalization and soon. We will learn the expression for reading charts, graph and etc and the expressions of making generalization in the next tasks in this unit.

Continued....

Below are some examples or useful expression for presentation.

Opening	Main part	Closing
Welcoming audience:	Saying what is coming:	Indicating the end of your
Good morning/afternoon,	In this part, I'd like to talk	talking:
ladies and gentlemen.	about	I'm now approaching the
Hello/Hi everyone.		end of my presentation.
etc		Well, this brings me to the
	Indication the end of a	end of my presentation.
Introducing yourself:	section:	That covers just about
Let me introduce myself.	This brings me to end of	everything I wanted to say
I'm	my first point.	about
Let me just started by	J 1	
introducing myself. My	Summarizing a point:	Summarizing points:
name is	Before I move on, I'd like to	To conclude/ in conclusion,
	recap the main points	I'd like to
Introducing your topic:	Let me briefly summarize	To sum up (then), we
What I'd like to present to	the main issues.	To built up (theri), wen
you today is	100 110 110 110 110 110 110 110 110 110	Making recommendations:
I'm here today to present	Moving to the next part:	We, therefore, recommend
Today, I'm going to talk	Let's move on/turn to	that
about	This lead directly to my	In my opinion, we should
	next point.	y o r
Structuring:	Let's now take a look at	Generalizing:
I've divided my		Broadly speaking,
presentation into three	Introducing and	Generally speaking
(main) parts.	explaining visual aids:	9
In my presentation I'll focus	Take a look at this,	Inviting questions:
on three major issues	Let's have a look at this,	Are there any questions?
j	Here we can see,	We just have time for a few
Timing:	I'd like you to look at this.	questions.
My presentation will take	S	And now, I'll be happy to
about 30 minutes.	Highlighting and	answer any questions you
It will take about 20	commenting visual aids:	may have
minutes to cover these	As you can see	J
issues.	I'd like us to look atin	
	more detail.	
Questions:		
There will be time for	Interpreting visual aids:	
questions after my	I'm sure the implication of	
presentation.	this/the conclusions to be	
Feel free to ask questions at	drawn from this are clear	
any time during my talk.	to all of us.	
, 0 ,		

Adapted and Combined from useful phrases for presentation from www.gnosislearning.com, www.courseware.zcu.cz and module of an Introduction of Business English.



Task 6

Below is presentation script about sub topic of algebra with some blank spaces. Complete the blanks with the expressions in the Task 4, then act out the script. Ask your partner to check your pronunciation and gestures.

I'm(2).....

As you have already known that in Linear algebra, we will meet many of linear equations, from the simple one to the complicated one.

Well, to simplify the cumbersome notation for a system in linear system, we can use matrices. Therefore, Today(3)..... the notation of matrices.

In my presentation, \dots ...(4)...... two main issues. First is the definition of matrix. Second is the percentage of students using matrices to simplify linear equations. And my talk \dots (5)...... 15 minute.

Well, talking about matrix. What is matrix? A matrix is simply a rectangular array of real numbers. An $m \times n$ matrix is an array having m rows and n columns. Let me give an example:

$$A = \begin{pmatrix} a_{11} & a_{12} & \dots & a_{1n} \\ a_{21} & a_{23} & \dots & a_{2n} \\ \vdots & \vdots & \dots & \vdots \\ a_{m1} & a_{m2} & \dots & a_{mn} \end{pmatrix}.$$

If m=n, we say A is square of degree n. the set of all m x n matrices with real entries will be denoted by $m \times n$ where R is real numbers.

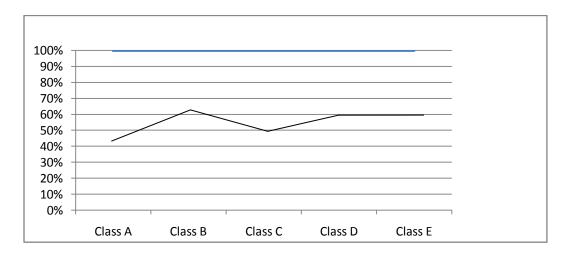
.....(6)..... the next issue.

Take a look on the chart here.

This is the result of my interview to our friends from class A to E regarding of how many students use matrices to simplify linear equations.

Continued....

The chart of the students 'percentage using matrices



The percentage shows the percentage of the number of students who used matrices. The trend shows that in most classes, more than 50 % students use matrix to solve linear equation.

Well,(7)..... of my presentation.

......(8)......, a matrix is a rectangular array of real numbers which usually use to simplify linear equation in linear algebra. And about more than 50% students of mathematics in the semester four use it to simplify linear equation.

Thank you very much.

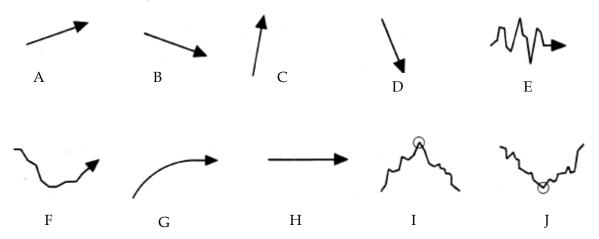


The more confident a person stands, the more believable what they are saying becomes.

anonim

For Your Information

By using visual aids in your presentation, you have to know how to read them. Below is how to read the change and development in the visual aids.



A increase/rise	B decrease/fall	C shoot up/take	D plunge / slump	E fluctuate
		off		
Е	F	Н	I	J
Recover/pick	stabilize	remain steady	peak	hit low
up	level off	-	_	

Adapted from Presenting in English by Mark Powell (2002)



Task 7

Study the following sentences and the underlined words. Answer the questions based on the sentences in the box with your partner.

It is because using Gauss's method is fast and easy.

Gauss's method has three operations in solving linear system.

In <u>doing</u> presentation, you may need to use many types of expressions.

- 1. Do you familiar with the form of the underlined words?
- 2. In your opinions, what is the part of speech of those words?
- 3. Do you familiar with gerund?
- 4. If you have familiar with gerund, what is gerund?
- 5. Can you give three examples of gerund?



Task 8 Study the following explanation with your partner.



Grammar: Gerund

A gerund is a **verbal**. It is a word derived from a verb. Though gerunds are verbal, they are act as **nouns**.

For example:

Cheating is not allowed in this class.

I enjoy **reading** books.

The form of gerund look identical to present participles (**verb+ing**) but they do not act as present participles. Gerund "**cheating**" acts as a **noun** (subject of the sentence).

The table below shows the positions of gerund in a sentence:

Positions	Examples
Subject of a verb	Cheating is not allowed in the class.
Object of a verb	I enjoy reading books
The complement of to be	His bad act was <i>criticizing</i> too much the presenter.
After prepositions	She is very good in <i>introducing</i> the topic to the audience.
After determiners [a, the, this, some, a lot of]	The <i>talking</i> is very boring.
After adjectives	It was a bad <i>timing</i> to discuss about the matter.
In certain expressions	It's no use <i>trying</i> to help her. It is for <i>pointing</i> to the screen.

Gerunds are often part of phrases for example:

Arguing about this matter will not give you advantage.

"Arguing about this matter" includes gerund and prepositional phrase, but it is one unit in the sentence acting out as a subject.

Adapted from Grammar Practice for Upper Intermediate Students By Elaine Walker and Steve Elsworth (2000).



Task 9

There are five mistakes on the speakers' lines in the conversation below. Identify the mistakes and correct the words by changing them into gerund and then identify the positions of them based on what you have learned about gerund in the previous task. After that, practise the conversation with your partner.

Adrian is presenting about "Differential Equations Solution" in the class. In the Q&A section, one of his friends asks him some questions.

Adrian : We will have about 10 minutes for questions in this section. Please feel free

to ask me questions related to my presentation.

Sophie : Well, my name is Sophie. Accord to your presentations, there are four

kinds of solutions. Can you explain more about the examples of the explicit solution? because I'm still not clear about it and the difference between

explicit and implicit solution.

Adrian : Thank you Sophie, I'll directly answer your question. However, before

explain more about the example of explicit solution, I'd like highlight the difference between explicit solution and implicit solution. In the explicit solution, the solution is clear, you can know the answer but in implicit solution you can't. Have look at the examples of both solutions. By look at example A you can directly know y but in the example B, you need to the break down the solution in order to find x or y. Therefore, example A is explicit solution and example B is implicit solution. Does my explanation

answer your curiosity, Sophie?

Sophie : Well, I think I am quite clear about it by listen to your explanation just

now. Thank for the enlighten explanation.

Adrian : You're welcome. Alright, because we're running out the time, let me end

this section. Thank you very much for the attention and participation.



Equation: $\frac{dy}{dx} = -\frac{y}{2}$

has solutions as the following: Solution A (explicit solution):

$$y = \pm \sqrt{4} - \sqrt{x^2}$$

Solution B (implicit solution:

$$x^2 + y^2 - 4 = 0$$

Picture 3.4



Task 10

Study the following statements and answer the questions. You are allowed to have discussions with your friends in answering the questions.

Statement A:

Generally speaking, Algebra is very broad topic in mathematics.

Statement B:

<u>About more than fifty percent</u> of the students of mathematics in the semester four use matrix to simplify linear equations.

- 1. In which part of presentation do you usually find statement like statement A?
- 2. Can you guess the function of statement A in a presentation?
- 3. Do you familiar with the underlined phrases?
- 4. Those phrases are used to express something. Can you guess what are the functions of them?



Task 11 Study the following explanation with your partner.



Language Function: Making Generalizations

Generalization is a broad statement about a group of people or things. It is a specific kind of conclusion. All generalizations are conclusions, but not all conclusions are generalizations. Generalization is kind of summary.

A generalization is formed from a number of examples or facts and what they have in common. Key words which support instruction for generalization are *all*, *none*, *most*, *many*, *always*, *everyone*, *never*, *sometimes*, *some*, *usually*, *seldom*, *few*, *generally*, *in general* and *overall*. You can also make generalizations using numbers such as *ninety percent of the students*, *nine times out of ten*...

Continued....

A true generalization has the following characteristics:

- supported by facts
- agrees with what you already know about the topic
- uses logic and reasoning
- proven with several example

Beside the keywords mentioned before, there are some expressions which can be used to make generalization:

Expressions	Usage	Level of formality
a. In generalb. Generally speakingc. There is tendency for something to	They can be used in official and scientific writing.	Formal
d. On the whole	It can be applied in some business correspondence.	Less formal
e. What normally happens is	It is followed by a sentence describing the normal, event, occurrence or situation.	Less formal
f. Usually	It refers to the high frequency of the statement being true.	Less formal

Adapted and combined from www.learner.org, www.falibo.com and Reading Skill Lesson Wetumpka Intermediate School.



Task 12

Study the following situations. Make a generalization for each situation orally using the expressions that you have learned in the previous task and ask your partner to check whether your generalizations are valid or not. Situation A has been done for you

Α

I can understand easily the law on the arithmetic operations.

My friends can solve the questions easily using the law on arithmetic operations. I haven't heard my friends complaining in studying the law on arithmetic operations.

Generalization:

The law on arithmetic is an easy operation for most of my friend in the class

B.
Students show enthusiasm in studying fraction. Students can solve the questions containing fraction with the same denominators in less than 3 minutes. Students can solve most the questions given by lectures containing fraction with the same denominators and different denominators.
Generalization:
C.
Some students say that they need to read the book twice or more to understand quadratic formulas. A few of students can solve particular quadratic formulas in less than seven minutes and have right answers. Generalization:
D.
The lecture needs two meeting only to discuss linear algebra. Only few students get bad marks on linear algebra. Students look happy studying linear algebra.
Generalization:



"The more that you read, the more things you will know. The more that you learn the more places you'll go"

Dr.Seuss

Task 13



Below is the material for presentation. Make a group of three and each of members should do presentation with the material and using the appropriate expressions that you have learned in the previous tasks. Apply gerund and generalization in your presentation and give your friends feedback for her/his presentation. If necessary, you can add some information related to the material.

Linear System and the Gauss's Method

Linear system

Linear system is a system which has linear variable

The combination $3x1 + 2x2$	They are linear.
$3x_1^2 + 2\sin(x_2)$	They are not linear.

The first example is linear because in each system of the equations involve only the first power of each variable.

Gauss's Method

Gauss's method is the fastest and easiest method to solve linear system. Gauss's method is safe to solve linear system because it never losses solution and it never picks up extraneous solution

The Theorem of Gauss's Method:

If a linear system is changed to another by one of these operations

- 1. an equation is swapped with another
- 2. an equation has both sides multiplied by a nonzero constant
- 3. an equation is replaced by the sum of itself and a multiple of another then the two systems have the same set of solutions

Adapted from Linear Algebra from Jim Hefferon (2013)





Let's Do More



Task 14

Choose one of the topics below and present it in front of the class. Use the expressions that you have learned in the previous tasks and use gerund and generalization in the presentation. You may use power point to help you presenting the topic. The duration of your presentation cannot be longer than 10 minutes.

Basis in Vector Spaces

A basis for a vector space is a sequence of vectors that is linearly independent and that spans the space.

Dimension in Vector Spaces

A vector space is finite-dimension if it has a basis with only finitely many vectors.

Matrix Multiplication

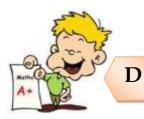
Classification of Differential Equation

Differential equation is an equation containing the derivates of one or more dependent variables, with respect to one or more independent variables. Differential equation is classified by type, order, and linearity.

Autonomous Equation of Differential Equation

Autonomous equation is an equation in which the independent variables do not appear explicitly.

Exact equation of differential equations



Let's Do Evaluation



Task 15
Work in group of four and do the following activity.

No	How to do
1	Each member of the group should do a presentation.
2	Choose your own topic related to algebra and present it in front of the class. Use the expressions that you have been learned in the previous tasks and apply gerund and generalization in the presentation. You may use power point to help you presenting the topic. The duration of your presentation cannot be longer than 10 minutes
3	 The other members should evaluate the presentation. Therefore the presentation of the entire member of the group will be evaluated. Evaluation checklist: Topic (is the topic related to algebra?) Expressions (is the presenter using appropriate expressions in every part of her/his presentation?) Does she/he apply gerund in her/his presentation? What are they? Does she make any generalizations on her/his presentation? What are they? Are the generalizations valid/not? Give the reasons.
4	The results of evaluation should be shared in the class.



E

Homework



Task 16

Do a survey to five friends who do not join the English speaking club to find out how they do their presentations and ask them whether they use expressions as you have learned in this unit or not and then report the results of the survey in the class

F Let's Make Reflections

You have learned all the tasks in this unit. Make a reflection based on yourself. Put a tick ($\sqrt{\ }$) mark on the column of Yes/No according to the statements.

Statemen	ts		Yes		No	
I can recognize the expre	ssion used f	or				
making generalizations.						
I can recognize the expre	ssion used f	or				
doing presentation.						
I can apply easily the exp	ressions of					
making generalization in	conversatio	ons				
and presentation.						
I can apply easily the exp	ressions use	ed				
for presentation in a pres	entation.					
I can recognize and apply	y gerund in	a				
presentation.						
I can improve my pronui						
I can improve my vocabu	ılary master	у.				
Give your comments abounit here: Name of being assessed:						
Statement	Name of a			assessor:	Name of	assessor:
		•••••		•••••		
was cooperative						
participated actively in the most of activities						
contributed to						
ideas/planning						
was positive and						
helpful						
was responsible in						

G

Summary

Making generalization

Key words of making generalization:

all, none, most, many, always, everyone, never, sometimes, some, usually, seldom, few, generally, in general and overall.

A valid generalization is supported by facts, proven with several examples and uses logic and reasoning.

Gerund

A gerund is a verbal that ends in *-ing* and functions as a noun. It occupies some positions in a sentence such as, as a subject, as an object, a subject complement (the complement of to be), as object of prepositions (after preposition) and etc.

Doing presentation

A presentation is usually divided into three parts which are introduction or opening part, main part and closing part. In each part you need to use different expression and jobs.

In the opening part, you introduce yourself and your topic or even do some brainstorming related to the topic. In the main part, you explain the issues that you take, while in the closing part, you give some conclusion of you have presented and some recommendation (if it is necessary).

VOCABULARY LIST

English	Parts of speech	Pronunciation Transcription	Indonesian
assign	verb	/əˈsaɪn/	menugaskan
branch	noun	/bra:n $t \int$ /	cabang
broad	adjective	/bro:d/	luas
common	adjective	/ˈkɒm.ən/	lazim
complement	noun	/ˈkɒm.plɪ.ment/	pelengkap
correspondence	noun	/ kɒr.ɪˈspɒn.dən t s/	korespondensi/ persesuaian
deliver	verb	/dɪˈlɪv.ə r /	mrnyampaikan
denominator	noun	/dɪˈnɒm.ɪ.neɪ.tə r /	bilangan penyebut
equation	noun	/ıˈkweɪ.ʒ ə n/	persamaan
exercise	noun	/ˈek.sə.saɪz/	latihan
extraneous	adjective	/ıkˈstreɪ.ni.əs/	tak berhubungan
figure out	verb	/ˈfɪg.ə r aʊt/	menemukan
instruction	noun	/ɪnˈstrʌk.∫ə n/	instruksi
major	adjective	/ ˈmeɪ.dʒə r /	penting
noise	noun	/nəɪz/	kegaduhan
occurrence	noun	/əˈkʌr. ə n t s/	kejadian
official	adjective	/əˈfɪʃ. ə l/	resmi
phenomena	noun	/fəˈnɒm.ɪ.nə/	kejadian/gejala
quiet	adjective	/kwaɪət/	tenang
review	verb	/rɪˈvjuː/	tinjauan
submit	verb	/səb'mɪt/	menyerahkan
scientific	adjective	/ˌsaɪənˈtɪf.ɪk/	ilmiah
surface	noun	/'sa:.fis/	permukaan
theorem	noun	/ˈθɪə.rəm/	dalil
value	noun	/ˈvæl.juː/	nilai
weightlifting	noun	/ˈweɪtˌlɪf.tɪŋ/	angkat beban

References

Alexander, L.G. 1990. Longman English Grammar Practice for Intermediate Students. Essex: Addison Wesley Longman Ltd.

Blundell, Jon., Higgens, Jonathan & Middlemiss, Nigel. 1982. Function in English. Hong Kong: Oxford University Press.

Suciati. Module of Introduction of Business English. Universitas Negeri Yogyakarta.

Powell, Mark. 2002. Presenting in English. Boston: Heinle.

Walker, Elaine & Elsworth, Steve. 2000. *Grammar Practice for Upper Intermediate Students*. Essex: Pearson Education Ltd.

Advice and Suggestions: the Right Job. Retrieved from www.cambridge.org

English for Presentation: Useful Phrases and Vocabulary. Retrieved from www.gnosisleraning.com

Giving Presentation: Useful Phrases. Retrieved from www. coursewave. zco. cz

Making Generalization. Retrieved from www.learner.org

Making Generalization. Retrieved from www. falibo.com

The List of Pictures

Cover

Picture 1 : Taken from www.google.com Picture 2 : Taken from www.ceist.ie Picture 3 : Taken from www.marion.com

Unit 1

Picture 1.1 : Taken from www.olnefriends.org
Picture 1.2 : Taken from cjreach.worpress.com
Picture 1.3 : Taken from www.ppst.com
Picture 1.4 : Taken from www.marion.com

Unit 2

Picture 2.1 : Taken from www.google.com
Picture 2.2 : Taken from www.google.com
Picture 2.3 : Taken from www.google.com
Picture 2.4 : Taken from www.kwisnet.com

Unit 3

Picture 3.1 : Taken from blog.loyola.edu

Picture 3.2 : Taken from primarytech.global2.vic.edu Picture 3.3 : Taken from primarytech.global2.vic.edu

Picture 3.4 : Taken from www.google.com

Appendices

UNIT 1: Task 4

Colby and Fita are roommate. They attend the same college. They even go to the same department which is mathematics department. Now, they are studying for tomorrow's class.

Colby: Have you read some materials for the next meeting? Fita: Yeah, a bit. But those materials are very complicated.

Colby: What about read mine? I got them from internet and they're simpler than yours.

They explain about integer in a very simple and clear way.

Fita : I think that's a good idea. Thank you.

Colby: Anytime. I believe that studying integer will not be boring.

Fita : Really? Why?

Colby: You have read some materials about it. Don't you find it interesting?

Fita : As I see it, it's quite interesting but it will no longer interesting if this time the professor gives us abundant assignment as before.

Colby: Don't you think that you're exaggerating?

Fita : Not really.

Colby: Integer is a number that can be written without fractional or decimal component.

I think it's quite easy and interesting though may be the professor will give quite a lot assignments.

Fita : Why are you so interested in Integer?

Colby: Because it is applicable for our daily life, that's why I like it. As you know that studying integer means dealing with negative and positive number. In our daily life those number are needed to represent physical quantities for example in temperature, altitude and the amount of money.

Fita : Can you explain it more?

Colby: No problem. For example, you can say "the altitude of death valley is 282 feet below the sea level meaning that the altitude is minus 282 feet.

Fita : I got it, so if the temperature in Chicago is 10 degree of Fahrenheit below zero meaning that the temperature is minus 10 degree of Fahrenheit?

Colby: That's right.

Fita : That's quite easy but we are not only going to study about those kinds of things right?

Colby: Of course not. I've already read it that we are going to learn how to add and subtract integer and also multiply and divide integer. What do you think? It's interesting, isn't it?

Fita: I'm not sure.

Colby: Are you afraid of this?

Fita : Just a little bit.

UNIT 1: Task 8

Ashley : Have you read the paper that the professor assigned for tomorrow

class? I think it's quite interesting.

Sinta : No. Not yet. What is it about?

Ashley : It's about integers. There are some questions that should be solved in

pairs and we are going to have group discussion tomorrow.

Sinta : Well, to my mind, it isn't interesting at all.

Ashley : By the way, let's study together. We need to solve all the questions.

Sinta : All right, professor sometimes likes to give unexpected questions to

his students.

Ashley : What about dividing the questions? Each of us do five questions. Sinta : I believe we'll get better understanding if we discuss it together.

Ashley : All Right, then.

Snta : Are decimals, fraction and percents included in integer?

Ashley : No, Integers are whole numbers and their negative opposites.

Sinta : Meaning that it includes positive whole numbers, negative whole

numbers and zero?

Ashley : That's right.

Sinta : Do you know the symbol representing integer?

Ashley : Well, I've read the materials about it before. Hmmmm...it's alphabet

zi, capital zi. Zi stands for Zahlen, it's used to denote set of integers.

Sinta : I see. It's quite easy. What do you feel?

Ashley : I feel the same as you.

Sinta : What issues do we have to solve on integers?

Ashley : Not so many. It's about adding, subtracting, multiplying and

dividing Integers, especially the roles of all of them.

Sinta : There is only 15 minutes left before the next class start. Let's continue

our discussion after the class ends.

Ashley : Okay.

UNIT 1: Task 12

Flo	Sam
You wouldn't mind if Sam or Alex gets the	You wouldn't mind if Alex or Terry gets
position. Sam is very efficient and Alex is a	the position. Alex is a cheerful sort of
nice cheerful person. But you're hope that	person and Terry is good-natures. But you
it's not Terry or Pip. Terry is very bad-	hope it's not going to be Pip or Robin. Pip
tempered and Pip is hopeless at figures	is absolutely hopeless at figures and Robin
	is so rigid and narrow-minded.
Alex	Terry
You wouldn't mind if Terry or Pip gets the	You wouldn't mind if Pip and Robin gets
position. Terry is very good-natures and	the Job. Pip is very careful and precise:
kind and Pin is very careful; and precise:	very flexible and open-minded. But it
very good with figures. But it would be a	would be terrible if Jan or Chris got the
disaster to have Robin is so narrow-minded	positions. Jan is totally disorganized and
and Jan is so careless and disorganized.	Chris is so pompous.
Pip	Robin
You wouldn't mind if Robin or Jan gets the	You wouldn't mind if Jan and Chris gets
positions. Robin is a very tolerant and	the positions. Jan is very competent and
flexible person. Jan is very organised. But	organized and Chris is a nice,
you'd hate to have to work for Chris or Flo.	unpretentious down-to-earth sort of
Chris is so unbelievably pompous and Flo	person. But it would be disaster if Flo or
is so indecisive.	same got the position. Jo is weak and
	indecisive and Sam is very inefficient.

UNIT 2: Task 4

Devi and Grace are doing their homework to create quadrilateral family tree from their professor.

Devi : Grace are you sure we are able to finish all of these this afternoon? We

haven't classified the quadrilaterals yet and we have to create each shape of them precisely. You know that the professor is very thorough. He won't

leave any single part.

Grace : I know but don't worry I have got the design for creating quadrilateral

family tree. Just follow the design.

Devi : All right then, what about classify the shapes first and determine their

measurements so that we will find out how many papers we need to make

the family tree.

Grace : let's do so. Shall we start right now?

Devi : sure.

Grace : Well, we will do with four-sided polygon so it will be simple.

Devi : Then, let me write down the classification.

Grace : Four-sided polygon is divided into three. They are parallelogram, kite and

trapezoid. Parallelogram and trapezoid are divided again based on their types. Parallelogram has two types, rectangle and rhombus. All of them are

square. For the trapezoid, there are two types as well, right trapezoid and

isosceles trapezoid.

Devi : What about kite?

Grace : Kite is only kite. It is not mentioned in the book that kite has various types.

Devi : Then we need four different colors of papers. One for the base, the thicker

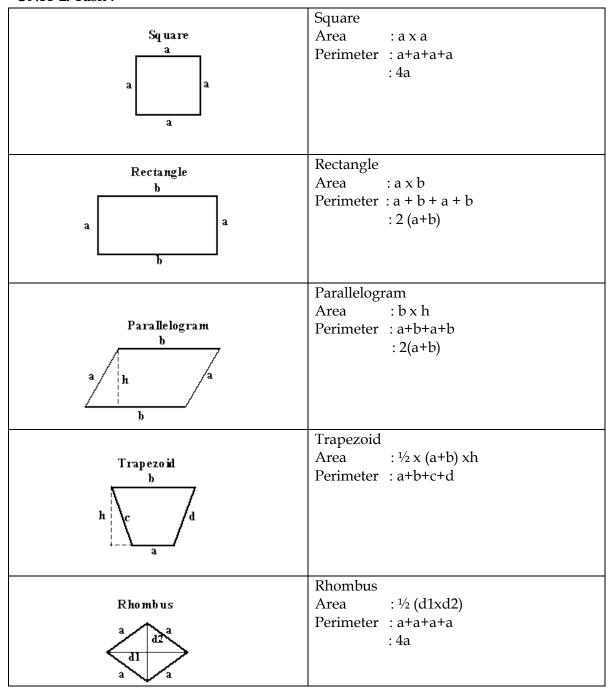
paper and the rest will be for each type.

Grace : Sounds good. Lets' buy them right now. I'll get the motorcycle key in my

brother's room.

Devi : Alright.

UNIT 2: Task 7



UNIT 2: Task 12

First conversation

Zeta is asking for suggestions to his brother's friend. He is seven years older than Zeta.

George Wiggins : Hi, Zeta. Is your brother's home?

Zeta : He's going to the supermarket with mom. He said they will be home

in 10 minutes. Please, come in.

George Wiggins : Thank you.

Zeta : Well, my brother said that you like math.

George Wiggins : Yeah...

Zeta : Actually, I got assignments from my lecture. If you don't mind,

would you like to help me?

George Wiggins : Sure.

Zeta : I find it difficult to solve this question. Could you give suggestions

how to solve the question?

George Wiggins : You know how to find area and perimeter of parallelogram, right?

Zeta : Yeah...

George Wiggins : First, what about find AE?

Zeta : I've found AE. It is 5 cm but I am bit confuse about CB. Should I

convert the root form?

George : You can just write in the root form.

Zeta : Oh I se. AD and BC are parallel so BC is 13. Well, I think I know

how to solve the question now.

George : You could change $\sqrt{27}$ into $3\sqrt{3}$.

Zeta : All right, thank you for your suggestions.

George : Not at all.

Second conversation

Yasmin is having a discussion with her friend about the topic that has been explained by their lecturer.

Yasmin : I haven't understood yet about what had been explained by

Mr. Holmes. I often get troubles with angles.

Jane : I think angles in quadrilateral are quite simple. Shall we study

together, now? The next class is two hours later from now.

Yasmin : That's good idea. Let's sit at that bench.

Jane : All right, then.

Yasmin : Can you explain how to solve this question?

Jane : This is trapezoid. You may add a new dot as E, then draw line from

C to E. Line CE is parallel to Line DA so both of them are 12 cm. To

find out EB you can subtract AB with DC, so EB is 5.

Yasmin : Then, I can find line CB by using Pythagoras, right?

Jane : That's right. But why don't you find the angle by using tangent of C

angle so you don't have to find line CB.

Yasmin : Oh, I see.

Jane : Remember. The sum of angles in a triangle is 180 degree.

Yasmin : Yeah. In the end, I can find angle B by subtracting 180 with angle E

and C.

Jane : That's right.

Yasmin : You're so clever, Jane. Thank you.

Jane : Any time.

UNIT 2: Task 13

Book 1	Book 2
The language is complicated, so it's a bit	The language is middle level. The explanation
difficult to understand the explanation but	is clear but it provides less examples.
the book provides detail examples.	Price: Rp. 50,000
Price: Rp. 45,000	
Book 3	Book 4
The language is easy but the explanation	The language is middle level, the explanation
and the examples are not detail.	and the examples are detail and clear.
Price: Rp. 42,500	Price: Rp. 47,500

Unit 3: Task 4

There is a student who is doing presentation about a topic in mathematics.

Morning Everyone,

I'm Irina Blacksmith. As students of mathematics Education department, we study some subjects which are related to algebra or even the subjects which belong to subtopics of algebra. Therefore, Today, I'm going to talk about algebra. In my talk, I'll focus on two main issues. First is algebra and the second is the results of my survey in figuring out my classmates' perception about algebra. My talk will be about 15 minutes. If you have questions, please save your questions for the Q&A section.

Let's move to next part. Well, what is algebra? Algebra is a branch of mathematics that uses letters in place of some unknown numbers. What's need to remember that most of the letters used in algebra have two functions. First is as variable in which the value of the letter can change. The second is the letters that stand as constants where the value does not change.

I've read some articles about the history of algebra and I'll tell the result of my reading that at first, algebra is similar to arithmetic in which, as I mentioned before, letters are used to replace numbers. However, as it is developed, algebra extends to non-numerical object such as linear algebra and abstract algebra. Those two branches of algebra are the topics that students usually learn in college.

I'm sure that most of the students here have been familiar with algebra because many of us have studied algebra, unconsciously, since we were in senior high school.

We, right now, are studying linear algebra and later on we are going to study abstract algebra. While studying linear algebra I see phenomena on our classroom that many of students included me find this topic as quite difficult topic. What usually happens when students find a difficult topic is they study it diligently or they feel unmotivated in studying it. What happens to us is 50:50. You can have a look at this chart that fifty percent

of the students study it diligently and practice them again and again. On the other hand, another fifty percent of them tend to avoid the topic. They don't feel motivated on studying it. I gathered some comments from them and they said "another day passed and I didn't use algebra once", "linear algebra is like weightlifting for my brain" and etc. Moreover, I found a note of one of them that "Algebra please stop ask me to find x because she will never come back". That's quite funny note, isn't that?

Friends, well, that brings me to the end of my presentation.

Generally speaking, Algebra is very broad topic in mathematics. It is a branch of mathematics which uses letters to substitute unknown numbers and algebra has some subtopics. And talking about the phenomena in this classroom, many of our friends find linear algebra as difficult subject but there are two patterns of them in facing the topic which are they diligently study the topic and some of them complain a lot in studying the topic.

So, for those who find it difficult in studying linear algebra, I recommend you to join Study Club, because in the study club we share, discuss and solve together our difficulties in learning mathematics. Moreover, it's so much fun to study together.

Thank you very much.