# A Re-Allocation of the Words in the Chicago Spelling List 

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A Re－Allocation of the Words in the Chicago Spelling List． by

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## Preface

The problem of insuring success in any subject in the classroom requires a serious study of the subject itself, as well as its presentation and methods. This is done best by efficiently trained teachers, who are in close contact with the children and who have a wise understanding of children interests, their needs, oapacities, and experiences.

Spelling, like most subjects of the Curriculum has claimed the attention of both teachers and educative for some time past. The failures evinced in daily life, its pursuits and occupations, prompt a keener interest in this as well as other subjects of the Curriculum, in order to determine weaknesses, eradicate same, and insure greater success.

The past decade has been one of research and measurement in the fundamental subjects of the school. Each subject has its adherents for reform. All labor for the best interests of the school and particularly for greater effectiveness and achievement on the part of the child. The interest in Spelling has been aroused by present day demands for efficiency, not only in Spelling but also the allied subjects; Enclish, History, and Geography. At no time in the history of man has there been so keen a rivalry for success. One must not only be right, but be right in his inftil performances. It is then, to keep pace with modern movements in other fields of endeavor and achievement that teachers and those interests in Education are paralleling their efforts in determining the factors that make for success. It is to this end, that the present study was made.

A Re-Allocation of the Words in the Chicaco Spelling List.

## Introduction

We are all more or less acquainted with the research studies made within the fields of spelling and which have been carried throuch by Ayres, Buckincham, Cody, Corman, Rice and Thorndike. Still, one is confident that these same eminent authorities would be the first to recognize certain imperfeotions of their technique in endeavorine as many of them did, to arrive at a correctly selected list of vords for the teaching of spelling at the various grade levels.

The present study does not attempt to suggest methods nor define technique in the teaching of spelling; its specific aim is to present the Chicago Ford Lists in a remarranged form. The procedure necessary for the reallocation of the words on the basis of difficulty is herein given together with the lists as determined by that procedure.

The Chioago Lists as they appear are arranged alphabetically. There is no suecestion or indication of the difficulty of the words. The teacher is free in her choice of word selection for study, The words selected may or may not be adequate in meeting the mental development of the child or functioning economically at the teime they are riven. Choice is a matter of chance. Because of this apparent weakness in the selection of the words for study, and the unsatisfactory results accruine from same, this atudy was undertaken by the principal and teachers of the Tarle School in order to secure oreater and better results in speliing with a less expenditure of time and effort.

The words as listed for each senester grade are in a logical sequential order with the index of difficulty expressed in terms of the number of repetitions necessary for the mastery of the given word. These indices represent approximations of difficulty rather than positive mathematical evaluations. They are fiven to show the relative difficulty of all the words in the piven list for the erade.

Studies in spelling of various kinds, have attempted to meet the spelling needs of children generally. The scientific researehes and investigations carried on by eminent scholars and educators present these facts specifically, as to the choice of words and the number of words best suited for the child to learn as spelling words at the several grade levels. These studies, while invaluable to principals and teachers eenerally, aid in the better teaching of spelling, yet they do not meet the immeaiate needs of certain localities and districts. The problem confronting the teachers in the Chicago Public School System, is not whet words should be taucht, nor the number of words, since these facts are pre-determined and prescribed by the adopted course of study, but how whould the words be shlected and presented to the classes in order thet they attain mastery with the least expenditure of time and enerfy and whioh will make for successful acquisition on the part of the child. It was to meet this specific nced, and assist in the proper choide of the words in the order of their difficulty, that this study was made carefully and whole heartedly. The results of the study are herein given for the use of those teachers warkine in the same field.

Research Studies in Spelling
Ayres, in his study to standardize a spelling scale, made an investigation relative to the most commonly used words in the Ene-
iish Language. In making his study, he was primarily concerned with the words which were most comonly used in daily life. After. a scientific evaluation of the thousands of words assembled, Ayres, selected 1000 words which he found to have been most freauently used. These he listed and has designated it as a scale by which children may be craded in their spelling ability.

The words selected are the result of careful analysis of written material, including personal letters and selected prose. They were olassified on the basis of frequenoy of mis-spelline for each word when tested out in the several elementary prades, as well as the per cent of correct spelline for each mord. The words showing the ereatest per cent of correct spelling were placed at the top of the list in the order of their percentages. The standards thus attained by Ayres are given as words in a dictated sentence to the children without any previous study of the words. The soale is primarily a means to neasure the ability of children to sepll the foundation words of the Enelish Laneunee; and that is preoisely what it does and no more, since it has no relation to the adopted lists of the various school systems.

Buckingham, like Ayres, as given in his Thesis for the Doctorate of Philosophy,* Columbia University, 1913; attempts to derive a scale for the measurement of spelline ability end to show its use and applioation in हiven situationc. It attempts an approach to measure the ability of the individual, and the group, more objectively than Ayres attempted to do. In his study Buckingham attempts to evaluate a standard spelling norm.

Buckingham, in his study of some 5000 words compiled an "Original List" which was used as the basis of his study and experimenta-

[^0]tion in several of the schools in New York City. The study was made in that city for two reasons, namely - Buckingham was working in the system and secondly New York $C_{i}$ ty afforded an excellent opportunity to try out a list of this kind because of its cosmopolitan character. From the 5000 word list the "Orieinal List" consisting of 270 words was eventually selected for the specific study. The words thus chosen were selected on two principles: - 1 . That all the words selected were sufficiently comon in the sneaking vocabulary of third erade children. 2, That the spelline diffioulty of many of them be preat enourh to test the ability of the eighth grade child. In refinine this list to the "Seleoted List" numbering 100 the words were incorporated in sentences and given in four schools of New York.

The words comprising the "Seleoted List" are arranced in a linear projection, so that the easier words appear at one end and designated as the zero point. From this point the words are arranged in a linear progression according to the degree of diffioulty of the words. The zero point, is the place on the soale which indicates the absence of any spelline ability, the pradations of difficulty of the words are indicated by fixed points which determine the individual's ability to spell any word in the soale. The scale is arranced to measure the spellinf gbility of children from the third prade throunh the eiphth erades.

In arriving at this "Selected List" whioh was refined to definite and scientific accuracy, Buokingham made extensive studies of individual and croup ersors, innumerable tables and datapere secured to show the individual ratings and evaluation which affected in no small neasure the efficacy of the scale. One of the outstanding characteristics shown in the distribution of individual ratines is the extreme variability of children in the several
grades and the absence of clearly defined modes, hence the difficulty encountered by Buckincham in determining a workable scale that would bear the seal of scientific approbation. Group variability was conspicuously evicent, showine an overlappine from grade to grade. The date permitted the possibility of locatinf erade medians and this was successfully done and determined. By this means the erade group ability may easily and accurately be determined. In seleoting the vords for the final list, Buckineham, assumed that the normal surface of frequency as shown in the linear scale, represents the distribution of the enelling ability in eaoh grade, and in this way it determines the correct placement of the words in his list.

Unlike Rice and Corman, Buokingham's list or soale is arranged with the idea of gradation of difficulty of the words chosen and placed in that order for erade evaluation. The same cannot be said of Rice's test list. Words were chosen for the Rise List which were not refined to the derree of difficulty which the Budkingham list shows. Fords of equal weight cannot be used indiscriminately through the erades for testine to attain or measure the spelline ability at the several prade levels. And that is whet Rice did, the words chosen did not have the acid test and the refinine exnerimentation in grade placement as his successors used. Of course, Rice was the pioneer in this subject and to him all honor is due for his study in this field. To him we are indebted for fivine to the study of spellinp the importenee which it now claims. Me was the pioneer, in notine the importance of effectual snelline methods and was note worthy in his attempt to measure the effeotiveness of that method and procedure.

The impetus for study of the course of study, particularly, the academic studies mas aroused by Rice shortly after his trip
broad in 1894. Under the influence of the German psycholofy and the economical methas obscrved in use at Jena and Leipsic, Rice was fired with enthusiasn and im, for a reformation in the teaching of the curicular subjecte, perticularly as recerds loss of time and enerey by the child in the acquisition of learning. This conviction led Dr. Rice into the field of educational research in order to determine puides or measurement by which standards of achievenent micht be established. This was Dr. Rice's perticular contribution to education at that time. In this field he was to blaze the trail for the present soientific studics and researches in the field of education which are now coinf on.

At first, Dr. Rice's efforts were denounced as foolish and absurd, wholly indefensible. Fe was the subject of ridicule and attack. TYis claims were criticised and ipnored by most of the educators of the time. They little knew that mas laying the foundation for the present type of scientific investipetion and research which attempts to measure educational products. It wes a report elven by Rice to the Department of Superintendents, assembled in Indianapolis in February 1897, that naved the wey for the movement in seientific measurement in edvoation. The storm of protest and vehement denunciation which characterized thet meeting and led to dissension end dis-agrement cleared the air for comtemplation and thought.

Some time after this meetinc, Professor Fanus of Harvard, made a statement relative to the Rice clains substantiating in a great measure his assumptions. Yanus became a staunch supporter of Rice in his findincs and save whole hearted smport publicly to Rice. This public acknowledgement lent credence to the Rice assertions and the tide of public acclaim rewarded this eminent pioneer. To him was civen the title of the "Inventor of rduca-
tional Measurement.", Professor Menus published the article substantisting the claims of Pice in "The Forum", April 1902, under the title; "Our Chaotic Tducation."

To Pice is due the credit for blazing the trail in educational measurement and the interost in educational research. In this field his contribution to education is incaloulable.

Durin the time Dr. aice was making his inftial efforts in the field of educational masurements, Fdward L. Thorndike, was a student at Columbie University. His interest vas centered in education and no doubt he was takine a personcl interest in the assertions of Rice since Thorndike himself at the time was deeply concerned over the same situation in recard to education, In his work at Columbia with Professor Boas, Thorndike was enmeshed in educational data and statistical methods and findine his job not an easy one. But the difficulty did not deter the youthfiul student from relinquishine his job not seet the laurels of lesser value. The fire and enthusiasn of his predecessors was the sppr Which led Thorndike on to mpeater efforts and hicher achievement as now attested by his many substantial and worthy contributions to eduction in reneral.

Thorndikets specific interest seems to lie in educetional measurements in the verious curricular subjocts. He prediontes his philosonhy in his meneral morks on Psychology. Tis educational measurements have been in neny fielde, particularly, spelling and mathematics. In defining his premises for educational measurement Thorndike predicates the facts in this way; - "Whatever exists et all, exists in some amount. To know it thoroughly involves knowing its quantity as well as its quality".* From this assumption

* The Nature, Purpose and General Methods of Measurine Rduc. Products". (Monograph)
he proceded to expound his thesis of objective measurement in terms of educational products. Thorndike explains, that the purpose of educational measurement in terms of objective products is to provide some one vith the knowledge le needs in terms of a difference or a relation. That someboay may be the teecher, the scientific investicator or the supervisor as to the value which these measurements assure and define thore can be no doubt, since they have so naterially anfected beaching methods.

One of Thorndike's ereatest oontributions to the study of eaucation is the compilation of his Meachers Tord Book". The book contains sone 10,000 words used or read by persons in the various avocations of life. The sources of the words are many, and extend over a wide range. Childrenst Literature contribute the largest share of the words selected.

The words are listed alphabetically and indexed vith a credtt number which indicates the range and freouency of use. As thorndike states the list is not a perfect measure of the importrace of the words, since the iraportance is relative in terms of the porson using the word and the use he hodes of it. quotinf Thorndike, in reference to the seleation or the words, he says; - first, "A word may be very important for a pupil or a eraduate to know and yet not figure largely in the world's reading, secondly, a complete list would be an inexhaustible study subjeot to frequent chances."* The purpose of the "Hord Book" as it functions in its use With the teaching body is in indicatine the relative difficulty of the words and assisting one in nakince a ready choice in the use of the word with children. In arrivine at the list as given in the Word Book". Thorndike labored some ten years in the assembling * Introduction to Whe Teachers word Book".
of the material from forty-one different sources. The list is not a spelline list althoueh many persons desimnete it as such. It is a word list showinp derinitely the relative importance of woris in one's vocabulary. The imortance of many of the words for spelline does not diverge greatly and may serve at times for a spelling list, but that was not its orifinel function nor purpoee. It does not indicate svellinc dificulty, but rather exemplifies the funce and frequency of pord use.

A11 of these studies in the general field of spelline and word study have awakened in interest in spelline and broupht about inestiable results. They prove to those interested in education the inadequacy and ineffectual spelline which have been in use throughout the country, as well as the need for revised texts and modern methods in the teachine of spelline.

The initial work of Rice was the rirst attempt at messurine education objectively. To hin preat oredit is due for the inpetus and enthusiasm given this particular phase of oducational reserch.

The dyres Soale was an outgrowth of the Rice investigations; its reliability is unquestioned. It purparts to do one thine, and that it does effeotively; namely to masure childrens' spellins ability in reference to the basic wordsof the Enclish Lancuare. Wile its use is not so universal as formerly, still it is unique in being the first measuring rod as anplied to spelline arility.

Buckincham, like hyres was interested in devisine a seale and in cstablishing a stendard norm in spelline for the children in the Elementary Schools. Fie went one step further than Ayres in his research, by not only determining the standard rrads norms, but evaluating word difficulty and sufgestine grade placement.

Thorndike, became the innovator in this field and digressed from the path of his educational forebears by lending his efforts to
the study of - their frequency of use, and rance. His studies parallel the of his predecessors but substantiate, in to, their investications andindings. His contributions in this field lends veight to the work previously done, while they give rise to a newer approach to word study.

A New Interest in the Subject of Spelling.
These studies, particularly those of Ayres and Buckinoham have aroused the teachers generally with new interest toward the adequacy of work spelling tests. Bany reforms are ureent in the revision of the texts and standardization of same for looal needs. The teachers have expressed themselves of their inability to attempt reforms, since they infrequently participate in making. Wany of them feel that the failure in this subject is due not so much to ineffectual methods, or inability of the child to learn as to the use of antiquoted texts. In these texts are words of mature connotation and use, which have little or no sienificance in the tocabulary of the child. placement of words and of word allotment for the grades mark these texts so unsuited for study and unattainable in results.

Spelline, of all the fundamental subjects, in the course of study is in need of the most radical chance since the lists were wholly inadequate to meet the needs of the child, the school and the job. No wonder, that the charce was frequently made, that our country was beine flooded with nupils, both from the Elementary and Hish school who were decidedly deficient in the ability to spell properly. Teachers felt the charge was fustifiable, but were unable to cope with the problem or remedy same, since they had little voice and partake so infrequently in Curriculum-新king.

In the summer of 1929, Mr. James $\%$. Barrett, city editor of the New York World, was invited to eive a course in Journalism to
the students of the University of Colorado, (his Alma Mater). During his stay in Boulder, Mr. Barrett was interviewed frequently on many topics of interests. When asked about the training neeesaary for successful work in Journalism, his reply was such as to make one realize how serious the problem of cood spelling has become in national life and its pursuits.
"The thing that impressed me most durine my experience as
a teacher of Journalism was the realization that we are
permitting men and women to mo into Journalism, a hichly
specialized field, without a proper foundation. The plain
and simple fact is that a ereat many of them can neither
spell, write or read a newsnaner intellipentiy. Instead
of takine course in feature and editorial writine, they
should toke hich and pramar school trolish. Some teach-
ers in the Enalish Department at the University of Colorado
told me that bad spelinn had becone such an acute problem
that it has been necessary to reduce the required minimum
for a student from 5,000 to 2,000 vords. ${ }^{* *}$

These facts, probably serve to substantiate in part, at least, the statement made by Tallin in his Cleveland Survey; namely, that 7.28* of the pupils' time thile fiven to the study was failine in bringing about comensurate results. This statement was made relative to the ten leading oities of the United States. No doubt, this condition mes the result, on the pert of the compilers, of improper selection and eradation of the words in the list, thus producine a lack of uniformity between the several texts and resulting in failure to establish norms and standards. This alarming failure and unprenaredness of students in active life was the means of preaipitatine inquiry and investigetion in the several curricular subjects in order to determine the cause and extent of the fallures. Texts were studied and examined throughly to note thefiscrepancies and laok of uniformities. As a consequence, surveys of a more extensive nature pere made in order to arrive at
some common understandine of the essentials of cood spelline and determine standard achievements. Trom these studies, aueries of many kinds arose, such as the followine; "What words should the pupil learn at the various arade levels of mental erowth? what means has the educator at hand in determining this choice when setting up norms and standard for those levels of mental growth?" Basis of word Selection
fundamentally, the teaching of spelling involves two major objectives; first, the selection of the words on the basis of their imediate use, understanding and permanency for the child; second the training of pupils in effectual habits for learning new words by the employment of sane pedacogical methods. The first consideration, that of selectine and grading words in accordence with the mental maturity of the child is of vital concern not only to the makers of the curriculum but to the instructor as well; while the second consideration, in terms of the child, has to do with his trainine in the acquisition and use of his vocabulary which is paramount. Obviously, there is a difference between the colloquial vocabulary of one section of the country with thet or another; between the vocabulary of the child and the adult; and between the vocabularies of the several individuals of the group.

The list of words comon to most children is at the present time a variable quantity, but there is hope that at some future time it will become sufficiently constent to serve as the norm or stendardsfor individuals of the same grade group. The possibility or arriving at a basic vocabulary for spelling is quite as reasonable as the possibility of determinine a readine vocatulary.

In a cienk-up made recently between two standard texts it was found that less than ten words per grade were common to both
lists. In a cheok- of some ten standard texts, the same lack of correlation prevailed, but not in so marked a decree. Surely, this evidence convinces one that the lack of uniformity in the selection and gradation of words for the same grade-group may be one of the deterrent factors which has effeoted the results of good spelling so materially. This marked variation of choice in the selection of words in the several texts evince the choice of the two schools represented by ourriculum makers; those who advocate the adoption of subject matter for the curriculum from the activities of the adult, and known as the socioloeical school; and those persons adrocating choice of subject matter based on childrens' experiences, thought, life, and activities. This latter group make up the psychological school. The adherents of the former school adrocate the selection of the word list from the vocabulary of the adult; while on the other hand the disciples of the psychological school select the spelling list from the oral and written themes of children. Fortunately, there lies the middie road for the conservative.

Educators and teachers representing the sociological school, maintain that children true to instint imitate their elders in a more marked degree than they do their companions; and that they readily accept and incorporate the vocabulary of the adult into their orn easily and unconsciously. As to the validity of this belief there is some doubt; since other influences tend to modify the choice; such as association with other members of the same grade group, and reading in and out of school. The latter activity plays a very significent part in enlarging and determining the child's vocabulary, as it does the adult.

As to advantages of either choice, the adult or the childtheme vocabulary, much has been seid for and apainst the two selec-
tions. Opponents of the adult selection argue thet vords chosen from this source are in advance of the erowth of the child and lie beyond his intelleotual grasp and understanding. Those who defend the adult selection accuse their opponents in the child-theme selection of accepting vords for their spelling list which are so simple that they lack the necessary challenfe and stimulus for growth. Recent investieations, however, reveal the fact that a compromise may be effected between both tests because of the fact that many of the words used by children are duplicated by adults, especially the foreipn born adult. In the develonment of the child there is rarely need for the teacher to anticipate the teachine of adult usage, since the child is encrossed in his daily individual needs and obligation. "Sufficientfor the day is the evil thereof."* Many of the children reared in homes of greater intellectual advantages are fortunate in their inheritanae and environment and use a vocabulary quite in keeping with the adult usage. This variation in the use of words between the two grouns of children necessitates a provision for the variation. Such a provision may thus take place in the unitary division of each specific grade list by arranging said list into minimum, maximun, and supplementary norms of achievement. This recognition of individual differences necessitates provision for individual growth and attainment, if all the children of the group are to be served equally. In the daily activities and duties which the teacher assumes, there is present in her mind the roal of proficiency end mastery Which she is constantly settine up for pupil attainment. With this ideal us a guide, her labors are directed in providine the neoessary

[^1]experiences for the child thet he may arrive in due time to adult concepts and behavior; but it is most unwise and unpedicogical to impose adult thoueht and behavior upon the child too early lest such procedure end disasterously. The sane and more profitable way is to permit the child to procress in a natural development and arrive at maturity in his own rood time. Vocabulary study for the child must grow in both the oral and written work as the daily situation and demands arise. Why impose the artificial when the natural inheritance and development is so casy and attaindele? Does not the imposition of any adult fom of learnine and behavior deprive the youth of his inherent right of choice, originality and oreativeness?

In the subsequent notations relative to present day investigations on the adult and child-theme phase of spelline, one's attention is dreoted to the selection of the words, their pradation, placement and numericel assimments.

Mr. Nicholas Eauer, Superintendent of Schools at New Orleanc, made a survey regardine the spelline as used in his city and examined compositions and themes of the school children of Now orleans. His examinations of some 2,500,000 running words reveal the fact that these children used 19,000 different words. This is somewhat startling in view of the fact that hr. Franklin 7. Jones, former head of the Department of Eduastion (University of South Dakota, 1911-1919) in making a similar study of ohild-there vocabularies found that in 75,000 themes examined and containine about $15,000,000$ running words that only 4,500 diffenent words were used.

Mr. Millard F. Tidyman, in a published report or his survey or the "Writing Vocabularies of Public School Children in Connectiout," has much the same report as Bauer. In this report he states that in the compositions of the children from erade three to nine
inolusive, 3,850 different words apseared out of some 538,500 running words.

In the various articles oontributed to the "Elementary Sohool Journal," October-December, 1925, Mr. Frederiok 3. Breed, Associate Professor of Education (University of Chicaco) substantiates the facts as found by Bauer and Tidyman; in that the range of vords found in childrens' themes, approximates about 4,000 different words. To be specific the rance is between 3,000 and 5,000 words. From these studies, one may feel assured of the fact thet this rance is quite correct and can easily serve as a basis for the selection of word lists for most places. A workine list may be formulated, encompassing the rance, 3,000 to 5,000 by dividing the entire range into three sections suggested, namely minimum, maximum and supplementary groups. In this way the minimum assienment of 3,000 words could be easily mastered by the slower croups and the 5,000 words by the acoelerated. The minimum assignment of words chosen for mastery fortunately of ten duplicates the vocabulary of the adult since many of the foreifn-born parents use a vocabulary quite as simple as the child. Because of this the mords ohosen may thus serve the needs of the child at the present time and the adult as well, (with other words added as the needs of the child become evident.) Our national population is a racial amalgamation, and the language of the foreign-born adult, of whom there are many, is as simple in form and use as the child's. This identity of the vom cabularies of parent and child, viewed in this way may predicate a list of basic words common to all. Hence the need for a flexible list as well as a simple one, so that pupil advancement may be secured according to individual maturity.

Dr. Ernest Horn, in his several vocabulary studies, adqueates the teaching of words which are most comonly used by adults and
are of permanent value. A Comparison is made by him between "The 1003 Words Most Frequently Used by the Kindergarten Children" (Childhood Education, November, 1926) and the 5,000 commonest words of adult writers, as determined in the Commonwealth Investigation. He cites the fact, that out of 500 most commonly used by the children in the kindergerten, only ten were not found amone the commonest 5,000 used by adults. Horn contends, that the words most commonly used by adults should be the basis and choice for the vocabulary studies of children, since most of the words of children are acquired throum imitation of the adult, and are nemessarily of permenent walue and use.

The Commonmealth List, which is based primarily on the adult usage vocabulary was compiled from sources such as the following; Letters of Appreciation, Highly Personal Correspondence, Business Correspondence, Excuses of Parents to Teachers, and Letters of a Single Individual. In all the number of words studied were over 5,000,000.

Other educators have made similar studies as Horn in recard to adult vocabularies, in order to determine words of greatest value and usage for apelling lists. Mr. W. N. Andersen, in the "Determination of a Spelling Vocabulary Based upon Correspondence" (Iowa Studies in Education, University of Iowa, 1921), reports a list of some 9,223 different words in a possible 361,184. Most of the studies of this type advocate the adoption of words most commonly used by adults as a basic spelling list, groded of course in a sequence of difficulty, and corresponding to the growth and mental maturity of the child.

Factors Involved in the Study of Speling
The task of seleoting words for a spelling list is not an easy one. Variance of opinion in the ohoioe of words, have made the
lists unreliable. This fact has been broucht to light by the several scientipic investigations made relative to the subject. The urce for accuracy and some sort of workable profram is manifest in the several cenuine studies of ohildrens* needs and capaoities in order to formulate a grade list which insures success and proficiency. Such lists are possible, if compiled as suggested, from reliable data and research lists which conform to the varying ability of the several individuals not only in the several grades, but for the individuals of the same grade-croup. A list that may serve all, the slow, the average, and the accelerated child.

When lists are made up in the trimivisional units, it then devolves upon the partioular school to adapt the spelling list in terms of its needs. By so doing it will serve the group and individual most effectively. Mrovision of word selection in the choice of mastery seoures for the child a learning mastery conformable to his powers and gives him a readiness to express hinself easily and accurately in his written themes with areater facility. The ability to master and spell correctly even the simple words give one an assurance of success. And after all, the real value of spelling is its manifestation in the efficient response of the individual in all the written mork.

Te know, that the word and its snelling must always be a subservient factor to the expression of the thought itself, that its essential value is in the correotness of word form and use. However, that function does not minimize its importance nor detract from its value. Hence the argument for a simple vocabulary mastered to the degree of automatization.

The child can easily be taught to discriminate in the choiae of an easy rocabulary in order that the mind may be free for the
concentration or effort in the expression of the thourht. In this way the ease and mastery which the individual will exhibit will reveal itself in the strength and facility of the thought. With ease of expression there comes a desire on the part of most individuals to increase their vocabulary and so express their thoughts in a better and more forceful way. Such a practice makes the individual sel-critical and leads to greater independence. Surely this is greatly to be desired;-self-education, in this as well as the other subjects.

The words which are prescribed in the spelline list for the grades can and never will be exhaustive for any specific level, because of the existence of individual differences and capacities. Hence the supested arrancement of the arade list into the three fold arrangement; minimum, maximum, and suplementary units. The latter unit, supplementary, may be compiled from the more difficult words of the grade or those which the individual may need in his own partioular status. It is immaterial how they are chosen as the activities detemine choice. After all, this is the major objective in the written English work; that the individual seek the best way to express truth and beauty when deseribing his feelinge and emotions. It is to this end that spelline as a subject Justifies the time and labor expended on it.

Snecifically, the chief aim in the teaching of spelling is to habitutate the chlld in correct performances. Such performances preraise growth and mastery. To accomplish this end, the child may be assisted in the development of his ability by provision of work conformably to his power, so that throuph the cradation and sequence of subject matter he may srow to his full mental stature step by step. At first it may be effected throuph the mastery of the minimum assienment, but when this unit is mastered and the
habit for correot correlation is ascured, then the individual is on the way to increased effort and ereater achievement.

And how can this condition be broueht abovt unless through daily practice and perfect performances? We know that learning is economically effected by providine correct perceptions, or in other words, conditioning the individual to profitable reactions. This provision for conditioning the individual in effective work premises high achievement. Spelline, when taucht with these objectives in mind, namely; to provide experiences for the child in the subject taught at a level which conforms to the level of his intellectual growth, cannot fail in producine the desired results, not only in the subject of spelling, but in Enclish, History and Georraphy as well. The child evolves throuch a series of correct practices to a level comparable to his power, besides these conpensations there is a correspond ine conservation of the child's efforts as well as a savine in time and teaching.

Snelline, like its kindred and related subfects, Enelish, ete.. is essentially a social tool, and the master of the tool acclaims the worknan. This is evinced daily in the demands upon one in his business and social oblirations. At all times there is a need for acouracy that a violation or weakness in one's reactions is looked upon as an evidence of fallure.

The study of spelline affords a wide field, not only for the consideration of correctness of word form, but permits the study and choice in the use of mords for the expression and definition of a detail with the minutest shade of meaning or connotation. Such a study to the linguist is always attractive and has a fascination for most people: "中lew word, which expresses the worthy conception or more fully expresses an old one, adds not only to human knowledge, but to human progress and hatpiness as well, and
its beneficial service will continue down through the centuries. The person, who adds suoh a new word to his vocabulary adds to his thourht, to his power, to his enfoyment, and to his happiness."* Present day psycholorists advance the theory that verbalization is indicative of one's mental status and develonment. That one rons throuph the exnression of one's thoncht. That the practice in verbalization affords the opportunity for a keenness and finesse of thoucht. While this theory is not well defined among educators as yet, there is a commendable feeling for the theory to date. In these days of educational progress, we hear and learn much of the "conditioning" of children, or providine profitable experiences for the child which will give zest to his learning and challence his maturity in order to stimulate his curiosity and oreativeness.

School life is the neriod of habit formation. Habits of success and achievement eventuate power. For this reason, correct pert formances must not be overlooked nor minimized. since its importance is so fundarentally stressed in the psycholosy of learning and the demands of daily life. In the stress and strain of daily livine, there is need constantly for proficient service, even in one's inftial nerformances. And how oan this be effected unless throurh habitunl practice and nerfect oo-ordination of one's mental and motor powers. Learnine, as stated above can be done economically and effectively if at first correct percentions and conditioning of the child for a series of experiences are provided. Spelling may well provide those experiences of correct practice if words are given for learning that are simple enough for assimilative use.

[^2]Right attitude and right reelines are thus engenderedand encouraced fron the start. The child feels his power and learns alone the lines of his capacity without fear or fallure. The feeling of success is a mighty incentive. It is the lever of all propitable and inspiring undertakings. The child, partioularly needs to reel its invigoration.

In the several phases studeed in conneotion with spelling. one must not ever block the several steps in the development of the subject of which the teacher must be fully cognizant. These steps are considerations of what vords are to be taucht to the croun; in what order the presentation may be best made; and what stondard may one expect of the from studying the spelling as assipned.

With these things in mind, and the possibility to make the necessary adfustment to the more nodern methods of presentation, an investigation was undertaken for said purposes. The main consideration in the investigation was that of re-arrangement of the Chicago Mord List, the one prescribed for use by the Board of Fducation in Chicago, The obligetion incumbent on all teachers in the Ohirago School System to use the text is binding; whily the selection of the words and the order of their presentation is left wholy to the choice and discretion of the individual teacher. This aethod on many ocoasions proved in-accurate and unreliable, as well as unscientiric. The results in examinetions and tests prove the unreliability of hephazard choice. Many words which apporently looked simple were the very ones which rave evidenoe of the meatest solline difficulty. The whole problem for this investiontion resolved itself into one of gradation and re-arranfement and possible replacement. The study of the problem mas preCipitated by the results in the spelling lessons and yoers of
attempting to master spellino difficulties. It was for the best interests of the child and the sohool that the investication mes finally made for the re-allocetion of the Chicago lists.

Texe mere many serious difficultios confrontine the investicator relative to the way such an undertakine could le effectively accomolished. To make it worth while the investication nust bo of vel ue to those concerned in the teachine of the spelling in Chisego, it must be undertaken as scientifically as possible, and the results given honestly for a tryout in other localities of the same system. The work was undertaken and the material, as armaned in the appendin, aublted to various schools dis-similar in racial inheritance and training from the one where the experiment originated. The results are now pending. One of the greatest problems in the undertaking was the reliability of crading. From the statistics gathered in our own field there is evidence thet they will be substantiated quite uniformy in other fields and boar a close correlation to our findines. "There, is, as yet no ponoral agreement amone exnerts as to the precise prinoiplos to be employed in arading material. It is difficult today to find a single scientific study for this problem. Wore progress, however, has been made in the fleld of spelling than in any other anbjeot. It seems clear that the underlying principle in the allocation of words to the several crades is psychological, Which meens that the primary consideration is this: after the mords are selected they should be placed where they can be roost economically learned. Ulimate ease of mastery is the detemining factor."*

## Statement of the Problem

The atterapt of this investication was not to predicate a new list of spelling for the chilaren of the Chicago Public Schools, but wather to accept the present list as prescribed by the Board of Panoction, and subject it to a process of experimentation in order to determine in a simple way the degree of difficulty of each rord in the fiven orade list. The testing is made for the purpose of re-arrangiar the words in the order of difficulty into unita of ninimum, maximum, end supplementary achieverents.

The present Chicaco Mord List consists of about 2,300 mords. It mas compiled by a Comittee of Principals working under the diroction of an English Comittee some few years ago in Chicago. Both comittees were nadine investigations and surveys relative to the English mork in the Chicago Public Schools.

The lists in its present form was compiled by a process of sclection and elimination in the study of so me 15,000 selected words used in standard texts. To quote from the preface of the Chioaro Text, --
"The 犆st conteins the most connonly used words in the language, the greatest number of words will befound in the lover grades. In placing the words in the grades, the difficulty of the words has been disre "arded and the words have been placed where a majority of the children have been found to need them."

As stated, no reagnition was made relative to the difficulty of the mords as listed nor the presentation of same. The lists were rimarily selected and arranced on the basis of use only, with little thowht riven to the difficulty. The lists as found in the text make use of the alphabetized form. In this form there is littie to puide on in the selection of easy words except as one sclects them on the basis of chance. Such a method or procedure is both unscientific and unreliable.

The text in its present forn is not arreeably accepted. Teachers in Chicago have felt that it is not adeauately meeting the needs of their respeotive eroups. There is 2 feeline of dissatisirction as to the choice of words, the apportionment of the moras to the several crades and lastly, to the eeneral alphabetized fora.

To city one outsthnaing featare relative to the effectiveness of the lists. It is found thet some of the most comnonly misspelled words in the Enclish Lancuace are presoribed for children of the second. third, and fourth erades, or in other words for the $s i x$, scven, and eicht $y$ olds; 92 of the somealled "Jones Demons" are found in these prades. In the same list of words are found vords which require little or no study. The ranee of difficulty is quite noticeable. Kowever, these are rot indicated in ony way.

Thicse phases of the spelline problem have claimed attention awong tho teaching force in Chicaro for sometime, and necessarily need solution. Our attention, then is centered on these problems, but most essentially on the difficulty of the words as found in the lists as well as the loose arrangement of same.

The coaditions under which this expefinent was undertaken are these; the sohool is located in a district where the children are of avorage mentality. The mernership in each rrade is approximately forty-six pupils per room. The teachers conducting the experiment are of excellent or superior ratine and pedapopically fit to undertake this project effectively.

In order to carry on the exveriment ccientifically the project vas discuscea rrecly in faculty moctines and plans formulated for its success. The procedure which follows was arreed upon before
the work was undertaken.

1. The total word lists in prades one, two, three, four, five, and six, were studied in its present arrangement, the alphabetized.
2. The list for each grade wes divided into two parts, the first half was studied by the beginning eroup of the specifio rrade, and the remainine half by the advanced croup.
3. The method was left wholly to the discretion of the individual teacher, with this exception, that a preliminary test was given each time before a new unit of study was undertaken.
4. At the close of the semester, the data was assembled.
5. The words of each grade were listed according to the degree of difficulty of each word, together with the number of repetitions necessary for its mastery, as noted in the eppendix. Each semester erade list was arranged in the sequence of difficulty, as a mide for use.
6. Grade 1 A gave the units durino the entire semester.
7. Grades 2, $2,4,5,6$, pave ten words ner week during the first half of the semester, fifteen words during the second half of the semester.
8. The weekly and monthly tests of the units were studied; the results recorded.

Record Sneets:
At the outset record sheets such as the following were supplied the teachers. The data recorded was conformable to the speciric directions. Below is a record sheet for two successive Wecks in a $4 B$ grade.

## Record of Progress

Room 205 Membership46

Word List Repeeters

| Pre-test 2 |  | L | E |  | $\underline{L}$ | L | E | $\pm$ | [ ${ }^{\text {* }}$ |  | base |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| base | 0 | - | 0 | - | 0 | - | 0 | - | 1 |  |  |
| battle | 1 | 1 | 1 | 2 | 0 | - | 0 | - | 0 | 0 |  |
| beads | 1 | 1 | 1 | 2 | 0 | - | 1 | 3 | 2 | 2 | beads |
| beans | 3 | 1 | 0 | - | 0 | - | 0 | - | 0 |  |  |
| beat | 2 | 1 | 0 | - | 1 | 2 | 0 | - | 0 | 0 |  |
| beauty | 15 | 1 | 1 | 2 | 0 | - | 1 | 3 | 0 | 0 |  |
| bee | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - |  |
| beginuine | 10 | 1 | 3 | 2 | 2 | 3 | 3 | 4 | 0 | - |  |
| behave | 0 | - | 0 | - | 1 | 1 | 0 | - | 0 | 0 |  |
| becr | 6 | 1 | 2 | 2 | 1 | 3 | 0 | - | 0 | - |  |
|  | 36 |  | 8 |  | 5 |  | 5 |  | 3 | 3 |  |

[^3]
## Record of Progress

Word List Popeaters

| Pre-test | L | L | E | $L$ | E | $L$ | E | I | E |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| base | 0 | - | 0 | - | 0 | - | 1 | 1 | 0 |  |
| beads | 0 | - | 1 | 1 | 0 | - | 0 | - | 0 |  |
| blina | 3 | 1 | 0 | - | 0 | - | c | - | 0 |  |
| bold | 6 | 1 | 0 | - | 0 | - | 0 | - | 0 |  |
| broken | 3 | 1 | 1 | 2 | 1 | 5 | 1 | 4 | $\theta$ |  |
| brush | 5 | 1 | 3 | 2 | 1 | 3 | 0 | - | 0 |  |
| bushel | 8 | 1 | 3 | 2 | 4 | 3 | 1 | 4 | 0 |  |
| button | 11 | 1 | 3 | 2 | 4 | 3 | 1 | 4 | 1 | button |
| cabuage | 15 | 1 | 0 | - | 0 | - | 0 | - | 0 |  |
| camp | 5 | 1 | 0 | - | 0 | - | 0 | - | 0 |  |
|  | 56 |  | 21 |  | 6 |  | 7 |  | 1 |  |

1. As shown above, each teacher kept weekly record sheets for the grade.
2. The pre-test was followed by four successive days of teaching and testing, as designated by the letter "L" which means "lesson".
3. The number of errors was noted daily.
4. These tabulations of errors helped the teacher to plan the necessary drill and remedial work.
5. The advantace of the pre-test in the presentation of the weekly unit (ten words) revealed the number of eprors made by the class; and the need for conoerted effort on the part of the teacher and the individual pupils to eradicate same.
6. The four recitations or lessons which followed aimed speoifically at these defiaiencies; and to attain mastery and $100 \%$
achievement on the part of the child and the class.
7. At the close of the semester each teacher arranged the words for her semester grade on the basis of diffioulty. Notation of words are noted in the graphs as to those words falling into minimun group (ranging from 1-5 repetitions), the maximum eroup (5-10 repetitions) and the supplementary group of 10 or more repetitions.
8. The lists which appear in the appendix are the results of this experiment. The degree of difficulty appears as an index of their learning acquisition.
9. The investigation has some educational value it is hoped in that the means for acquiring the information was done honestly and rairly; the project was carried throuch with discrimination and care; and may serve a sufrested plan for constructed reform.

Twelve teachers conducted the experiment since each prade was reoresented by two teachers, the bepinning and advanced group of the made.

Conditions under which the teachers conducted the experiment necossitated specific directions, in order to unify the elements Which affected the success of the investication. The directions are as follows:

Procedure:

1. Ifist the unit of study on the record shoet at the berinning of ach week.
2. The time unit for eash specific unit is five days.
3. Fiftecn mimtes per day is the time allotment for the mork in spelline.
4. In case of two reades, allom ten minutes deily for each class.
5. Keep the records of each class separately.
6. The first presentation of the unit is a pre-test given on the first day of the week. This is followed by the formal teaching of the unit.
7. Continue the study of the individual word until $100 \%$ is attained $b$ all.
8. When repeaters (words) are carried into the next unit, do not inelude them in the pre-test for the meek. Present new pords only.
Q. In case of a chronic mis-speller, whose I. Q. rates him as a special case, count him out at the end of three weeks. The lists are for average children.
9. In grade $1 B$ study the unit during the last ten weeks of the semester.
10. In order to enliven and vivify spelline as a school subject there is need for a nord Book instead of a Nord List rext Book. 2. That the Word Book incorporate the stuay of words, their meaning. connotation, use, and spelling.
11. That methods of study be sugcested in the texts, but choice of nethod left whooly to the teacher.
12. What the number of words per grade be increased by the addition of simple words, and that the greatest number of words ascend in the order of erades.
13. froper placement of words, where they can most easily and econonically be learned.
14. That the list for each grade be arranged according to the degree of difficulty: into units of minimum, maximum, and supplementary units of achievement.
15. What the so-called "Jones Demons" be pleced for study in the grades where they are ast rrequently used and easily assimilated.
16. What the first Grade be exempt fron fommi writinc of spelling as such; but taught as incidental and when required in the written story work.
17. What the meximum and suplementary units be made $u_{p}$ of the dificult vords of the erade and ords wich the group or the individual nay use for his written work.
18. That the entire lists be increased for the eicht grades, approximating some 4,000 words for these grades.

Number of "Jonea Demons" per Grade
Poroentege of Crade List.


Number of nords per Grade as Iisted. Frodes 1-2. Minimun-Laximum-Supplenentary Units


Grade I


GradeII

Linimum "aximun Suple- Tininum axiaum Supplementary mentary

Humber of vords por Grace as histod. Grades 3-4 Sinimum - Naximum - Supplementary Units


Number of ords per Grade as Listed. Crades 5-6
Minimun - Maximan - Suplerentasy Units


Minimun Saximum Suplenentary Sinimum Zeximum Supplenentery

| I -m-n-m- 1 | can --m 3 | she $-\cdots, 4$ | big ----4 |
| :---: | :---: | :---: | :---: |
| to -------1 | do --me 3 | red ---- 4 | 800d ---4 |
| me ---m---1 | $80-\cdots-3$ | out ----4 | bira --u 4 |
| see ------1 | he --m-3 | no -----4 | boy ----4 |
| $\operatorname{man}------1$ | come --- 3 | not --- 4 | by ----- 4 |
| so ---m-m- 1 | dog -m-3 | was ----4 | her ---- 4 |
| run ----- 1 | hen --m-3 | 60y ---- 4 | did --- 4 |
| we ------1 | sun -m-3 | of -----4 | d.011 ---4 |
| in ------2 | $\operatorname{ran}-\cdots-3$ | one ---- 4 | hin ---- 4 |
| $1 t-m-m-2$ | men ---3 | home --- 4 | for --m- 4 |
| will --m- 2 | may ---- | am --m- 4 | fun ----4 |
| $15--\infty-\infty$ | you -m-3 | a.11---4 | get ----4 |
| old ----2 | play --- 3 | an -m---4 | girl ---4 |
| yes -m-m-2 | 100k -- 3 | and ---m 4 | has --w- 4 |
| on ---m-2 2 | my -m-- 4 | are ----4 | give ---4 |
| up ---m-2 | us --m- 4 | at -m-m-4 | had ---- 4 |
| 1ittle --- 2 | the ---4 4 | be ------4 | his --- 5 |
| a ---m---2 | let ---- 4 | bed ---- 4 | baby ---9 |
| cet ---u-- 2 | this -- 4 | hat ---- 4 | ball --- 9 |
| day -m---2 |  |  | have --- 9 |


| wet ---m-- 0 | Mias ----- 1 | $\begin{aligned} & \text { est-m-- } 2 \\ & \text { dust--- } 2 \end{aligned}$ | $\begin{aligned} & \text { yard ----- } 2 \\ & \text { why }-----2 \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| top ------* 0 | making --- 1 | ear ---m-2 | when ----- 2 |
| today --m-0 | poor -me- - 1 | 0g8 -----2 | were ---m-2 |
| that --mo | age --m-- 1 | fall ---- 2 | water ----2 |
| yet -m-m-1 | as --m---1 | far --m- 2 | Well ---2 |
| year --m-- 1 | ate ---m-1 | fast --- 2 | walk ----2 |
| wrote --m-1 | cake --m- 1 | fina --m 2 | wegon -4-2 |
| writing ---1 | cap --w---1 | $\cot -\mathrm{m-m} 2$ | under --m-2 |
| write ----- 1 | car -----1 | hide --m-2 | two ----- 2 |
| west --m-- 1 | deep ----1 | hill --- 2 | +111 ----2 |
| Well --m 1 | fed ----m 1 | hit --m- 2 | three ----2 |
| Week -----1 | feed ----- 1 | hold ---* 2 | $\operatorname{thing}---2$ |
| way --------1 | feet ----- 7 | hot $\%---2$ | ten ------2 |
| told --m- 1 | Pill ----1 | 1ce ----2 | teeth ----2 |
| tell ------1 | fat ------ 1 | 1f------2 | tane ---- 2 |
| stroet ---m-1 | hop ---m- 1 | $111---2$ | tall ---m-2 |
| sold -m-m-1 | kiss ---- 1 | into ---- 2 | swing --- 2 |
| sky --m-w--1 | $a \frac{1+}{x}=--2$ | kill ---- 2 | stove ----2 |
| rose -m----1 | arm --m 2 | kind -m- 2 | star --m- 2 |
| pen -m---m-1 | coat --- 2 | king ---- 2 | spring --- 2 |
| roll --me- 1 | cold ----2 | six -m- 2 | soon ---m-2 |
| or -m-m-m-1 | cow ---m- 2 | smoke -- 2 | soft --m- 2 |
| oh ----m---1 | cry -m---2 | sit ----2 2 | soap ----2 |
| noon -m-m-1 | dry -----2 | yellow -- 2 | sleep ---- 2 |


| sister --- 2 | open -----2 | found ---- 3 | apell ---3 |
| :---: | :---: | :---: | :---: |
| $\sin _{5}-\cdots-{ }^{-2}$ | now ------2 | Pree ---- 3 | sone $-\cdots-3$ |
| chop----2 | moon -----2 | green --m 3 | sung ---- 3 |
| ahoe ----- 2 | milk ----2 | gun ---m-3 | small ----3 |
| achool ---2 | 11ps -----2 | horse ---- 3 | sell ----- 3 |
| sey ---m-2 | add ---m--3 | how ------3 | sced --m-3 |
| rue -m-m-2 | alike ---m 3 | its ----- 3 | soup -----3 |
| rооч ----2 | ask -m---3 | \%ey -----3 | snow -----3 |
| ring -----2 | asleep -- 3 | your ---m 3 | pull -m-- 3 |
| ride --m-2 | bad --m-m 3 | wore ----3 | plant ---m 3 |
| real -m- 2 | call ----3 | word --m--3 | pencil -- 3 |
| read --m- 2 | cart ----3 | with ---m- 3 | pay -----3 |
| pot ----2 | coinb -----3 | window --- 3 | party ----3 |
| pony --m-2 | cup ----3 | vind ---m 3 | paper ---3 |
| pond ---m 2 | cat -----3 | Who ------ 3 | over -----3 |
| pole --m-2 | die ---m-3 | tin ----- 3 | other ----3 |
| $\operatorname{pink}---2$ | door ----3 | time ---- 3 | only ----3 |
| pin ------2 | ever --m- 3 | these ----3 | once ---m- 3 |
| ple-m--2 | every --- 3 | there ---m 3 | nut ------3 |
| pick-m-2 | eye ----- 3 | thank --- 3 | nose -----3 |
| pot --m--2 | face ---- 3 | take ----- 3 | nine ----3 |
| pass ----2 | find ---- 3 | table --- 3 | new ------ 3 |
| park --m-2 | P1sh --m- 3 | sweet ----3 | neck ---m-3 |
| рара ----2 | six ---m-3 | story --- 3 | move -----3 |
| paint --m--2 | 11\% ------3 | stend ----3 | nouth ---- 3 |



| house --- 4 | bank ---- 5 | city -- 5 | half --m- 5 |
| :---: | :---: | :---: | :---: |
| hungry --- 4 | basket --- 5 | class ----5 | happy ----5 |
| hunt -----4 | bear -m--- 5 | clean --- 5 | hard ---m-5 |
| hurt ---m4 | been -----5 | clock --- 5 | having ---5 |
| jump ----4 | before --5 | dinner --5 | held ----5 |
| keep ----- 4 | belone -- 5 | dish ----5 | hello ----5 |
| xitten -- 4 | best ---m- 5 | does --m- 5 | help -----5 |
| lake ----- 4 | blue --m 5 | done -----5 | here -----5 |
| lend ----- 4 | boat -----5 | down -----5 | lmife ----5 |
| last ---m 4 | bol2 --- 5 | draw --m- 5 | 1aid -----5 |
| Late ---m-4 | bread --- 5 | dress --- 5 | large ----5 |
| very ----5 | bright --- 5 | drink --- 5 | turkey ---6 |
| wesh -----5 | brother --5 | drop ---m-5 | then ----- |
| they ---m-5 | brown -a-- 5 | dram --m-5 | stone --m- 6 |
| than ----5 | buggy --m-5 | each ---m 5 | st111 ---6 |
| gn11e ----5 | bush --- 5 | father -- 5 | name ---- 6 |
| shall --- 5 | but --a---5 | Pirst --- 5 | must ---m-6 |
| skate --- 5 | catch --m-5 | five ---m 5 | them ----7 |
| nother -- 5 | cent -----5 | gone -----5 | seat --m-7 |
| 2OW ----5-5 | chaix --- 5 | great ---- 5 | saw ---m-7 |
| after ---5 | chicken --5 | ground ---5 | much -----7 |
| apple --- 5 | child --- 5 | Crow -----5 | said -----9 |
| back ----- 5 | chop ----- 5 | hair -----5 | road ----- 9 |


| across --- 1 | just ---- 1 | shed --m- 1 | doctor ---- 2 |
| :---: | :---: | :---: | :---: |
| act --mo- 1 | 1emon --- 1 | sheep -ma- 1 | dozen ----2 |
| age -----1 | 1ine ---- 1 | short -m-- 1 | early -m-- 2 |
| alloy --- 1 | 10af ---- 1 | spend --w-- 1 | eaxn --m--- 2 |
| bath --m-1 | Iunch ---m 1 | sunmer ----1 | vast --m-2 2 <br> 数 |
| better ---1 | mean ----- 1 | Sunday ---- 1 | fanily ----2 |
| butter ---1 | met -m-m- 1 | tesch ---- 1 | folt-m-m- 2 |
| coming -- 1 | micht --- 1 | techer --- 1 | flew ---m- 2 |
| copy ---- 1 | mind --m- 1 | think --m-1 | flour --m-2 |
| date ----1 | mine --m- 1 | tonigit ---1 | Porgot ----2 |
| a18-----31 | noney --- 1 | wake ------1 | srew ------ 2 |
| don't-m-1 | nor --m-m-1 | hedmesday - 1 | heert -m-- 2 |
| drean ---1 | pff ---m- 1 | again --m-2 | herself --8 |
| drive --m 1 | parlor --1 | bark ----- 2 | hid ------2 |
| drove ----1 | blain -- 1 | beg -------2 | hole ------2 |
| earth ----1 | point --m--1 | blew --mo-m 2 | hour ------2 |
| farm --m-1 | rent -mom 1 | blow -----2 | knee --m--- 2 |
| fell ----1 | rest meme 1 | bay --m---2 | knock ----- 2 |
| Peel ---- 1 | rioh --m- 1 | carry ---m-2 | know ------ 2 |
| forget -- 1 | salt ---m 1 | change -m- 2 | 1amb ---m-2 |
| Pork --m- 1 | says 5 - 1 | 0001 -----2 | $\operatorname{lamp}-----2$ |
| Priday -- 1 | sea --m-m 1 | corn --m--- 2 | law --m--- 2 |
| g00d-by - 1 | seen --m- 1 | cover ----- 2 | Ieave --m- 2 |
| July ----1 | seen ----- 1 | crevil ------2 | 118ht----2 |
| June --m- 2 | send --m- 1 | spent ---- 1 | mail -----* 2 |


| many ----- 2 | sugar ----2 | clothes --m-3 | hall ---m- 3 |
| :---: | :---: | :---: | :---: |
| lay --m--2 | gheep ----m 2 | clothing ----3 | lesson -m- 3 |
| myseli --- 2 | talk ------2 | cloud --m---3 | 1isten $7-0.3$ |
| noise ----2 | trought --- 2 | color ---m--3 | 10se -----* 3 |
| north ---- 2 | tooth -----2 | comer --m- 3 | mark -----3 |
| paic -----2 | town ---m--2 | count ------3 | Monday ---- 3 |
| part -----2 | train ----- 2 | cousin ---m 3 | need --m--- 3 |
| paach ---2 | $\text { thing }----2$ | cream ------- 3 | night ----3 |
| pear ----2 | voice ----2 2 | died --------3 | nine ------3 |
| pleeso ----2 | wait ------2 | exsy -------- | people --- 3 |
| porch ---2 | want -----m 2 | enc --------3 | pretty ---m 3 |
| pounci --2 | warm --m---2 | Pair ---m-3 | push -----3 |
| prize ---2 | afternoon - 2 | fairy ---m---3 | quart ----3 |
| rabbit ---2 | around - - ${ }^{\text {a }}$, | fence --m----3 | quarter ---3 |
| weack --- 2 | balloon -- \% | fex --------3 | right -mom- 3 |
| river --- 2 | besall --m- | fight ------3 | round ---m-3 |
| roof ----2 | bone -----3 3 | Plnish ------3 | Saturday -- 3 |
| rove ----2 | both ---m- 3 | follow-m-- 3 | scare --m-3 |
| same ---m-2 | bottlo --- 3 | fond --m---m-3 | sew ------3 |
| $\operatorname{sent}---2$ | broon ----3 3 | food ------- 3 | shake ---m-3 |
| sct -----2 | built ----3 | Svde ------3 | ships -----3 |
| shoule ---2 | chalk ----3 | crandmother - 3 | sheet -----3 |
| sorry ---2 | children - 3 | Sray --------3 | side ------3 |
| speak --- 2 | church ----3 | grocery ----3 3 | sight ----3 |
| spin -----2 | clear ----3 | guess ------3 |  |


| sir -------3 | wood ------ 3 | became ----- 4 | dollar ---4 |
| :---: | :---: | :---: | :---: |
| somethinc -- 3 | world -----3 | become ----- 4 | eight -----4 |
| spoon ---m-3 | would ---m-3 | behind ----- 4 | onough --m-4 |
| stenp ------3-3 | youns ----3 3 | below ---m---4 | 61ephant - - 4 |
| StErt-----* 3 | month ----- 3 | beneath ---- 4 | even ------ 4 |
| stay -m-m-m 3 | stood --m-3 | birthday ---4 | fail ------4 |
| steep ----m-3 | happen ---- 3 | block ----m- 4 | front --m- 4 |
| stop ---m-3 3 | hear --m-m 3 | born -m---4 | fruit -----4 |
| string----m 3 | heard ---m 3 | bottom ----- 4 | funny --m-- 4 |
| study -----3 | heavy --m- 3 | bought --m-4 4 | Gift ------4 |
| such -----m-3 | high ---m-3 | brave ------4 | glass ----- 4 |
| suit ---m--3 | holicay --m 3 | breariast --4 | honey ---m- 4 |
| supper ----3 | hope ------3 | bundle -m---4 | hurry -----4 |
| sure -------3 | hunared --- 3 | $\operatorname{cose}--\cdots-\infty 4$ | knew ----m- 4 |
|  | invite --m 3 | chase ---m- 4 | March -----4 |
| tasto -----3 | laugh ----3 | cheese ---- 4 | maybe --m- 4 |
| their ---m--3 | 1ady ----- 3 | Chreistmes -- 4 | mile ------4 |
| tie -------3 | 1ace ---m- 3 | circle ----- 4 | mill ------ 4 |
| twelve----- 3 | kitchen --m 3 | circus -----4 | morning --- 4 |
| twice ---m- 3 | above ---m- 4 | close ------ 4 | most ------ 4 |
| 4ntil -----3 | afrald ----4 | cloth --m--- 4 | Mr. ------- 4 |
| upon --m--m-3 | alnost --- 4 | country --- 4 | Nirs. --m---4 |
| use --m---m-3 | alone ----4 | aance ------4 | music --m- 4 |
| *18h -------3 | another --- 4 | danger ---- 4 | naughty --- 4 |
| Without --m-3 | avake --m- 4 | aidn't----4 | near --m--* 4 |


| nickel ----- 4 <br> note $\qquad$ 4 | $\begin{aligned} & \text { south }--4 \\ & \text { stain }-4 \end{aligned}$ | blossom --- 5 board ---- 5 | bury ----7 besides --7 |
| :---: | :---: | :---: | :---: |
| nothine ---- 4 | sten ---- 4 | breath ---- ${ }_{\text {P }}$ | biccest -- 7 |
| obey -------- 4 | stockine 4 | burn ------5 | bowl ----- |
| Oiten ------ 4 | straw --- 4 | caught ---- 5 | branch ---7 |
| outside ---- 4 | third ---4 | excuse ----5 | broke ---- 7 |
| own --------- 4 | those --- 4 | empty -----5 | broucht --7 |
| page ----..- 4 | throed -- 4 | insidue ---5 | expect ---7 |
| pieee ------ 4 | throw -- 4 | iron ------ 5 | while -----7 |
| place ------ 4 | tried --- 4 | steal ----- 0 | wear ----- |
| queen ------ 4 | trip ---- 4 | struck ---- 6 | which ---- 8 |
| quick ------ 4 | try ----- 4 | whip ------ 5 | apiece --- 8 |
| te ------ 4 | muescay - 4 | always ----6 | ashes ---- 8 |
| ace ------- 4 | turn ---- 4 | among ------ 6 | between -- 8 |
| ady ------ 4 | uncle --- 4 | ankle -----6 | bridee --- 8 |
| cess ---- 4 | vacation 4 | anything -- 0 | Priend --- 8 |
| ribbon ----- 4 | ve ch --- 4 | anyway ---- 6 | threw ---- 9 |
| runninc ---- 4 | wheel --- 4 | blade ----- 6 | throuch -- 9 |
| Santa Claus 4 | where --- 4 | blaze ---- 6 | himraday - 9 |
| ve -------- 4 | whole --- 4 | build ---m- 6 | number --- 9 |
| seven ------ 4 | yestoday 4 | busy ------6 | orance --- 9 |
| since ------ 4 | along --- 5 | carried ---6 | whistle - -10 |
| $\text { son -------- } 4$ | $\text { also }-{ }^{5}$ | climb | whisper - 10 |
| rooin ---m 4 | auturn -- | cough ---m | because - 11 |
| rubber $\qquad$ 4 | benana --5 | else ------ 6 | break --- 11 |
|  | berry --- 5 | April ----- 7 |  |


| behave --m-0 | 110 ------ 1 |
| :---: | :---: |
| nester --- 0 | 1aત̃ -m-m-m- 1 |
| nerket --- 0 | knot-----1 |
| merble -- 0 | kept --m--w 1 |
| goct --m- 0 | kettle ---- 1 |
| frost --- 0 | islena -----1 |
| flet - --- 0 | inch ---- 1 |
| ditci -m-m 0 | hopine --- 1 |
| dash ---mo | nistory --1 |
| crect --m 0 | bay --m-- 1 |
| cannot --- 0 | Exand ---- 1 |
| candle -- 0 | erain -----1 |
| boc ------ 0 | gooce ----1 |
| woncta -0 | glove ----1 |
| wer ------ 0 | cient ----1 |
| snate --- 0 | getting ---1 |
| slow --- 0 | geese -----1 |
| shace --- 0 | gather ---- 1 |
| - senc --m-0 | gete ----m-1 |
| meal ---- 0 | ges ----m-1 |
| metter --- 0 | fur --m-m-1 |
| flat ---- 1 | flow ------1 |
| Lumber -m 1 | flock -----1 |
| 11st ----1 | 11t------1 |
| 11ft---m 1 | fasten --m 1 |


| fade ----- 1 | wole --m---1 |
| :---: | :---: |
| explain --- 1 | win -------1 |
| exzle ---- 1 | wild ------1. |
| drank $-\infty-\infty$ | wide ------ 1 |
| broken --m- 1 | wheat ---m-1 |
| dxain ----1 | weop ------1 |
| double ---1 | Wave --w-m- 1 |
| door ---m-1 | Vote -----1 |
| chain --m- 1 | unless ----1 |
| center ----1 | Wely -----1 |
| cattle --m-1 | twice ---m 1 |
| $\operatorname{cost}-\mathrm{m-m} 1$ | trung ---m-1 |
| carpet -m---1 | true ----m-1 |
| canp ----- 1 | travel --- 1 |
| bolc -----1 | $\operatorname{trade~----1~}$ |
| blind --m-1 | treck -----1 |
| bit - -m-n-- 1 | torn -----1 |
| belt ---m- 1 | tore ----m- 1 |
| boans ----- 1 | too -------1 |
| baztle --- 1 | thander ---1 |
| attend --m-1 | team -----1 |
| ahond --m- 1 | steamer --- 1 |
| able ---m- 1 | steam --w- 1 |
| wrons --m-1 | stete --m- 1 |
| won --m-m-1 | spot ---m- 1 |


| spoil --m-1 |  | $\text { 熬ent ------ } 2$ | shower --- 2 |
| :---: | :---: | :---: | :---: |
| sound --m-1 | 011--m---1 | thumb ------ 2 | Shel1 --m- 2 |
| somebrdy - 1 | news ---m- 1 | tireat --m-- 2 | shadow -m- 2 |
| slippea --- 1 | needle ---- 1 | thousand ---2 | sale --m- 2 |
| silk ---m-1 | navy --m--m 1 | thouch -----2 | sate --m-2 |
| shook ---m 1 | nail -----1 | thief --m- 2 | rale --m-s |
| shout ---m- 1 | motor --m- 1 | thick -----2 | rough ----2 |
| shore ----- 1 | minute --m 1 | thonselves - 2 | rear -----2 2 |
| shape -----1 | middle ---- 1 | tenth -----2 2 | -1po - - - 2 |
| scatter --- 1 | merxy ----1 | taught -----2 | remenber --2 |
| sad --m-m-1 | melt ---m-1 | sum -------2 | 1ait --m-- 2 |
| moot -----1 | match --m 1 | subtret---2 | quict -----2 |
| rod ----m- 1 | yourself --2 | 3trean -----2 | ancetion - - |
| report --- 1 | worth -m-m- 2 | storin -m---2 | prosent ---2 |
| rece -m----1 | Worn ------2 | stir --m--- 2 | potato --- 2 |
| yrint - -----; 1 | women --m-m 2 | atick ------2 | police ---2 |
| price ---m 1 | woman -----2 | squere ---m 2 | poen ------2 |
| post-ofeice 1 | wolves --- 2 | spoke ----m- 2 | plan --m---2 |
| post ---m-1 1 | wife ------ 2 | sour ---m-2 | pillow ----2 |
| pocket --- 1 | whose ---m 2 | 零re ------2 | p1geon ---- 2 |
| plate ---m 1 | weeds ----w 2 | slip --m-x-2 | piano -m- 2 |
| pipe -----1 | weather --- 2 | slide --m--2 | nerfect --- 2 |
| picturo ---1 | twenty ---- 2 | slept ------ 2 | penny --m- 8 |
| gtrade --m-1 | touch -----2 | skin -----m 2 | peace -----2 |
| palace --- 1 | tomorrow -- 2 | size ---m- 2 | past --mo-- ${ }_{\text {d }}$ |


| peir ---2 | 11on ---- 2 | Decomber --- 2 | ned -------- 3 |
| :---: | :---: | :---: | :---: |
| pail ---2 | 1ate ---- 2 | crowd --m-u-2 | Iying --m- 2 |
| ought --- 2 | hook ----- 2 | creep -----2 | 1ucky -----3 |
| orcherd - 2 | honest --- 2 | cotton --m- 2 | 1imb ------- 3 |
| Uetober - 2 | heat -m-m- 2 | cottece ----2 | Lawn -------m 3 |
| 0'clock-2 | hate -----2 | compeny ----2 | jewel --m--m 0 |
| notlee-2 | hamaer --m 2 | coffee ---m- 2 | Jenuaxy ----3 |
| noisy -- 2 | cuard ---m 2 | bend --m-m-2 | Indian -----3 |
| nent---2 | fourth --- 2 | c.1ub -------2 | healthy ---- 3 |
| nocnly ---2 | fought --- 2 | clay ------2 | grocerles --3 |
| monloy -- 2 | Plood ----2 | cheap -m---2 | geography --3 |
| miselief 2 | follow --- 2 | captore ----2 | further ----3 |
| Ionesome 2 | February - ${ }^{\text {c }}$ | blanket-m-2 | furniture - - 3 |
| 100y---2 | feathoy --2 | bitter ----2 | frog -------3 |
| 10:0.---2 | fare ----2 | biscuit ----2 | forty ---m-3 |
| limbinct 2 | express - 2 | beliave --m 2 | POTH ------- 3 |
| 10er --- 2 | enjoy ---w 2 | heet -------2 | forest -----m 3 |
| 10an---2 | eleven --- 2 | base --m----2 | Sold --m---- |
| Lead --- 2 | dvins ---* 2 | bare -m--m- 2 | $\operatorname{singer}--\cdots 3$ |
| Ladden - 2 | drowned --2 | Ausust ----- 2 | ficla ------3 |
| joy----2 2 | division - 2 | answer --m 2 | fear --mo-3 |
| itsele - 2 | divide -- 2 | aboard --m- 2 | Pasther ---- 3 |
| Indeed -- 2 | depot ---- 2 | mar ----m- 3 | everybody - 3 |





| afterwora-1 | hotel ---m 1 | tire ------1 | screen ---- 2 |
| :---: | :---: | :---: | :---: |
| ares ---m-1 | intend ---- 1 | visit ---- 1 | ticket -----2 |
| auto ------ 1 | leather --- 1 | voyage ---- 1 | treat ------2 |
| beyond ---1 1 | 100p ------1 | Whom------1 | trin ------- 2 |
| blame --m- 1 | mack ---m-- 1 | wine ---m- 1 | trust ------2 2 |
| chence --m-1 | pack ---m- 1 | Wipe ------1 | tumble ----2 |
| cheer --mom 2 | package --- 2 | Wire --mon- 1 | upper --m--- 2 |
| coast --mm 1 | plle --m--- 1 | whae --m---1 | uscful -----2 |
| damp ---m 1 | pure ---m- 1 | wool ------1 | vegotcile --2 |
| dancerous - 1 | purse --m- 1 | woolen ---- 1 | V1ew --m---2 |
| defett --m 1 | rid --m----1 | mix --m--- 2 | whether ----2 |
| fact ---m-1 | shirt --m- 1 | Office ---m | within -m-m-2 |
| fifty ---m-1 | anell ---m-1 | pasture -- - 2 | address --m-2 |
| Ifle ----- 1 | smooth ----1 | ¢rese ----- 2 | aid -om----2 |
| forenoon -- 1 | soil ------1 | problem --2 | alera -----2 |
| fortino -- 1 | solid ----- | rance ---m-2 | arrest -----2 |
| cesoline - 1 | sort --m---1 | xather ----2 | artist-m---2 |
| grant ---m 1 | sovi-------1 | return ----2 | attack -----2 |
| heaven ---- 1 | spare ------1 | risc -m-m--2 | barrel ---me |
| hindex ----1 | test ---m- 1 | sail ---m-2 | bathe ---m-2 |
| hoarse -mm 1 | thin ------ 1 | sailor --m-2 | blot-m----2 |
| hollow ---- 1 | thirty ----1 | scroan ---2 | boast ------2 |


| $\text { bruise }-1-2$ | foolish ----2 | human -me 3 | Aifference --- 3 |
| :---: | :---: | :---: | :---: |
| cabin -m--2 | forth --------2 | husband --3 | different --- 3 |
| cause --m 2 | Irozen --m-- 2 | instoad - 3 | dispute ------ |
| cancnt --me 2 | handsone ----2 | jail --- 3 | dul1 ---------3 |
| chilly ---2 | harvest -m-m-2 | fuice -- 3 | elevated ---- 3 |
| cities --- 2 | homn --------2 2 | Iinen -- 3 | entrence -----3 |
| concort ---2 | hovevor -----2 2 | $\operatorname{lnin}$; - 3 | escape --m---3 |
| curtein --- 2 | hung-m-m-m-2 | 10050---3 | examination -- 3 |
| debt-m-m-2 | job ---m-m-2-2 | account - 3 | exar --m-m-m-m |
| dely -m--2 2 | least --m-m-- 2 | 2.110w --- 3 | except ------- |
| deserve --- 2 | Iend --m--m---2 | birth ---3 | Paint ------- 3 |
| dxill ---m- 2 | less ---m-----2 | bunch ---3 | faithful -----3 |
| driven ---- 2 | 1ıbrary ------2 | business 3 | mistake ----- 3 |
| dropped --- 2 | lilies ---m-- 2 | canoe -- - 3 | newspaper --m- |
| duty -m-m-2 | feult --m-----3 | chere -- 3 | ecean ---m---- 3 |
| eḑe ---m-2 | 9lame ---m---- 3 | chert --- 3 | omit ---m---- 3 |
| entex ---m-2 | funeral ---m- 3 | collect - 3 | orphan ------3 |
| equal ----2 | fein -------3 | comfort --3 | pail ---m--m-3 |
| extse----2 | grapes -------3 | daily ---3 | passencer ---- 3 |
| factox ---2 | handkerchief -33 | deuchter 3 | perhaps ------3 |
| fever --m 2 | health --m----3 | deliver - 3 | person --m----3 |
| fifth -----2 | hospitel -----3 | destroy -3 | pitcher ------ 3 |



| length --m- 4 | proper --- 5 | scratch ----6 | journey -mm 7 |
| :---: | :---: | :---: | :---: |
| 108s ---m--4 | putish -- 5 | sense --m---6 | cushtin - - 7 |
| Iuncheon --- 4 | reanin -- 5 | swe.110\% --- 6 | medicine ----7 |
| machine ---* 4 | robber -- 5 | tax ---m-6 6 | metal --m---7 |
| manncr ---m 4 | Push ---*- | usual ------6 | severel --m-7 |
| manuractare 4 | saucy --m 5 | valley ----6 | aparkle ---m-7 |
| agoinst ----5 | score --- 5 | waste ------6 | stretch -m-- 7 |
| Aneriekr -- 5 | scout ---m-5 | weak ------- 3 | recion ------ 8 |
| begere ----5 | sclect ---5 | butchar ----6 | soparate ---- |
| borrow-----5 | settle ---5 | colum -m--6 6 | serve ---m---8 |
| bother ---- 5 | aincerely 5 | equator $-m-6$ | although -m-m |
| brectre --- 5 | Steat ----5 | garage -----6 | aviul ------8 |
| airection - 5 | strance ---5 | injure --m- 6 | errand ------8 |
| guest --m-- 5 | tear ---- 5 | madam ----m-6 | centlemen ---3 |
| inspect ---5 5 | telegram - 5 | arithmetic - 7 | subject -----9 |
| knowa ------5 | telephone 5 | avenue -----7 |  |
| odd ---m---5 | poriy --- 5 | colery -----7 | none --m---30. |
| picnie ---- 5 | ourselves 5 | colonues ---7 | receive ---- 13 |
| position --- 5 | model -----5 | collar ----7 | nature ------1/4 |
| praise ---m- 5 | period ---5 | comat ----7 7 | review ---- 1 |
| prisonex ---5 | product--5 | cruel ---m-7 | composition 12 |
| pronise -- 5 | reilroad - 6 | Rountein -- 7 | weight ----- 13 |
|  |  |  | telegraph -- 14 |

BIXPIT GRADE

| almanax ---2 | distant ---2 |
| :---: | :---: |
| jacket --m-- 2 | distance - 2 |
| direct --m- 2 | introduce --2 |
| inforn ---- 2 | aictionary - 2 |
| Anclude --- 2 | diamond ---2 |
| idea -m--m- 2 | cev --------2 |
| iciole ----2 | abligt ----2 |
| daxa 0 ---m- 2 | covomment - 2 |
| fumiat --m 2 | consider --m-2 |
| Flesh ---m- 2 | connect ----2 |
| sinkl ---m-2 | clever --m-2 |
| iavowite ---2 | chisel ----2 |
| favor .-mm-m 2 | check -----2 |
| fancy----2-2 | chaptar ---2 |
| manoss----20 2 | ceroal -----2 |
| Peilure ---2 | excellent --2 |
| contral ---2 | coiling---- 2 |
| entertain --2 | cerpenter - - 2 |
| eneny -----2 | $\operatorname{cosm}---\infty-\infty$ |
| electric - 2 | burclar ---2 |
| elect -----2 | bncese ---2 |
| camost --- 2 | attention --2 |
| Cue-----m-2 | attempt --- 2 |
| drawn --m--2 | article ---- 2 |


| companion ---3 commence ----3t | setisfy --- -3 rostaurant -3 | $\begin{aligned} & \text { Pfigia, } 4 \\ & \text { fectics }-4 \end{aligned}$ | volume -----6 6 thingty ----6 |
| :---: | :---: | :---: | :---: |
| coanse -----3 | Mpinciple -- 3 | expel ----4 4 | Suceess ---6 6 |
| cllmate---3 | nephow ------3 | onvelope -- 4 | request ---- 6 |
| choice -----3 | masoun --m---3 | easily --- 4 | recipe ----* 6 |
| chocolate ---3 | 1iquia --m--3 | deceive --- 4 | receipt --- 6 |
| certrin ----3 | jealous --m- 3 | continue -- 4 | deseribe ---6 |
| celebrate --3 | mander --m--m 4 | chorus --- 4 | Pamilian ---6 |
| calender --- 3 | Victin -m--- 4 | broad ----- 4 | Smmedately 7 |
| briei ---m-3 | valuable ---* 4 | aluticbet - 4 | source -----7 |
| appetite --m-3 | Unitc ---m-m- | fieree ----5 | scone ------7 |
| anusoment --3 | union ------4 | Invitation 5 | scorce ----7 7 |
| Qurient bure - 3 | title --m-- 4 | Angipo---5 | gronounce --7 |
| accurate ----3 | tomperature - 4 | crexcios - - | possinle --7 7 |
| cecicert --a-3 | succedd ----- 4 | descrivtion 5 | Minety ----9 |
| $\text { weloone ----- } 3$ | M20bably ----4 | vessel --- 5 | nepvous ----9 |
| neavon ------3 | mporex ----m- 4 | thorough --5 | wrindle -- 10 |
| wealth ------3 | necesscry --- 4 | severe -- 5 | scholar. --- 10 |
| trekte -----3 | imagine --m- 4 | serions --5. | yield -----11 |
| tomade---3 | isthmus ----- 4 | scenery --- 5 | weich -----11 |
| temmible --- 3 | incist --m---4 | pratrio --- 5 | vrestle --- 12 |
| circts-m-m-3 | Industry ---- 4 | prectice --5 | pursue ---15 |
| stomech ----3 | icnorant -m- 4 | patient ---5 | soaron --- 16 |
| speot 1 --- 3 | Senexal --w-4 | patience --5 |  |

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[^0]:    * "Spelling Ability; Its Measurement and Distribution".

[^1]:    * Mathew VI, 34

[^2]:    * Mr. Frank E. Parlil -- "The Conquest of Words." Ginn \& Co.

[^3]:    * E -- number on errors

    L -- is the formal lesson

