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INDIVIDUAL DIFFERENCES IN VOCABULARIES  
OF KINDERGARTEN CHILDREN

A Thesis Submitted to the Graduate Division in  
Partial Fulfilment of the Requirements for the Degree  
of Master of Science

By  
Ruth Marguerite Grotheer

KANSAS STATE TEACHERS COLLEGE  
Pittsburg, Kansas  
May 1933

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# TABLE OF CONTENTS

	Page
LIST OF TABLES .....	5
Chapter	
I. INTRODUCTION .....	1
Origin of the Problem .....	1
Importance of the Problem .....	2
Statement of the Problem .....	4
Work done in Related Fields .....	5
II. TESTS USED .....	18
General Statement .....	18
Standardized Test .....	18
Special Vocabulary Test .....	18
III. DESCRIPTION OF SUBJECTS TESTED .....	24
General Description .....	24
Sex of Subjects .....	24
Nationality of Subjects .....	24
Age of Subjects .....	25
Social Status of Subjects .....	25
Intelligence of Subjects .....	26
Conclusion as to Nature of Subjects .....	27
IV. TECHNICAL RESEARCH PROCEDURES EMPLOYED .....	28
Test and Measurement Technique.....	28
Administering the Tests .....	28
Tabular Technique .....	30
Statistical Technique .....	30
V. FREE, UNRESTRAINED RESPONSES GIVEN BY THE VARIOUS SUBJECTS .....	31
VI. DISCUSSION OF RESULTS .....	113
Introduction .....	113
Individual Differences in Defining Words as Shown by Central Tendencies and Dispersions .....	113
Nature of Individual Differences in Defining Words as Shown by Correla- tions .....	147
Individual Differences in Defining Words as Influenced by Various Factors .....	152
Summary and Further Interpretation of Results .....	158
Interpretation of Results Based on Central Tendencies and Dispersions .....	158
VII. CONCLUSIONS AND EDUCATIONAL IMPLICA- TIONS .....	163
General Conclusions .....	163
Pedagogical Implications .....	164
Problems for Further Study .....	165
APPENDIX .....	168
BIBLIOGRAPHY .....	169

# LIST OF TABLES

Table	Page
I. Age of Subjects .....	25
II. Intelligence Quotients of the Subjects .....	26
III. Number of Words Defined Correctly by Each Subject .....	114
IV. Summary of Results Dealing With the Number of Words Defined Correctly .....	115
V. Number of Words Defined in Terms of Use by Each Subject .....	116
VI. Number of "Use Definitions" Beginning With an Infinitive .....	117
VII. Number of "Use Definitions" Beginning With What or They .....	117
VIII. Summary of Results Dealing With Definitions in Terms of Use .....	118
IX. Number of "Superior to Use Definitions" Given by Each Subject .....	119
X. Number of "Superior to Use Definitions" Designating Place, Given by Each Subject .....	120
XI. Number of "Superior to Use Definitions" Designating Time, Given by Each Subject .....	121
XII. Number of "Superior to Use Definitions" Designating Color, Given by Each Subject .....	122
XIII. Number of "Superior to Use Definitions" Designating Shape, Given by Each Subject .....	122
XIV. Number of "Superior to Use Definitions" Designating Composition, Given by Each Subject ....	123
XV. Number of "Superior to Use Definitions" Giving General Description, Used by Each Subject ....	123
XVI. Number of "Superior to Use Definitions" Giving General Nature of the Object Defined, Used by Each Subject .....	124
XVII. Number of "Superior to Use Definitions" of Lowest Classificatory Order, Given by Each Subject .....	124

Table	Page
XVIII. Number of Superior to Use Definitions of Higher Classificatory Order, Given by Each Subject.....	125
XIX. Summary of Results Dealing With Total Number of "Superior to Use Definitions".....	128
XX. Frequency of Use of Wrong Tense in Defining Verbs by Each Subject.....	129
XXI. Frequency of Definitions of Words, Similar as to Sound to the Stimulus Word, Given by Each Subject.....	130
XXII. Frequency of Definitions of Words, Similar as To Classification, to the Stimulus Words, Given by Each Subject.....	132
XXIII. Summary of Results Dealing With Total Number of Definitions of Words Similar to Stimulus Words.....	133
XXIV. Number of Similar Words, Instead of Definitions for the Stimulus Words, Given by Each Subject.....	134
XXV. Frequency of Using Stimulus Word in Response.....	135
XXVI. Summary of Results Dealing With Use of Stimulus Words in Responses.....	136
XXVII. Frequency of Wrong Responses Which Showed Neither Similarity to nor Class Relationship with the Stimulus Word.....	137
XXVIII. Summary of Results Dealing With Wrong Responses Which Showed Neither Similarity to nor Relationship With the Stimulus Words.....	137
XXIX. Frequency of Responses, "I don't know" and of Repetition of Stimulus Words.....	138
XXX. Summary of Results Dealing With the Response, "I don't know".....	139
XXXI. Frequency of Defining the Slang Use of Stimulus Words.....	140

Table	Page
XXIII. Number of Nouns, Verbs, and Adjectives Defined by Each Subject.....	141
XXXIII. Number of Nouns Defined by Each Subject...	142
XXXIV. Number of Verbs Defined by Each Subject...	143
XXXV. Number of Adjectives Defined by Each Subject.....	143
XXXVI. Frequency of Knowledge of Words in Vocabulary Test of 33 Children.....	145
XXXVII. Correlations Between The Total Number of Words Defined Correctly and (1) Intelligence and (2) Mental Age.....	148
XXXVIII. Correlations Between the Number of "Use Definitions" and "Superior to Use Definitions" and (1) Intelligence and (2) Mental Age.....	149
XXXIX. Correlations of Mental Age and Intelligence With Use of Stimulus Words in Responses and Use of Definitions of the Words Similar to Stimulus Words.....	151
XL. Average Scores of Different Intelligence Groups on Basis of Most Important Kinds of Responses Studied.....	152
XLI. Average Scores of Different Mental Age Groups on Basis of Most Important Kinds of Responses Studied.....	154
XLII. Average Scores of Boys and Girls on Basis of Most Important Kinds of Responses Studied.....	155
XLIII. Average Scores, Based on the Most Important Responses Studied, According to Social Status.....	157
XLIV. Summary of Ranges and of Averages for Various Factors Studied.....	158

# CHAPTER I

## INTRODUCTION

### Origin of the Problem

Many scientific investigations on various subjects taught in the elementary school have been made and consequently instruction in the schools has been greatly improved in the light of these studies. Individualization of some of the different elements of instruction has aided in solving some of the problems. There are still however a great number of problems which need to be investigated.

Among the most important problems demanding attention is that of improving instruction in the early elementary grades.

"A variety of investigations carried on both in California and in the country at large, have shown that the largest proportion of failures in school work occur in the first grade."<sup>1</sup> Concerning this the Curriculum Commission says, "It seems evident, from various studies relating to this problem, that the large number of failures at the beginning of school life are not due to low intelligence of children concerned but to faulty school organization and teaching."<sup>2</sup> This shows that problems in the early elementary grades, including kindergarten, demand attention. Since every branch of work has its beginning in the kindergarten and first grade, and since it is there that the background for the work taken

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<sup>1</sup>California Curriculum Commission, Teachers Guide to Child Development, p. 431.

<sup>2</sup>Ibid., p. 434.

in the upper grades is formed, this is the proper place for beginning the solution of many of the problems. During her teaching in kindergarten and elementary grades, the writer became very much interested in individual differences in vocabularies of children, and came to the conclusion that much remains to be done to give each child entering school an equal opportunity, as far as this is possible, to grow and develop.

### Importance of the Problem

The importance of language in human progress has for hundreds of years been recognized by some people. "Language is the greatest single discovery of man."<sup>3</sup> "Words serve to convey or express ideas that make human speech the foundation for progress in all arts, sciences, and civilization."<sup>4</sup> Kirkpatrick says:

"Of all the inventions of the human race nothing compares in importance regards mental development, with language. The vocabulary of a person represents in a condensed and symbolic form all that he has experienced and imagined. The breadth of his mental experience is indicated by the number of words that have for him a meaning, while the accuracy of his thinking is shown by the constancy and exactness of meaning with which he uses words."<sup>5</sup>

Since speech is so important in life it has long been regarded as a very important subject of instruction in the school.

The existence of individual differences in children has

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<sup>3</sup>E. A. Kirkpatrick, "A Vocabulary Test", Popular Science Monthly, LXX, (February, 1907) p. 157.

<sup>4</sup>F. N. Freeman, How Children Learn, p. 125.

<sup>5</sup>E. A. Kirkpatrick, loc. cit.

long been recognized by thinking people. The California Curriculum Commission says:

"Even though the kindergarten children are of the same chronological age, and from the same section of a town or a community of similar tastes and customs, their teacher will early find evidence of differences in mental maturity, in richness of experience. It will be necessary for her, then, to plan somewhat different types of activity for differing individuals. . . . Perhaps too at no other period of development is there such a large range of variation evident among groups of children. At this stage they differ greatly in mental, social, and physical growth. In general, we have been requiring children of all different stages of growth to take the same steps in this difficult first adjustment in school life."<sup>6</sup>

If the high percentage of failures in the first grade is to be lowered, more individualization of instruction is necessary.

"Identical stimuli will not produce identical reactions, for as each child comes to school, he brings with him a different heredity and tremendously varying experiences. A true democracy of education demands that we give to each child an equal, hence never the same, opportunity to grow and develop."<sup>7</sup>

"Whether the teacher wishes to promote individuality or uniformity, she must (if she is to be in the highest degree successful) recognize individuality."<sup>8</sup>

A large number of studies are demanding attention to find out the nature of these individual differences in particular elements of instruction. Of these elements language is and will continue to be one of the most important. It seemingly has been taken for granted that all children entering school

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<sup>6</sup> California Curriculum Commission, op. cit., p. 452.

<sup>7</sup> L. A. Peckstein and F. Jenkins, Psychology of the Kindergarten Primary Child, pp. 141-143.

<sup>8</sup> Edwin A. Kirkpatrick, Fundamentals of Child Study, p 319.

have practically the same concept, association and meaning of each of the words commonly found in the vocabulary of a child of that age. This study is made on the assumption that there is a large range of variation evident in vocabularies of kindergarten children.

#### Statement of the Problem

The object of this investigation is therefore, to discover and study some of the individual differences in knowledge of word meaning in kindergarten children as brought out in free unrestrained responses to the words of a test developed specifically for young children. The points considered are individual differences in: (1) defining words correctly, (2) defining nouns in terms of use, (3) defining words in terms superior to use, such as giving the shape, color, size, place, time, material composing it, or class relationship, (4) defining verbs, (5) defining adjectives, (6) defining a word similar to the stimulus word, (7) mentioning a word similar to the word to be defined, (8) including the stimulus word in the definition, (9) giving a wrong response showing no association or relation to the stimulus word. (10) giving the response "I don't know," (11) giving no response, (12) giving the slang meaning of the stimulus word instead of a regular meaning, (13) repeating the stimulus word instead of defining it.

This investigation is made with a view of contributing something to the improvement of instruction in the kindergarten and the elementary grades.

### Work Done in Related Fields

General Statement.- The chief purpose motivating the majority of the vocabulary studies of young children was to find the extent of a child's vocabulary at various ages. Sex differences in size of vocabulary of young children have been studied by only few investigators, while a study of the distribution of the parts of speech has been taken up by a great number. The relation between size of vocabulary and intelligence was a factor under consideration in several of the more recent studies. Some data have been collected by a few researchers showing the relationship between social status and vocabulary. In the following section, the findings of these various investigators will be briefly reviewed.

Extent of Vocabulary.- A great number of investigations of the extent of vocabulary have been made. Most of the earlier attempts apparently concerned themselves with the first appearance of language and its subsequent development and extent at different age levels. Investigations show that the determination of the extent of vocabulary has for the most part followed three methods.

Some investigators have recorded each word used by the child and thus have kept a continuous record of his vocabulary. No standards have been set up in collecting vocabularies by this method. Some, such as Pelsma<sup>9</sup> and Whipple,<sup>10</sup> have used

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<sup>9</sup> John R. Pelsma, "A Child's Vocabulary and Its Development," Pedagogical Seminary, XVII (September 1910), 328-329.

<sup>10</sup> Mr. and Mrs. G. M. Whipple, "The Vocabulary of a Three-Year-Old Boy", Pedagogical Seminary, XVI (March, 1909), 1-3.

daily conversation, others, such as Grant<sup>11</sup> and Nice,<sup>12</sup> have used questions and sentences. Lehman<sup>13</sup> used a combination of the various methods. Stoneburner<sup>14</sup> collected two of his vocabularies by taking the words used by the children from the time they arose in the morning until they went to bed at night. He collected the other three by the cross-out method in which he used 2,000 very common words found in published vocabularies of three year-olds. After this cross-out was completed, each child was watched for a period of one year to determine any word that had been missed. Questions were asked to bring out new words. Other variations, different from that used by Stoneburner, have been used such as recording all words used during varying periods of time which then were checked by using a dictionary to suggest other words known but not used during the time the child was observed. But even such a method of collecting vocabularies is very laborious and quite difficult, especially with the older children.

In some collections of vocabularies, proper nouns have

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<sup>11</sup>James R. Grant, "A Child's Vocabulary and its Growth." Pedagogical Seminary, XXII, (June, 1915), 183-184.

<sup>12</sup>Margaret M. Nice, "The Speech Development of a Child from Eighteen Months to Six Years." Pedagogical Seminary, XXII, (June, 1917), 204-205.

<sup>13</sup>Robert E. Lehman, "Vocabulary of the Pre-School Child." Unpublished Master's thesis, Indiana University, 1924.

<sup>14</sup>Wm. E. Stoneburner, "The Pre-School Child's Vocabulary." Unpublished Master's thesis, Indiana University, 1926.

been included, in others they have not (Bush).<sup>15</sup> Some have used all inflected forms (Lehman),<sup>16</sup> while others have not. In some not only words but also phrases that are used as separate words are included (Gale).<sup>17</sup> Some count a word only once, while others count it once for every part of speech for which it is used. Since many of the children observed in these studies have parents who belong to the professional class, especially teachers, there is a consequent error in sampling. These factors indicate that such vocabularies are not comparable in a strict sense.

Another method used by many is the so-called "dictionary method," in which the first word on every page of the dictionary is listed, or some other similar specific order is followed and those words known by the child are checked and this number is multiplied by the average number of words on a page (Kirkpatrick,<sup>18</sup> and Brandenburg<sup>19</sup>).

The third and probably most satisfactory method of determining the extent of vocabulary is that used by Dr. Madorah

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<sup>15</sup>Arthur D. Bush, "The Vocabulary of a Three-Year-Old Girl," Pedagogical Seminary XXI (March, 1914), 125-126.

<sup>16</sup>Robert E. Lehman, loc. cit.

<sup>17</sup>M. C. and H. Gale, "The Vocabularies of Three Children in One Family at Two and Three Years of Age," Pedagogical Seminary IX, (September, 1902), 422-425.

<sup>18</sup>E. A. Kirkpatrick, "How Children Learn to Talk. A Study in the Development of Language," Science XVIII, (September 1891), 175-176.

<sup>19</sup>George C. Brandenburg, "The Language of a Three-Year-Old Child," Pedagogical Seminary XXII, (March, 1915), 89-91.

Smith. To make her test she chose the first and twenty-first words in each of the two columns of the 126 pages of Thorndikes list of 10,000 most common words in the English language. This list was checked against eighty-four vocabularies of children from eighteen months to six years of age. Words that occurred once or more than once were rearranged into four lists of as nearly equal difficulty as possible. The words were arranged in order of difficulty. Objects, pictures, actions, and questions were used for testing the words.

Most childrens' vocabularies that have been recorded have been individual cases. Gale,<sup>20</sup> Lehman,<sup>21</sup> Bateman,<sup>22</sup> and Stoneburner<sup>23</sup> made attempts to collect the vocabularies of more than one child by either of the first two methods mentioned above. Several summaries of previous work on extent of vocabulary have appeared. Nice<sup>24</sup> has averaged the findings of several investigators and presents tables of the extent of vocabulary for the different early age levels. Pelsma<sup>25</sup> presents a detailed list of childrens' vocabularies up to four years of age which have been published prior to 1913.

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<sup>20</sup>M. C. and H. Gale, op. cit., pp. 422-423.

<sup>21</sup>Robert E. Lehman, loc. cit.

<sup>22</sup>W. G. Bateman, "The Language Status of Three Children at the Same Age," Pedagogical Seminary, XXIII, (June, 1917), 211-240.

<sup>23</sup>Wm. E. Stoneburner, loc. cit.

<sup>24</sup>M. M. Nice, op. cit., pp. 204-243.

<sup>25</sup>John R. Pelsma, op. cit., pp. 328-369.

Seventy-two are included. Since that time William Earl Stoneburner in his "The Pre-School Child's Vocabulary" has presented a list of the published studies from 1913 to 1925.

Kirkpatrick, who has made several vocabulary studies and has investigated work done in this field by others, says:

"Recent detailed studies of the vocabularies and sentences of children from two to five years of age, of the written work of pupils in the grades, and of the understanding vocabularies of older pupils indicate that the number of words used may increase at the rate of four hundred or more a year and that the number understood more or less perfectly is likely to be three to five times as great."<sup>26</sup>

Dr. Smith made a study of the vocabularies of 272 children with reference to extent. She found that the average number of words in the vocabularies increased from zero at eight months to 2,562 at six years and that the average gain per year from two to six years was 572.5 words. She concludes that the "average number of words in childrens' vocabularies increases from zero at eight months to about 2,500 at six years."<sup>27</sup>

Madeline D. Horn<sup>28</sup> made an investigation of the vocabularies of kindergarten children. She collected a total list of 7,086 individual words and 489,555 running words. It was obtained by sending requests to kindergarteners for records of lessons. These lessons were recorded and calculated according to directions. After the tabulation of the words of the

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<sup>26</sup>Edwin A. Kirkpatrick, Fundamentals of Child Study, p. 253

<sup>27</sup>

Dr. Madorah Smith, An Investigation of the Development of the Sentence and the extent of Vocabulary in Young Children, University of Iowa Studies, Vol. III, no. 5, p. 68.

<sup>28</sup>"An Investigation of the Vocabulary of Kindergarten Children," Unpublished Master's thesis, Iowa University, 1927.

lessons they were arranged in descending order of frequency. Data were obtained from directed and undirected lessons. She gives a list of 1,006 words of the highest frequency, with the remaining 6,080 words of lower frequency.

Margaret Cobb has rearranged the Vocabulary Test of the Stanford Revision of the Binet-Simon Intelligence Scale into a tentative order of difficulty for young children. She says:

"In the course of a study of group intelligence tests in grade one which involved Binet examining, it became evident that the words in the Vocabulary Test show an order of difficulty for small children which is noticeably different from that indicated on the blank."<sup>29</sup>

She gives the two lists in a new order based on her findings, and suggests that when the Vocabulary Test is given to young children this word order should be used.

A very extensive investigation of vocabularies of children before entering the first grade was made by the Child Study Committee of the International Kindergarten Union.<sup>30</sup> The problem was to find the vocabulary of normal children before entering the first grade. The list of words obtained had three sources: (1) words children used while attending kindergarten (2) words children used when stimulated by pictures; (3) words children used in the home. Two thousand five hundred

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<sup>29</sup>"Tentative Order of Difficulty of the Terman Vocabulary Test with Very Young Children." Journal of Educational Psychology, XIII (February, 1922), 357.

<sup>30</sup>A Study of the Vocabulary of Children Before Entering the First Grade, pp. 1-36.

words were found. However, many of these words occurred only once, and consequently have low reliability.

In 1924 Ernest Horn, Mrs. Ernest Horn, and Mr. P. C. Packer<sup>31</sup> published a list of the commonest words in the spoken vocabulary of children up to and including six years of age. These data were secured by combining the words from three investigations carried out by Mr. Horn, Mrs. Horn, and Mr. Packer. The first study consisted of words reported in the individual study of the spoken vocabulary of eighty children varying from one to six years of age. In the second investigation about 200,000 running words of the spoken vocabulary of kindergarten children were analyzed. The third investigation consisted of the tabulation of about 70,000 running words of the spoken vocabulary of first grade children in Detroit. These vocabulary counts were taken from the records of what the children said in connection with the activities of the more informal school periods. The final list given was secured by combining the words from the three investigations.

Studies Including Definitions of Words Given by the Subjects.- Mr. and Mrs. Chamberlain made a study of the vocabulary of their boy. This study gives a list of the words found in the vocabulary of the child in his forty-seventh and forty-eighth months, with the complete definitions as given for the various words. "A number of definitions and 'meanings'

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<sup>31</sup> Twenty-fourth Yearbook of the National Society for the Study of Education, (1924), pp. 185-197.

illustrate the rapidity of the thoughts of children and the subordination of grammatical accuracy and syntactical form to their immediate expression."<sup>32</sup> Numerous definitions were summed up under the brief phrase "to eat". "The infinitival form of definition indicative of purpose etc., is very common." A "When" clause was also found a number of times. "The type of definition formerly much in demand in the schools where the pupils had to begin with the name of the thing itself, was very common."<sup>34</sup> Often the definition was the briefest possible containing but a single word. Definitions of two or three words were quite common.

Bateman made a study of the vocabulary of three children, his two daughters and a niece. He observed the ability in talking gained by the children from birth to the twenty-eighth month. In his brief survey of speech activity the author has tried to show:

"... how decidedly the language development of the three children who have much the same heredity, who in general are on a par physically and mentally, who are of the same sex and age, has been influenced by individual differences of temperament and by different factors of environment."<sup>35</sup>

In one of his studies Bateman made an attempt "to find what the child had stored in its mind concerning the words in it

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<sup>32</sup>A. F. and I. C. Chamberlain, Pedagogical Seminary, XVI (March, 1909), 94.

<sup>33</sup>Ibid. pp. 96-97.

<sup>34</sup>Ibid. p. 96.

<sup>35</sup>W. G. Bateman, "The Language Status of Three Children at the Same Ages," Pedagogical Seminary, XXIII (June, 1916), 211-240.

vocabulary."<sup>36</sup> He found that to most questions such as "What is a cart?" the child when 12 months of age either gave no reply or pointed out the object asked about, while when 25 months of age she gave intelligent replies, but the replies showed only associative memory. In the thirty-fourth month the child defined some objects in terms of use.

"In eight months time some gain in concepts has been won and considerable advance made in general comprehension of the questions asked and the kind of information expected . . . Replies are usually couched in terms of action related to concrete objects, and have no resemblance to the academic definitions given by older children in the grades and high school."<sup>37</sup>

Distribution of Parts of Speech.- A number of vocabulary studies have included the distribution of the parts of speech. Pelsma<sup>38</sup> has shown that the average per cent of nouns in his daughter's vocabulary up to four years of age was about 60, and of verbs about 20. Beyer<sup>39</sup> found a large proportion of verbs in the vocabulary of a two-year-old child. Of a total vocabulary of 700 words, 143 were verbs. A study of adjectives found in children's vocabularies was made by Harry Trumbo<sup>40</sup> in connection with his Master's thesis at the State University of Iowa. He points out the adjectives that should occur in the vocabulary of a five-year-old child.

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<sup>37</sup>W. J. Bateman, op. cit., p. 493.

<sup>38</sup>John R. Pelsma, op. cit., pp. 328-369.

<sup>39</sup>T. P. Beyer, "The Vocabulary of Two Years," Educational Review II (March, 1915), 191-203.

<sup>40</sup>"The Adjectives in Young children's Vocabularies," Unpublished Master's thesis, University of Iowa, 1921.

Dr. Smith, in her study of the development of the sentence, found that "At two years, verbs, nouns, and adverbs were more frequently used than adjectives and connectives, and at three and four years, verbs and pronouns were more frequently used than adjectives, articles, interjections, and connectives."<sup>41</sup> Mrs. Horn in her Master's thesis gives two tables which she compiled from the various vocabulary studies, showing the distribution of the parts of speech, in per cents, of children from 4 to 6 years of age. These tables show that nouns form the greatest per cent in the vocabulary. Verbs, adjectives, and adverbs are next in order respectively. The percentage of nouns is about two times as great as that of verbs, about four times as great as that of adjectives and about ten times as great as that of adverbs. Pronouns, interjections, prepositions, compound nouns, and proper nouns, comprise a very small per cent of the total vocabulary.

Sex Differences in Vocabularies.- Not many studies have taken up the investigation of sex differences in vocabulary. Dr. Smith's investigation shows that "the girls had acquired a few more words than the boys at two and at three years of age, but after this age there was no difference."<sup>42</sup> She concludes that "the sex factor is not important after three years of age."<sup>43</sup>

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<sup>41</sup>Madorah Smith, op. cit., p. 66.

<sup>42</sup>Ibid, p. 68.

<sup>43</sup>Ibid, p. 68.

Doran<sup>44</sup> found that in early infancy the girls use more words than boys. He found that at 24 months eight boys had an average of 367.2 words and sixteen girls an average of 573.1 words. Thus the girls excelled by 206 words, or 56.1 per cent. At 30 months of age an excess of 30.9 per cent in favor of the girls was found. Doran came to the conclusion that girls have a larger vocabulary than boys up to about 5 or 6 years of age after which boys develop the larger one. Brandenburg<sup>45</sup> found that in general, on an average, the vocabulary of girls is smaller than that of boys after the age of 5 years.

Influence of Social Status on Vocabulary.- Some data have been collected showing the relationship between social status and vocabulary. Drever<sup>46</sup> compared the vocabulary of children in very desirable homes to the vocabulary of Edinburgh Provincial Committee Free Kindergarten Children. The vocabulary of the latter, the slum children, is smaller than that of the children of good homes. He found that the per cent of nouns dropped with slum children. Nice<sup>47</sup> made a detailed study of a child's vocabulary in relation to

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<sup>44</sup>E. W. Doran, "A Study of Vocabularies," Pedagogical Seminary XIV, (December, 1907), 422.

<sup>45</sup>G. C. Brandenburg, "Psychological Aspects of Language," Journal of Educational Psychology, IX (June, 1918), 313-332.

<sup>46</sup>James Drever, "A Study of Children's Vocabularies," Journal of Experimental Pedagogy, III, (January, 1915) 98-103.

<sup>47</sup>M. M. Nice, op. cit., pp. 230-243.

environment and gives figures for the comparative influences of outdoor environment, indoor environment, people, story books, and so on, for ages up to 4 years. Kirkpatrick's studies "show that the language of individual children is greatly modified by environment and interest and at the same time is indicative of such influences and of the intellectual development in general and in special lines."<sup>48</sup>

Dr. Smith concludes from her study that "When the children of the same age and equal mental ability were paired according to social status the higher social class showed a higher average of words known, although the numbers were too few to allow drawing a definite conclusion."<sup>49</sup>

Relationship Between Intelligence and Vocabulary.-

Very few vocabulary studies give data on the relationship between vocabulary and intelligence. The small amount of data collected deals with the relationship between extent of vocabulary and intelligence. Dr. Smith concludes from her investigation that "the most significant factor in increase of vocabulary is that of mental age."<sup>50</sup> Kirkpatrick<sup>51</sup> found a positive correlation between extent of vocabulary and class standing. Terman says that his "vocabulary test has a far

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<sup>48</sup> Edwin A. Kirkpatrick, Fundamentals of Child Study, p. 25

<sup>49</sup> Dr. Madorah Smith, op. cit., p. 68.

<sup>50</sup> Ibid., p. 68.

<sup>51</sup> Edwin A. Kirkpatrick, "A Vocabulary Test," Popular Science Monthly, LXX (February, 1907), 161-162.

higher value than any other single test of the scale. Used with children of English speaking parents (with children whose home language is not English it is of course unreliable), it probably has a higher value than any three other tests in the scale."<sup>52</sup>

Summary.- The above studies, it will be noted, deal with a general vocabulary knowledge, stressing mostly extent of vocabulary at various ages from 18 months to 6 years. A few have included a study of the relation of intelligence, sex, and social status to the extent of vocabulary. Several of them have recorded some definitions given by the subjects, but the specific problem of this study is uninvestigated. No one has attempted to study a group of young children with reference to individual differences in knowledge of word meaning as brought out in free, unrestrained responses. The present study has been undertaken to do this.

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<sup>52</sup>Lewis M. Terman, The Measurement of Intelligence, p.230.

## CHAPTER II

### TESTS USED

#### General Statement

This study of individual differences in knowledge of word meaning in young children demanded research instruments that are largely test devices. Two tests were employed: a well-known standardized intelligence test, and a specially constructed vocabulary test.

#### Standardized Test

The standardized test that was used to determine the mental capacity of the children of this study is the Stanford Revision of the Binet-Simon Intelligence Scale. It is well known and requires no special comment. This scale was selected because it is at the present time considered the most reliable test of its kind. A measure of mental ability was necessary in this study for purposes of comparison and correlation with other measurements.

In order to obtain the personal information asked for on the record booklets, and other facts that proved of value in the attack of the problem, conferences were held with the children's parents. In many cases the writer visited the child's home for the purpose of procuring this information.

#### Special Vocabulary Test

General Statement.- One of the problems of this study was to devise an appropriate test for the main problem of discovering and studying differences in knowledge of word meaning. It was necessary that the test meet the following

requirements: (1) It must be applicable to small children and (2) it must hold the child's interest. Since this test was of great importance in the study it is discussed in the next few paragraphs.

Selection of Words for the Test.- In the survey of the literature on the extent of vocabulary, it was found that of the three methods for the determination of the number of words in a child's vocabulary, that devised by Dr. Madorah Smith is the most satisfactory one. This method was described in detail on page 8. The writer has selected the words for this study in a manner similar to Dr. Smith's method.

Since the research instrument used in this study required that it be applicable to young children and hold their interest, the words for this study were selected in the following manner: As a basis for the test every fortieth word in the Thorndike<sup>1</sup> list of the 10,000 most common words in the English language was selected. The list of 250 basic words thus determined was checked with twenty published vocabularies or word lists of different children at various ages from eighteen months to six years. The frequency of occurrence of each word was noted to determine the words in the list which are used by young children. The words that occurred once or more than once in any vocabulary were rearranged in a list according to frequency of occurrence, beginning with the

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<sup>1</sup>E. L. Thorndike, The Teacher's Word Book, pp. 1-126.

words of highest frequency. This reduced the list from 250 to 134 words. These words were divided into two lists which contain fifty-seven words each, and are as nearly equal as possible from the standpoint of frequency of occurrence in the twenty vocabularies and word lists used for checking.

The Form of Questions used in this investigation was an important problem. It was necessary to use exactly the same method of questioning with each individual so as to make the work objective. The most satisfactory and highly standardized form of questions used in any vocabulary test is that of the Stanford Revision of the Binet-Simon Intelligence Scale.<sup>2</sup> Therefore the writer chose to use it. The formula given for the Binet-Simon Test was used: "What is a ball?" "What is a bonfire?" "Sweet, what does sweet mean?" "Gown, what is a gown?" "What does tap mean?" "What does scorch mean?"<sup>3</sup>

Whenever there was difficulty in getting a response a little encouragement or urging was necessary. Here again the writer made use of the procedure given for the Binet-Simon Intelligence Scale.<sup>4</sup> It took the following form: "You know what a . . . is. You have seen a . . . Now what is a . . .?" If the child still hesitated, the writer said "Just tell me in your own words; say it in any way you please. All I want is to find out whether you know what a . . . is."

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<sup>2</sup>Lewis M. Terman, The Measurement of Intelligence, p.225.

<sup>3</sup>Ibid., p. 226-229.

<sup>4</sup>Ibid., p. 225.

If a child persisted in his refusal to define a word which he would ordinarily be expected to know the examiner passed on to the next one and returned to the troublesome word later. No help was given any child by illustrating the use of a word in a sentence or in using other names. The writer, who did all the examining, adhered strictly to the formulae given above. If the definition as given did not make it clear whether the child had the correct idea he was told: "Explain." or, "I don't understand, explain what you mean." The child was never told that his definition was not correct, nor was a different definition ever asked for. The examiner avoided saying anything which would suggest a model form of definition.

Method of Scoring.- Here also the most highly standardized method, namely that of the Vocabulary Test of the Binet-Simon Intelligence Scales<sup>5</sup> was used. A response was credited, in full if it gave one correct meaning for the word, regardless of whether it is the original or derived meaning. Occasionally half credit was given. In deciding how lenient to be in scoring the responses, the writer was guided by the suggestions and examples given by Terman.<sup>6</sup> The symbol "1" was used to denote full credit, " $\frac{1}{2}$ " one-half credit, "-" no credit.

Method of Checking Other Points.- The other points of the test which were studied were checked with the following symbols: (1)- Definition in terms of use, beginning with an

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<sup>5</sup> Lewis M. Terman, op. cit. pp. 226-229.

<sup>6</sup> Ibid. p. 227.

infinitive.

(2)- Definition in terms of use beginning with "what," or "they" ("What people wear").

P- Definition superior to use designating place.

T- Definition superior to use designating time.

S- Definition superior to use designating shape.

C- Definition superior to use designating color.

Si-Definition superior to use designating size.

Cp-Definition superior to use designating composition.

N- Definition superior to use designating general nature of the object defined.

D- Definition superior to use designating general description of the object defined.

C(1)-Object defined under remote class, giving few if any characteristics to distinguish it from members of the same class.

C(2)-Object defined under the next higher class, giving more essential traits which distinguish the object from others of the same class.

Te-Wrong tense given in the definition of a verb.

V- Word that may be used either as a noun, adjective, or as a verb, defined as a verb.

Adj-Word that may be used either as a noun or as an adjective, defined as an adjective.

Adv-Adverb defined.

Ss-Defined a word similar, as to sound, to the stimulus word.

Sc-Defined a word similar, as to class or class relationship, to the stimulus word.

Ms-Mentioned a word similar as to sound to the stimulus word instead of defining it.

Me-Mentioned a word similar as to class or class relationship, to the stimulus word instead of defining it.

W- Wrong response, showing no association with or relation to the stimulus word.

✓ V- "I don't know."

R- Word repeated instead of defined.

Sl-Slang used in the definition.

In order to make the work uniform and more valid all the scoring and checking of the tests was done by the writer who was careful to allow no variation in the method used.

## CHAPTER III

### DESCRIPTION OF SUBJECTS TESTED

#### General Description

A detailed investigation of the subjects used for this study was made to furnish information for those parts of the study which deal with such factors as age, sex, intelligence, and social status.

The tests were given to thirty-three children enrolled in the public kindergartens of Columbus, Kansas, in the school year 1931 to 1932. This comprised the total kindergarten enrollment with the exception of seven children, two of whom were ill while the tests were given, four of whom moved away from Columbus before the testing had been completed, and one for whom satisfactory arrangements for the time the test was to be taken could not be made. Sixteen of the subjects attended the morning sessions and the remaining seventeen the afternoon session.

#### Sex of Subjects

The distribution of the thirty-three subjects according to sex was nineteen boys and fourteen girls. Although the boys are in the majority the girls furnish enough cases to be significant in this study.

#### Nationality of Subjects

All the children tested in this study were American born and spoke only the English language. Considering their remote ancestry, they represented chiefly the English, French, Italian, German, Scotch, and Irish. They are typical of the people found in this part of the country.

Age of Subjects

Since all of the subjects were enrolled in kindergarten, the range in ages is not very large. Table I shows the age in years and months, of each subject.

TABLE I

Ages of the Subjects

Child's Number	Age		Child's Number	Age	
	Years	Months		Years	Months
1	4	10	18	5	6
2	4	11	19	5	7
3	4	11	20	5	7
4	5	0	21	5	8
5	5	0	22	5	8
6	5	1	23	5	8
7	5	2	24	5	8
8	5	3	25	5	9
9	5	3	26	5	10
10	5	4	27	5	10
11	5	4	28	5	10
12	5	4	29	5	11
13	5	5	30	6	0
14	5	5	31	6	1
15	5	5	32	6	2
16	5	6	33	6	10
17	5	6			

Table I shows that the subjects ranged in age from 4 years 10 months to 6 years 10 months. Twenty-seven, or 81.8 per cent of the subjects were between the ages of 5 years and 6 years inclusive. All of the subjects' ages excepting one were between 4 years 10 months, and 6 years 2 months. The average age of the group was 5 years 6 months.

Social Status of Subjects

The social status of the subjects as indicated by the occupation of their fathers was as follows:

Professional . . . . 8	Railway Employee . 1
Day Laborers . . . . 8	Barber . . . . . 1
Salesmen . . . . . 7	Sheriff. . . . . 1
Miners . . . . . 2	County Treasurer . 1
Clerk in Store . . 1	Mechanic . . . . . 1
Rural Mail Carrier 1	Farmer . . . . . 1

This indicates that the subjects were a typical unselected group from the standpoint of social status as indicated by the occupation of the fathers.

### Intelligence of Subjects

The intelligence of the subjects was found by means of the Stanford Revision of the Binet-Simon Intelligence Scale. Table II shows the intelligence quotients and the mental ages of the subjects.

TABLE II

### Intelligence Quotients of the Subjects

Child's Number	I. Q.	Mental Age (Months)	Child's Number	I. Q.	Mental Age (Months)
15	132	82	25	110	76
31	129	94	18	109	72
11	125	80	28	107	75
24	124	84	23	106	72
5	123	74	21	106	72
13	123	80	1	103	70
32	122	90	2	102	60
14	120	78	22	99	67
3	119	70	7	97	60
10	119	76	27	97	68
20	116	78	30	97	70
16	114	75	17	94	62
8	114	72	26	94	66
12	113	72	4	93	56
6	113	68	33	90	74
19	113	76	29	87	62
9	111	70			

Observation of Table II shows that the range of intelligence quotients was from 87 to 132, or 45. The mean was 109.73, the standard deviation 11.83, and the coefficient of variation 10.78. The mental ages range from 94 to 56 months, with a mean of 72.76, a standard deviation of 8.37, and a coefficient of variation of 11.50. It should be remembered that the coefficient of variation gives the percentage that the standard deviation is of the mean score.

Although the distribution according to intelligence is slightly skewed, it is believed that the group as a whole is near enough normal to be satisfactory for this study.

#### Conclusion as to the Nature of the Subjects

This description of the subjects with respect to sex, age, nationality, social status, and intelligence indicates that in general they are a typical normal kindergarten group, and therefore satisfactory for this investigation.

## CHAPTER IV

### TECHNICAL RESEARCH PROCEDURES EMPLOYED

#### Test and Measurement Technique

The nature of this investigation requires certain techniques. Since the problem was mostly a study of individual differences in knowledge of word meaning, the test and measurement technique was the chief one used.

#### Administering the Tests

The method of administering a test is always important, because the validity of the test and measurement technique depends to a great extent on the care and accuracy with which it is used.

All the testing and scoring was done by the same person, the writer, and greatest care was taken to accurately observe all the rules for administering and scoring the tests.

Standardized Test.- It is realized that the proper use of the Stanford Revision of the Binet-Simon Intelligence Scale requires more than a superficial knowledge of the test and of the manner of administering it. The writer, however, since she has had a special course dealing with this test, practice under expert guidance, and later also considerable experience in administering the test, felt justified in using it. In the administering of this intelligence scale the directions given by the author were followed carefully.

The Special Vocabulary Test was administered in a uniform manner to each subject. Before actual testing was begun, sufficient time was taken for getting into rapport with the

child as was done before administering the intelligence scale. Winning the confidence of most of the subjects required very little time since the examiner was personally acquainted with a majority of them.

The test was administered to one subject at a time in a room without such disturbing influences as noise, or the presence of other persons. The words were presented orally to the child in the order given in the lists which, as explained in Chapter I, was determined by the frequency of occurrence in twenty vocabularies, beginning with those occurring most frequently. One list was given at a sitting, since an examination which is too long will cause fatigue.

The allowance of time given by Terman<sup>1</sup> is from twenty-five to thirty minutes for children 3 to 5 years old and from thirty to forty minutes for children averaging 6 to 8 years of age. An average of about thirty minutes was required for one list. A few subjects responded very slowly and hesitatingly, and consequently required an extra sitting. On the other hand several of the quicker subjects responded in such a lively manner that the time required was considerably shorter.

The exact responses of each of the subjects to the 114 words of the test were recorded by the examiner at the time they were given. The test was scored, as to the correct meaning of the words, by the method used for the Intelligence Test of the Stanford Revision of the Binet-Simon Intelligence Scale

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<sup>1</sup>L. M. Terman, The Measurement of Intelligence, p. 127.

as stated in Chapter II. The correct responses were marked "+" and credited with "1", and partially correct responses were marked and credited " $\frac{1}{2}$ ". A wrong response was marked "-" and no credit was given.

The other points studied in this investigation were marked in the space provided on the record blanks. The symbols which were used in this checking, were discussed in Chapter III.

#### Tabular Technique

It was necessary to use the tabular technique in the organization, treatment, and interpretation of the data. Tabulations treating data on the various responses, age, sex, intelligence, and social status were made.

#### Statistical Technique

This study required certain treatment and interpretation of the data. The writer felt justified in using this technique since she has had considerable training in statistics.

The statistical formulae in general use were employed in this investigation. They may be found in the leading texts on statistics or tests and measurements. The main use made of this technique was in finding central tendencies, variability or dispersions, and correlations. All calculations were very carefully made and checked.

## CHAPTER V

### FREE UNRESTRAINED RESPONSES GIVEN BY THE VARIOUS SUBJECTS

#### Introduction

Since the responses given by the subjects are the basis of this study and since they are the original verbatim replies given by the subjects to the stimulus words, it seemed worthwhile to include them in this study. The responses of each subject to each of the 114 words are presented in this chapter.

#### Responses Given By the Subjects

List I

Subject 1

Test Word

Response

ball.....	To bounce up and down.
dinner.....	When you eat dinner.
pick .....	You pick off of something.
don't .....	Don't do nothing to other people.
must .....	I don't know.
pan .....	To cook in.
rest.....	To rest yourself when you are tired.
wagon .....	To haul things.
anybody.....	Someone.
hang .....	To hang someone.
lie.....	Telling a lie.
chew .....	To chew on something.
lemon.....	To eat.
bell .....	They ring them on Christmas.
either.....	I don't know.
matter.....	I don't know.
sidewalk.....	To walk on.
tire.....	It's on a car.
star.....	It is up in the sky.
cozy.....	I don't know.
bun.....	It is to eat.
present.....	To give to someone.
married.....	You marry someone
Dutch .....	I don't know.
single.....	I don't know.
globe.....	A light.
beetle.....	I don't know.
fireman.....	He puts fires out when someone's house burns up.

Test Word

Response

jolly .....	To have fun.
perfume .....	It is to put on your dresses to make them smell good.
leader.....	To lead someone.
sang .....	I don't know.
acre.....	I don't know.
clever .....	I don't know.
drove .....	To drive.
gallant.....	I don't know.
pray .....	To pray to Jesus.
stork.....	It finds little babies and brings them to the doctors.
sling .....	I don't know.
tardy .....	I don't know.
wig .....	To put on your hair.
aside.....	It is on a person.
asylum .....	I don't know.
brilliant.....	I don't know.
coast .....	I don't know.
cooler.....	It is ice that cools things off.
dandruff .....	I don't know.
departure .....	I don't know.
gaze.....	I don't know.
growth .....	I don't know.
hospitable.....	I don't know.
issue .....	I don't know.
program.....	When someone wants to give a program they give it.
locomotive ...	I don't know.
mower .....	To mow your yard.
Saxon.....	I don't know.
spur .....	I don't know.

List II

chair .....	For people to sit in.
nice .....	I don't know.
sweet .....	Sugar. It tastes good.
good-by .....	You say it whenever you are leaving someone's house
money .....	To buy stuff.
string .....	To tie things up with.
sheep .....	Live sheep. They are Jesus' sheep.
feet .....	To walk with.
green .....	It's the color of grass.
yellow .....	Color of a crayon.
bitter .....	It is in pickles.
could .....	I don't know.
sorry .....	It is in pickles.
field ...	Where lots of trees and grass grows.
part .....	I don't know.

<u>Test Word</u>	<u>Response</u>
stem .....	It is on apples.
track .....	For a train to go on.
Friday .....	Today.
noon.....	To eat dinner.
buzz.....	A bumble bee does it.
hip .....	It is on your side.
seen.....	I don't know.
merry.....	Someone's name.
sailboat .....	To sail on water.
awhile.....	A little while.
beach .....	Where you go swimming.
below .....	Under a apartment.
thunderstorm .	When it is raining and the wind blows hard.
offer.....	They let someone else offer your things.
lark .....	I don't know.
reader .....	A book to read out of.
barnyard.....	Where the cows, horses, chickens, and pigs stay.
boiler .....	To boil things in.
despise.....	Spices to eat.
echo .....	I don't know.
harsh.....	When you sing harsh.
native .....	I don't know.
Robert .....	Someone's name.
style .....	I don't know.
travel .....	You are traveling along the road.
aisle .....	I don't know.
anguish .....	When you get angry at someone.
auger .....	I don't know.
bruise .....	A bruised place on you.
column .....	I don't know.
crept .....	When you creep into someone's house.
delay .....	I don't know.
disorder .....	You call over the telephone to buy something.
expression ...	I don't know.
granddaughter.	Your mother's or daddy's granddaughter.
insist .....	I don't know.
jury .....	I don't know.
kindness .....	To be kind to other people.
magnify .....	I don't know.
ranch .....	I don't know.
sneak .....	Sneak into someone's house.
uneasy .....	I don't know.

LIST 1

Response

SUBJECT 2

ball .....	A round ball that you play with.
dinner .....	When you eat your dinner. When you eat at noon.
pick .....	Ice pick.
don't .....	When you musn't do anything.
must .....	When people tell other people not to do anything

<u>Test Word</u>	<u>Response</u>
pan .....	A dish pan. Thing made out of tin.
rest .....	When you are resting.
wagon .....	Something that has wheels, and horses pull it.
anybody .....	Don't anybody do it.
hang .....	When you hang people.
lie .....	When you tell a story to people.
chew .....	I don't know.
lemon .....	A round thing that's sour.
bell .....	Something that you ring.
either .....	Not either one of you.
matter .....	Nothing is the matter.
sidewalk .....	Something made out of bricks.
tire .....	Something that's on cars.
star .....	A bright yellow star up in the sky when it's dark
cozy .....	I don't know.
bun .....	Something like bread.
present .....	A person gives another person a present, some- thing that is real nice.
married .....	One person marries another person.
Dutch .....	A Dutch woman that lives way across the sea.
single .....	When you are single, all by yourself.
globe .....	A light bulb.
beetle .....	An animal.
fireman .....	A man that puts out fires.
jolly .....	When you're glad.
perfume .....	Stuff that smells good.
leader .....	When you are playing soldier, the first one.
sang .....	When you're singing.
acre .....	A great big lot.
clever .....	I don't know.
drove .....	Drive in a car.
gallant .....	Galloping on a horse.
pray .....	When you're praying to heaven.
stork .....	An animal.
sling .....	When you throw a rock.
tardy .....	When you are late to school.
wig .....	I don't know.
aside .....	A side to a barn or a house.
asylum .....	I don't know.
brilliant .....	I don't know.
coast .....	When you're coasting in a car or a wagon.
cooler .....	Cold.
dandruff .....	I don't know.
departure .....	I don't know.
gaze .....	When you are happy and gay.
growth .....	I don't know.
hospitable .....	Hospital.
issue .....	I don't know.
program .....	When you have a program. Something "kinda" like a play.

<u>Test Word</u>	<u>Response</u>
locomotive .....	Animal.
mower.....	Lawn mower.
Saxon .....	Gunny sacks.
spur .....	I don't know.

LIST 2

SUBJECT 2

chair .....	Something you sit down in.
nice .....	When someone's nice to someone else.
sweet .....	When someone's sweet to someone else.
goodby .....	When someone says good-by to someone else and they are going away.
money .....	Something you buy stuff with.
string .....	Something you tie up something with.
sheep.....	Things you get wool off of.
feet .....	That you walk on.
green.....	Something that's green.
yellow.....	Something that's yellow
bitter.....	Something that's bitter, that you don't like.
could .....	You could do something.
sorry.....	You are sorry when you hit people
field.....	A big place where is oats, corn, and wheat.
part .....	When you get part of something.
stem .....	A stem to a dandelion or to a weed.
track .....	A car track or a track you leave where you go.
Friday .....	A day that you go to school.
noon .....	When you get out of school.
buzz .....	When a bee buzzes.
hip .....	Your hip. (pointed to one).
seen .....	When you've seen something.
merry .....	A girl named Mary.
sailboat .....	A boat that sails.
awhile.....	When you want to go some place for awhile.
beach.....	When you're below something.
thunderstorm...	When it's thundering and there's going to be a storm.
offer .....	I don't know.
lark .....	An animal.
reader .....	Someone's book that you read out of.
barnyard .....	Where you keep horses, cows, sheep, and goats.
boiler .....	Pan that you boil things in.
despise .....	I don't know.
eche .....	I don't know.
harsh .....	I don't know.
native.....	I don't know.
Robert .....	A boy named Robert.
style .....	A new style car, buggy or wagon.
travel .....	When someone is traveling somewhere.
aisle.....	Animal.
anguish .....	English.

Test Word

Response

auger.....I don't know.  
 bruise.....A bruised spot on your leg.  
 column.....I don't know.  
 crept.....When someone is crippled.  
 delay.....When someone is laying something down.  
 disorder.....When someone orders something.  
 expression.....When someone has expression on their face.  
 granddaughter....Someone's daughter.  
 insist.....When someone insists to go some place.  
 jury.....I don't know.  
 kindness.....When someone is kind to someone else.  
 magnify.....I don't know.  
 ranch.....That you screw things with.  
 sneak.....When people sneak up on other people.  
 uneasy.....When someone's not easy.

LIST 1

Response

Subject 3

ball.....A round ball. To play with. Throw and catch it.  
 dinner.....Someone is coming to eat with them when we  
                   have dinner.  
 pick.....Woodpeckers pick into a tree to get a worm.  
 don't.....Don't do that.  
 must.....I don't know.  
 pan.....A round thing that has a little bottom in it.  
                   When you want to cook in it you can or you  
                   can make a cake in it.  
 rest.....That you sleep in the afternoon and rest.  
 wagon.....It has four wheels, sides and place to sit in  
                   and a handle.  
 hang.....Hang clothes up to dry or hang someone for  
                   doing naughty things.  
 lie.....To tell a lie. To tell something that is a lie.  
 chew.....To chew my bread up.  
 lemon.....A lemon is sour. It looks like a egg.  
 bell.....Ring a bell to come into school.  
 either.....They get sick and have either.  
 matter.....They say, "What is the matter?".  
 sidewalk.....Made out of cement.  
 tire.....That you put on a car.  
 star.....It has four things on a star.  
 cozy.....It's cold and you have to use a warm coat.  
 bun.....That you wash a car with.  
 present.....What you give someone who has a birthday or  
                   a party.  
 married.....I married a girl.  
 Dutch.....Dutch cleanser.  
 single.....I don't know.  
 globe.....A loaf of bread.  
 beetle.....A needle.  
 fireman.....A fireman goes to put out the fires.

Test Word

Response

jolly .....	I don't know.
perfume .....	That you put on your dresses to make it smell good.
leader .....	A leader of a gang. They are going to war. He has a flag and is holding it up.
sang .....	That they are singing a song.
acorn .....	Acorn.
clever .....	I don't know.
drove .....	That you drove a car somewhere.
gallant .....	That they need gas.
pray .....	That you are praying to God.
stork .....	That you shoot at with bows and arrows.
sling .....	That they sling people around.
tardy .....	That you are tired.
wig .....	A tail.
aside .....	Sometime they lay on their side.
asylum .....	That someone is singing for the king.
brilliant .....	I don't know.
coast .....	That you are coasting down a hill.
cooler .....	That they wear a coat outdoors and they get cooler.
dandruff .....	I don't know.
departure .....	I don't know.
gaze .....	I don't know.
hospitable .....	I don't know.
issue .....	I don't know.
program .....	Having a program for little meeting. A teachers meeting.
locomotive .....	I don't know.
mower .....	It takes the grass off.
Saxon .....	I don't know.
spur .....	I don't know.

LIST 2

Response

subject 3

chair .....	It has a back, and things on the side, and one in the middle and a bottom to sit on.
nice .....	Be nice to children.
sweet .....	Be sweet to people.
good-by .....	Good-by to you. I'll see you again.
money .....	Round money and pieces of paper. Dollar, penny, nickel, and dime.
string .....	It is long and can break.
sheep .....	Has feathers on him.
feet .....	Legs.
green .....	Green leaf.
yellow .....	Yellow chickens.
bitter .....	A thing that you stir things up.
could .....	Could you let me use something
sorry .....	I'm sorry that I hurt you.
field .....	Field with weeds and grass in it.

<u>Test Word</u>	<u>Response</u>
part .....	I broke a toy into a part.
stem .....	A stem is straight on a apple. Sometimes they are "kinda" laying over.
track.....	A train track. It's a long track.
Friday .....	A day.
noon .....	Noon to go to school.
buzz .....	A bud.
hip .....	Side (Pointed to hip).
seen .....	I have seen more things than you have.
merry .....	Married a girl.
sailboat .....	A boat that has two rags or curtains on it so the rain won't go in. It has two things on it.
awhile .....	I don't know.
beach .....	A bean.
below .....	I don't know.
thunderstorm ..	It rains a whole lot.
offer .....	To call them a bad word.
lark .....	A fire.
reader .....	A man that reads books.
barnyard.....	A lot of junk in a barnyard.
boiler .....	A frying pan.
despise .....	To spy on someone.
echo .....	They are going to doctor someone.
harsh .....	I don't know.
native.....	I don't know.
Robert.....	A name of, no a Robert steals stuff. He has a gun.
style.....	A tree that hasn't been all the way off.
travel .....	Take a car and travel all the time.
aisle .....	An aisle has funny wings.
anguish.....	That you are mad at someone.
auger .....	A snake.
bruise.....	That they hurt "theirselves" and made a bruise
column .....	I don't know.
crept .....	I don't know.
delay .....	I don't know.
disorder .....	I don't know.
expression.....	That they help people.
granddaughter..	A daddy.
insist.....	I don't know.
jury .....	That they are selling groceries.
kindness.....	That they like them and go to their house and visit at night.
magnify .....	I don't know.
ranch .....	A home. It is someone else's ranch.
sneak .....	They sneak somewhere.
uneasy.....	They are easy words.

<u>LIST 1</u>	<u>Response</u>	<u>Subject 4</u>
ball .....	What you play with.	

Test Word

Response

dinner .....	When you fix dinner.
pick .....	Pick flowers.
don't .....	When somebody hits you.
must .....	When you mess something up.
pan .....	What you cook things in.
rest .....	When you sit down in a chair and rest.
wagon .....	What you play with.
anybody .....	People.
hang .....	Hang people.
lie .....	When you tell somebody you haven't done any- thing wrong.
chew .....	Chew food.
lemon .....	What you make lemon juice out of.
bell .....	It is red.
either .....	I don't know.
matter .....	I don't know.
sidewalk .....	What you walk on.
tire .....	What you put on cars.
star .....	It is up in the sky.
cozy .....	I don't know.
bun .....	Something that you eat.
present .....	Something you get to play with or some clothing.
married .....	I don't know.
Dutch .....	Charles Ray (brother) is "kinda" Dutch.
single .....	I don't know.
globe .....	A paper.
beetle .....	I don't know.
fireman .....	What you fire people with.
jolly .....	I don't know.
perfume .....	What you put on dresses.
leader .....	It marches in front of people.
sang .....	Sang songs.
acre .....	Farmer's acre. Oats and corn.
clever .....	I don't know.
drove .....	Drive a car.
gallant .....	I don't know.
pray .....	After you are through with songs you pray to Jesus.
stork .....	I don't know.
sling .....	Sling people around.
tardy .....	I don't know.
wig .....	I don't know.
aside .....	I don't know.
asylum .....	I don't know.
brilliant .....	I don't know.
coast .....	I don't know.
cooler .....	When you get cool.
dandruff .....	Sometimes that gets into your hair.
departure .....	I don't know.

<u>Test Word</u>	<u>Response</u>
gaze .....	I don't know.
growth .....	I don't know.
hospitable.....	I don't know.
issue .....	I don't know.
program .....	A play.
locomotive .....	I don't know.
mower .....	A lawn mower, what you mow the lawn with.
Saxon .....	I don't know.
spur .....	I don't know.

<u>LIST 2</u>	<u>Response</u>	<u>Subject 4</u>
chair .....	What you sit in.	
nice .....	To be good.	
sweet .....	Sugar is sweet.	
good-by .....	When you tell people good-by.	
money .....	What you buy clothes and things to eat with.	
string .....	What you tie up bundles with.	
sheep .....	Mr. Trollope has got some sheep out in the pasture.	
feet .....	What you walk on.	
green.....	Green grass.	
yellow .....	Yellow flowers.	
bitter .....	Something that doesn't taste very good.	
could .....	I don't know.	
sorry .....	I don't know.	
field .....	A farmer has oats and things in it.	
part .....	I don't know.	
stem .....	Stem of apples.	
track .....	A railroad track.	
Friday .....	Today.	
noon .....	When men get off from work.	
buzz .....	A bee does that.	
hip .....	A bone (Pointed to her right hip).	
seen .....	When you see people.	
merry .....	A girl's name.	
sailboat .....	What sails on the water.	
awhile .....	Children can go and play somewhere awhile.	
beach .....	I don't know.	
below .....	I don't know.	
thunderstorm ..	When it thunders and rains.	
offer.....	When you offer somebody something.	
lark .....	A bird.	
reader.....	A book.	
barnyard .....	Where you keep chickens and cows.	
boiler .....	A kettle.	
despise .....	I don't know.	
echo .....	I don't know.	
harsh .....	When somebody sings loud.	

<u>Test Word</u>	<u>Response</u>
native.....	I don't know.
Robert .....	A boy.
style .....	Where pigs stay.
travel .....	When you walk some place.
aisle .....	I don't know.
anguish .....	When you get mad at somebody.
auger .....	I don't know.
bruise.....	When you skin somebody.
column .....	I don't know.
crept .....	I don't know.
delay .....	I don't know.
disorder .....	When you order some groceries.
expression .....	I don't know.
granddaughter..	I am my grandma's granddaughter.
insist .....	I don't know.
jury .....	A store. Uncle sent me a ring from the jury store.
kindness .....	When you are kind to some people.
magnify .....	I don't know.
ranch.....	I don't know.
sneak .....	When you sneak into the house and nobody knows it.
uneasy .....	Something that is not very heavy to carry.

<u>LIST 1</u>	<u>Response</u>	<u>Subject 5</u>
ball .....	It's what you play with.	
dinner .....	What you eat.	
pick .....	What you pick ice with.	
don't .....	I don't know.	
must.....	I don't know.	
pan.....	What you fry stuff in.	
rest.....	Rest when you get tired.	
wagon .....	What you play with.	
anybody-.....	There isn't anybody here.	
hang.....	It means when you hang something.	
lie .....	I don't know.	
chew .....	It means when you chew stuff.	
lemon .....	What you make pie with.	
bell.....	What ding dongs when you go to church.	
either.....	I don't know.	
matter .....	When you're mad or something.	
sidewalk .....	It's what you walk on.	
tire .....	What you put on cars.	
star .....	It's what is in the sky.	
cozy .....	I don't know.	
bun .....	What people eat.	
present.....	What you give to people to make them happy.	
married .....	Mary Ellen or something.	
Dutch .....	Duchess.	
single .....	What you put on houses.	

<u>Test Word</u>	<u>Response</u>
globe .....	I don't know.
beetle .....	I don't know.
fireman .....	It's what puts fires out.
jolly .....	I don't know.
perfume .....	What you put on clothes to smell good.
leader .....	What is supposed to be leader when you march.
sang .....	When you sing songs or verses.
acre .....	I don't know.
clever .....	I don't know.
drove .....	I don't know.
gallant .....	When you got a whole gallon of stuff.
pray .....	When you pray to Jesus.
stork .....	What brings babies to you.
sling .....	I don't know.
tardy .....	Tire.
wig .....	I don't know.
aside .....	On peoples' sides.
asylum .....	I don't know.
brilliant .....	I don't know.
coast .....	When you coast wagons.
cooler .....	When stuff is cool.
dandruff .....	I don't know.
departure .....	I don't know.
gaze-.....	I don't know.
growth .....	When stuff grows.
hospitable .....	It means hospital.
issue.....	I don't know.
program .....	What kids invite other kids to.
locomotive .....	I don't know.
mower.....	What mows the garden.
Saxon .....	What you carry stuff in.
spur.....	It's when you put spurs on horses.

LIST 2

Response

Subject 5

chair .....	What you sit in.
nice .....	Light or something else.
sweet.....	It means stuff is sweet.
good-by .....	It means you say good-by when you go some place.
money .....	What you buy stuff with.
string.....	What you tie stuff with.
sheep .....	What you kill.
feet.....	What you walk on.
green .....	It means green.
yellow .....	It means yellow crayons.
bitter .....	It means when stuff is bitter.
could.....	I don't know.
sorry .....	When people are sad.
field .....	What you keep horses in and cows.
part .....	I don't know.
stem .....	A stem of a tree.
track .....	What street cars go on and trains.

<u>Test Word</u>	<u>Response</u>
Friday .....	It's when you know what day it is.
noon .....	When you have to go to school.
buzz .....	When bees buzz.
hip .....	It's your side.
seen .....	I don't know.
merry .....	I don't know.
sailboat .....	What sails.
awhile .....	It means when you rest awhile.
beach .....	I don't know.
below .....	I don't know.
thunderstorm ..	A storm.
offer .....	I don't know.
lark .....	It's what brings babies to you.
reader .....	A book.
barnyard .....	What you walk on.
boiler .....	It's what boils stuff.
despise .....	I don't know.
echo .....	I don't know.
harsh .....	When you sing real harsh.
native .....	I don't know.
Robert .....	Robert Henley.
style .....	It's what people jump over.
travel .....	When you travel along the street.
aisle .....	I don't know.
anguish .....	I don't know.
anger .....	I don't know.
bruise .....	When you bruise your apple or orange.
column .....	I don't know.
crept- .....	I don't know.
delay .....	I don't know.
disorder .....	When you order stuff.
expression .....	I don't know.
granddaughter ..	It's your granddaughter.
insist .....	I don't know.
jury .....	I don't know.
kindness .....	I don't know.
magnify .....	I don't know.
ranch .....	I don't know.
sneak .....	It means when you sneak stuff.
uneasy .....	I don't know.

<u>LIST 1</u>	<u>Response</u>	<u>Subject 6</u>
ball .....	You throw it to somebody.	
dinner .....	We eat. We make something and put it on the table.	
pick .....	Pick the ice.	
don't .....	Don't do it. When somebody does something she shouldn't do, mother says don't do it.	
must .....	Mess up my dress.	
pan .....	Something you bake in.	

Test Word

Response

rest .....	Sit down in a rocking chair.
wagon .....	Something you pull someone in.
anybody .....	I don't know.
hang .....	Hang coats on a hanger.
lie .....	Lie to somebody. It's something you should not do.
chew .....	Sometimes you chew gum.
lemon .....	You open it up and drink it.
bell .....	Something you ding dong with.
either .....	I don't know.
matter .....	I don't know.
sidewalk .....	Something you walk on.
tire .....	Something you put on a car.
star .....	It's way up in the sky and comes at night.
cozy .....	I don't know.
bun .....	Something to eat.
present .....	When somebody has a birthday somebody brings him a present.
married .....	People say they are going up town to get married.
Dutch .....	Dutch girls. Sometimes they sweep the house for you.
single .....	I don't know.
globe .....	I don't know.
beetle .....	I don't know.
fireman .....	When your house is on fire, he comes and puts water on it.
jolly .....	I don't know.
perfume .....	It looks like water.
leader .....	You must follow it.
sang .....	Sing a pretty song.
acre .....	I don't know.
clever .....	I don't know.
drove .....	Drive a car.
gallant .....	Gallant on a horse.
pray .....	Pray to God.
stork .....	I don't know.
sling .....	I don't know.
tardy .....	I don't know.
wig .....	I don't know.
aside .....	Somebody butchers a hog and got you a side off of it.
asylum .....	I don't know.
brilliant .....	I don't know.
coast .....	I don't know.
cooler .....	Cool.
dandruff .....	I don't know.
departure .....	I don't know.
gaze .....	I don't know.
growth .....	I don't know.
hospitable .....	Hospital.
issue .....	I don't know.

Test Word

Response

program .....	When they call somebody to sing a song the girl goes up and sings it.
locomotive ....	I don't know.
mower .....	Mow the yard with. It's got a handle on it.
Saxon .....	I don't know.
spur .....	I don't know.

LIST 2

Response

Subject 6

chair.....	Something to sit in.
nice .....	I don't know.
sweet .....	I don't know.
good-by .....	When somebody leaves they say good-by to the persons.
money .....	Something that you spend.
string .....	Something that you tie up with.
sheep .....	Something that you look after.
feet .....	You walk on feet.
green .....	It means green grass.
yellow.....	Yellow crayon.
bitter .....	Bitter milk.
could .....	I don't know.
sorry .....	When somebody done something they're sorry they done it.
field .....	Daddy works in a field.
part.....	Part your hair.
stem .....	Stem off of a flower.
track .....	A mole's track.
Friday.....	It's a day.
noon.....	Time you eat dinner.
buzz .....	A fly buzzing around you.
hip .....	It's a hip on a lady or a man (pointed to hers).
seen.....	I seen something.
merry .....	Merry Christmas.
sailboat .....	You go a fishing and get in a boat and go out in the water and fish.
awhile .....	I don't know.
beach .....	I don't know.
below .....	I don't know.
thunderstorm ..	A storm.
offer .....	I don't know.
lark .....	I don't know.
reader .....	A book.
barnyard.....	Where you keep cattle.
boiler .....	Something you boil on.
despise .....	I don't know.
eche .....	I don't know.
harsh .....	I don't know.
native .....	I don't know.
Robert.....	They rob somebody.
style .....	When somebody wants to buy dresses they are in style.

<u>Test Word</u>	<u>Response</u>
travel.....	Go to another land.
aisle.....	I don't know.
anguish .....	I don't know.
auger .....	I don't know.
bruise .....	When you hurt yourself it has a bruised place on it.
column .....	I don't know.
crept .....	When somebody's crippled.
delay .....	I don't know.
disorder.....	I don't know.
expression.....	I don't know.
granddaughter..	A daddy.
insist.....	I don't know.
jury .....	I don't know.
kindness.....	I don't know.
magnify .....	I don't know
ranch .....	A house.
sneak .....	Somebody sneaks something.
uneasy .....	I don't know.

<u>LIST 1</u>	<u>Response</u>	<u>Subject 7</u>
ball.....	A thing that you bounce.	
dinner .....	When you eat.	
pick .....	Like a chicken pecks.	
don't.....	When your mother says, don't do a thing.	
must .....	When you muss things up.	
pan .....	What you fry things in.	
rest .....	When you rest. When you go to sleep.	
wagon .....	Thing you ride in.	
anybody .....	When you don't know anyone.	
hang .....	Hang clothes up.	
lie .....	When you tell bad stories.	
chew .....	When you chew gum.	
lemon .....	Yellow thing.	
bell .....	A thing that goes ding dong.	
either .....	I don't know.	
matter .....	It matters.	
sidewalk .....	A thing you walk on.	
tire .....	A thing you drive cars on. A wheel.	
star .....	It's a thing shining up in the sky.	
cozy .....	When you're warm.	
bun .....	Thing you eat.	
present .....	Like when you give a present to mother.	
married.....	When someone gets married.	
Dutch.....	I don't know.	
single .....	I don't know.	
globe .....	I don't know.	
beetle.....	I don't know.	
fireman .....	I don't know.	

<u>Test Word</u>	<u>Response</u>
jolly.....	Be nice to people.
perfume.....	Makes you smell good.
leader .....	When people lead people some place.
sang .....	When you sing songs.
acre .....	I don't know.
clever .....	I don't know.
drove .....	When you have to be drove to do stuff.
gallant .....	I don't know.
pray .....	When you pray to do right.
stork .....	I don't know.
sling .....	I don't know.
tardy .....	When you are late to school.
wig .....	When you have to wear a wig, some hair, and you haven't got any.
asylum.....	I don't know.
aside .....	I don't know.
brilliant.....	I don't know.
coast.....	I don't know.
cooler .....	When you are hot and you want to get cool.
dandruff.....	When you got white stuff on your head.
departure.....	I don't know.
gaze.....	I don't know.
growth .....	I don't know.
hospitable....	I don't know.
issue.....	I don't know.
program .....	When you have a program, "kinda" like a party.
locomotive....	I don't know.
mower.....	I don't know.
Saxon .....	I don't know.
spur .....	I don't know.

LIST 2

Response

Subject 7

chair.....	A thing that you sit on.
nice.....	To be good to each other
sweet.....	I don't know.
good-by .....	When people are going home they say good-by.
money .....	Gold stuff.
string.....	A thing that you tie things with.
sheep.....	Things that say baa ba.
feet .....	Things that you walk on.
green .....	It's stuff like grass.
yellow .....	Stuff like yellow goods.
bitter .....	Stuff that is bitter. It's sour.
could .....	I don't know.
sorry .....	When people cry.
field .....	Way out, far away.
part .....	You should give people part of what you have.
stem .....	It belongs on a tree.
track .....	Where people walk.

Test Word

Response

Friday .....	It's before Saturday.
noon .....	When you eat.
buzz .....	Like a bee goes around and buzzes.
hip .....	It is on your side.
seen .....	See people or see birds.
merry .....	People marry men.
sailboat .....	When you want to go away on water you get into a sailboat.
awhile .....	When you can stay some place awhile.
beach .....	I don't know.
below .....	When you are up high and you want to go down on the ground.
thunderstorm .....	When it rains real hard and thunders.
offer .....	When you give people things.
lark .....	I don't know.
reader .....	When you read out of a book.
barnyard .....	Where a barn is.
boiler .....	A thing that you put clothes in.
despise .....	I don't know.
echo .....	I don't know.
harsh .....	When you don't like people.
native .....	I don't know.
Robert .....	A boy's name.
style .....	I don't know.
travel .....	When you go out "ariding."
aisle .....	I don't know.
anguish .....	When you don't like people.
auger .....	I don't know.
bruise .....	Where you bump against something and you make a bruise.
column .....	I don't know.
crept .....	I don't know.
delay .....	I don't know.
disorder .....	I don't know.
expression .....	I don't know.
granddaughter .....	When you have your granddaughter come to visit.
insist .....	I don't know.
jury .....	I don't know.
kindness .....	Be kind to people.
magnify .....	I don't know.
ranch .....	I don't know.
sneak .....	When you sneak and do things.
uneasy .....	When it's hard to do things.

LIST 1

Response

Subject 8

ball .....	A round ball.
dinner .....	In the afternoons you have dinner. You have something to eat.
pick .....	Pick strawberries.
don't .....	When somebody don't want you to do nothing to

Test Word

Response

say don't.  
must ..... I don't know.  
pan ..... Something you cook in.  
rest ..... Lay down and sleep.  
wagon ..... Horses pull a wagon. It's what you haul corn in  
anybody ..... Nobody in the town. Not anybody.  
hang ..... Hang clothes up.  
lie ..... Lye you put on your garden so the bugs won't  
get on potatoes and things to eat.  
chew ..... That you chew things up when you eat them.  
lemon ..... What you eat and make lemon pie with.  
bell ..... A jingle bell.  
either ..... I don't know.  
matter ..... What's the matter.  
sidewalk ..... Something you walk on.  
tire ..... That you put on a car.  
star ..... It's up in the sky where Jesus is.  
cozy ..... A girl's name.  
bun ..... Something you eat.  
present ..... What somebody gives you for your birthday.  
married ..... Somebody marries each other.  
Dutch ..... A Dutch man, a man not nice. He don't know  
what anything is.  
single ..... I don't know.  
globe ..... Mail. (Joplin Globe)  
beetle ..... I don't know.  
fireman ..... One who fixes fire for us.  
jolly ..... I don't know.  
perfume ..... Stuff you put on your clothes so to make them  
smell good.  
leader ..... That leads folks off some place.  
sang ..... Sang to somebody when they are sick.  
acre ..... A whole place where somebody has a acre.  
clever ..... I don't know.  
drove ..... Drove to Kansas City or Joplin.  
gallant ..... I don't know.  
pray ..... Pray to God.  
stork ..... I don't know.  
sling ..... I don't know.  
tardy ..... Tardy to school.  
wig ..... I don't know.  
aside ..... I don't know.  
asylum ..... I don't know.  
brilliant ..... I don't know.  
coast ..... Coast a wagon.  
cooler ..... Gets cooler.  
dandruff ..... It's in your hair.  
departure ..... I don't know.  
gaze ..... I don't know.  
growth ..... I don't know.

<u>Test Word</u>	<u>Response</u>
hospitable....	Somebody is sick there.
issue.....	I don't know.
program .....	I don't know.
locomotive...	I don't know.
mower .....	You mow the grass with it.
Saxon .....	I don't know.
spur .....	I don't know.

<u>LIST 2</u>	<u>Response</u>	<u>Subject 8</u>
chair .....	A chair has four legs on it, a back, and a bottom on it.	
nice .....	Because people have to be nice to each other.	
sweet .....	Little baby is sweet.	
good-by .....	You wave at somebody.	
money.....	What you buy with.	
string .....	What you wrap things with.	
sheep .....	A lamb is a sheep.	
feet .....	You walk with.	
green .....	Green is grass.	
yellow.....	Yellow is pictures or it means flowers is yellow.	
bitter .....	Grape juice is bitter.	
could .....	I don't know.	
sorry .....	When I hit somebody they are sorry they did it.	
field .....	Where you plant oats and beans and things.	
part .....	Part of a potato.	
stem .....	A long stem of a flower.	
track .....	A track of a horse.	
Friday .....	Means a day.	
noon .....	When you eat dinner.	
buzz .....	A bee is buzzing.	
hip .....	(Pointed to hip) It is your side.	
seen.....	Saw.	
merry .....	Mary had a little lamb.	
sailboat ....	A boat that goes on the water.	
awhile .....	When you are going some place and it isn't time you have to wait awhile.	
beach .....	I don't know.	
below.....	I don't know.	
thunderstorm.	When it is storming real bad.	
offer .....	I don't know.	
lark .....	A bird.	
reader .....	I don't know.	
barnyard.....	A great big place where the cows go.	
boiler .....	What you boil your clothes in.	
despise.....	I don't know.	
echo .....	I don't know.	
harsh .....	It makes harsh in your throat.	
native.....	I don't know.	
Robert .....	A boy.	

Test Word

Response

style .....	I don't know.
travel.....	Traveling on a road.
aisle .....	A little place where you walk through right straight.
anguish .....	I don't know.
auger .....	I don't know.
bruise .....	When you mash your finger it's bruised.
column .....	I don't know.
crept.....	I don't know.
delay .....	I don't know.
disorder .....	I don't know.
expression ....	I don't know.
granddaughter..	Somebody's granddaughter.
insist .....	I don't know.
jury.....	I don't know.
kindness.....	Somebody be kind to each other.
magnify.....	Name of a girl.
ranch .....	I don't know.
sneak .....	Sneak into somebody's house.
uneasy .....	Something that is hard to put up it is easy to do.

LIST 1

Response

Subject 9

ball .....	A round thing. A ball that you throw.
dinner.....	It's to eat.
pick .....	Pick apples.
don't.....	Don't pick up things.
must.....	You must do it.
pan .....	That you eat out of.
rest .....	Rest in the night.
wagon.....	A wagon that you pull.
anybody.....	Anybody would do it.
hang .....	That you swing in.
lie .....	You'll get in jail if you lie.
chew.....	Chew chewing gum.
lemon.....	What you make cakes with.
bell .....	A bell that you ding.
either .....	You may either.
matter .....	I don't know.
sidewalk .....	That you walk on.
tire .....	What you put on a car.
star .....	A star up in the sky.
cozy.....	I don't know.
bun.....	That you eat.
present.....	That somebody gives you at Christmas time.
married .....	You are married.
Dutch .....	That you are Dutch.
single .....	I don't know.
globe .....	A paper that you read. (local)
beetle .....	I don't know.

<u>Test Word</u>	<u>Response</u>
fireman .....	You call the fireman when your house is on fire.
jolly .....	I don't know.
perfume.....	Put it on your dress. It makes you smell good.
leader .....	A leader you choose when they are good in school.
sang .....	I don't know.
acre .....	Acorn. Some corn.
clever .....	I don't know.
drove .....	You are driving.
gallant.....	You may gallop.
pray .....	Pray the Lord.
stork .....	It brings little babies to mammas.
sling .....	I don't know.
tardy .....	I don't know.
wig .....	A thing that you ride.
aside .....	The side you lean over with.
asylum.....	That you may do it.
brilliant .....	I don't know.
coast.....	When you drive too fast you may coast.
cooler .....	When you go outside you get cool.
dandruff.....	I don't know.
departure .....	I don't know.
gaze .....	I don't know.
growth .....	A lady's name.
hospitable.....	A hospital. When you are sick you go to that.
issue .....	I don't know.
program.....	What you give for the people.
locomotive.....	I don't know.
mower .....	A mower that you mow the yard with.
Saxon .....	I don't know.
spur.....	I don't know.

LIST 2

Response

Subject 9

chair .....	A chair you sit in sometime.
nice .....	I don't know.
sweet .....	That you are sweet.
good-by .....	When someone is going somewhere you are saying good-by to them.
money .....	That you get something to eat with.
string .....	That you tie something up with that you get at the store.
sheep .....	Sheep are out on the meadow.
feet .....	That you walk with.
green .....	Green paint. Green color.
yellow .....	Yellow color.
bitter .....	It's bitter.
could .....	I don't know.
sorry.....	That you are sorry sometime.

<u>Test Word</u>	<u>Response</u>
field .....	A field that you eat out of.
part .....	I don't know.
stem .....	Stem of a apple.
track .....	A track some little bunnies made sometime.
Friday .....	A day of the week.
noon .....	Daylight.
buzz .....	Some bees buzz sometime.
hip .....	A part of your leg (pointed to her right hip).
seen .....	You seen something.
merry .....	I don't know.
sailboat .....	A boat that you swim out in the water sometime.
awhile.....	When you go somewhere you tell the people you will be back in awhile.
beach .....	I don't know.
below .....	Below of the sky.
thunderstorm...	When it thunders, it rains, you have a storm.
offer .....	I don't know.
lark .....	A bird.
reader .....	You read a paper sometime.
barnyard .....	A yard that you walk in.
boiler .....	It's to boil clothes in sometime.
despise .....	I don't know.
echo .....	I don't know.
harsh.....	If you sing loud sometime.
native .....	I don't know.
Robert .....	A name of a little boy.
style .....	I don't know.
travel .....	That you travel somewhere. That you are going somewhere else.
zisle .....	I don't know.
anguish .....	I don't know.
auger .....	A kind of a bird.
bruise .....	Have a bruise on your leg. You bump it somewhere.
column .....	I don't know.
crept .....	That you crept sometime.
delay.....	I don't know.
disorder .....	Order that you get at the store. They send it to you.
expression ....	I don't know.
granddaughter..	A granddaughter that you have.
insist .....	I don't know.
jury.....	I don't know.
kindness .....	Kindness that you do sometime.
magnify .....	I don't know.
ranch .....	A ranch that you turn something with. You turn a tire off.
sneak .....	I don't know.
uneasy .....	It's easy.

LIST 1

Response

Subject 10

ball .....	That you play ball with.
dinner.....	When you eat dinner.
pick.....	Pick strawberries or something.
don't .....	Don't break your car up.
must .....	I don't know.
pan .....	That you cook in.
rest .....	When you rest on a lounge.
wagon .....	That you ride in.
anybody .....	I don't know.
hang .....	When you hang your dog.
lie.....	I don't know.
chew .....	When you chew breakfast food.
lemon .....	That you eat.
bell .....	That you ring.
either .....	I don't know.
matter .....	When people get hurt you say, "What's the matter?"
sidewalk.....	That people walk on.
tire.....	That you put on a car.
star.....	A star that policemen have.
cozy .....	I don't know.
bun .....	That you eat.
present .....	People send you a present.
married.....	I don't know.
Dutch.....	I don't know.
single .....	I don't know.
globe .....	I don't know.
beetle.....	I don't know.
fireman .....	That puts fires out.
jolly .....	I don't know.
perfume.....	I don't know.
leader .....	I don't know.
sang .....	When you sing.
acre.....	I don't know.
clever.....	I don't know.
drove.....	Drove a car.
gallant.....	I don't know.
pray .....	When you pray.
stork .....	That brings babies.
sling .....	I don't know.
tardy.....	When you are tardy to school.
wig .....	I don't know.
aside.....	That you cut grass with.
asylum.....	I don't know.
brilliant.....	I don't know.
coast .....	When you coast in a car down hill.
cooler .....	When you cool yourself.
dandruff.....	I don't know.
departure .....	I don't know.
gaze.....	I don't know.

Test Word

Response

growth .....	I don't know.
hospitable.....	Where sick peoples go and have to be operated on.
issue .....	I don't know.
program .....	I don't know.
locomotive .....	I don't know.
mower .....	I don't know.
Saxon .....	I don't know.
spur .....	I don't know.

LIST 2

Response

Subject 10

chair .....	A thing that you sit on.
nice .....	Be nice to people.
sweet .....	I don't know.
good-by .....	Good-by when people go.
money .....	That you buy things with.
string .....	That you tie packages with.
sheep .....	I don't know.
feet .....	That you walk on.
green .....	Crayola that you mark with.
yellow .....	Yellow crayon.
bitter .....	Bitter things.
could .....	I don't know.
sorry .....	You are sorry
field .....	Where you plant stuff.
party .....	Part of the candy for you and the other boy and girl.
stem .....	That the flowers are on.
track .....	That the train runs on.
Friday .....	A day.
noon .....	When you stay to school till noon.
buzz.....	When a butterfly flies around.
hip .....	A hip that's on a cow (pointed to left hip).
seen .....	When people see.
merry .....	I don't know.
sailboat .....	A boat that you ride in and it has a big sail in here.
awhile .....	Wait awhile.
beach .....	I don't know.
below .....	At the bottom of your paper.
thunderstorm...	When it thunders.
offer .....	When you go off.
lark .....	I don't know.
reader .....	A man that reads all the time.
barnyard .....	Where you keep cows.
boiler.....	I don't know.
despise.....	I don't know.
echo .....	I don't know.
harsh .....	A horse.

Test Word

Response

native .....	I don't know.
Robert .....	A boy that is named Robert.
style .....	I don't know.
travel .....	When people travel in a car.
aisle .....	I don't know.
anguish .....	I don't know.
auger .....	I don't know.
bruise .....	I don't know.
column .....	I don't know.
crept .....	I don't know.
delay .....	I don't know.
disorder .....	When you order something.
expression .....	I don't know.
granddaughter .....	I don't know.
insist .....	I don't know.
jury .....	A tool.
kindness .....	I don't know.
magnify .....	I don't know.
ranch .....	I don't know.
sneak .....	Sneak in a door.
uneasy .....	I don't know.

LIST 1

Response

Subject 11.

ball .....	To play with.
dinner .....	To eat.
pick .....	Pick flowers.
don't .....	Don't do it.
must .....	I don't know.
pan .....	To put chicken in to cook.
rest .....	To take a nap.
wagon .....	People on a farm have it and hook horses on it and go to town to get something.
anybody .....	I don't know.
hang .....	Hang up clothes.
lie .....	Say something that is not true.
chew .....	Chew some gum.
lemon .....	It's yellow. To make lemon pie
bell .....	At church they have a bell that rings.
either .....	I don't know.
matter .....	I don't know.
sidewalk .....	To walk on.
tire .....	On a car.
star .....	It's in the night.
cozy .....	I don't know.
bun .....	To eat.
present .....	Santa Claus brings you a present.
married .....	I don't know.
Dutch .....	I don't know.
single .....	I don't know.

<u>Test Word</u>	<u>Response</u>
globe .....	I don't know.
beetle .....	I don't know.
fireman .....	If there's a house on fire he drives a fire truck to put out the fire.
jolly .....	I don't know.
perfume .....	To put on a suit or dress to make you smell good.
leader .....	In a parade there has to be a leader to lead the ones who are in it.
sang .....	Sing a song.
acre .....	Acorn.
clever .....	I don't know.
drove .....	Drove a car.
gallant .....	I don't know.
pray .....	Pray to God.
stork .....	I don't know.
sling .....	I don't know.
tardy .....	You're tardy for school, you're going to be late for school.
wig .....	Dress up like a boy or girl and put it on your head.
aside .....	I don't know.
asylum .....	I don't know.
brilliant .....	I don't know.
coast .....	Coast down a hill in a wagon.
cooler .....	I don't know.
dandruff .....	I don't know.
departure .....	I don't know.
gaze .....	I don't know.
growth .....	I don't know.
hospitable .....	Hospital.
issue .....	I don't know.
program .....	People go to it to sing and do other things.
locomotive .....	I don't know.
mower .....	To mow the grass.
Saxon .....	I don't know.
spur .....	I don't know.

<u>LIST 2</u>	<u>Response</u>	<u>Subject 11</u>
chair .....	To sit in.	
nice .....	Be nice to other people.	
sweet .....	I don't know.	
good-by .....	Say good-by to somebody.	
money .....	To buy things.	
string .....	To tie something up.	
sheep .....	If you live on a farm you have to have them.	
feet .....	To walk on.	
green .....	Green color crayon.	
yellow .....	Yellow color crayon.	
bitter .....	I don't know.	
could .....	I don't know.	

Test Word

Response

sorry ..... You hit somebody and you're sorry you hit him.  
field ..... It has something planted in it.  
part ..... I don't know.  
stem ..... It's on a flower.  
track ..... When it snows somebody goes in it and you  
see it.  
Friday ..... A day.  
noon ..... It means when it's getting dark.  
buzz ..... I don't know.  
hip ..... Right on your side (pointed to hip).  
seen ..... I don't know.  
merry ..... I don't know.  
sailboat ..... I don't know.  
awhile ..... I don't know.  
beach ..... I don't know.  
below ..... Something is real low.  
thunderstorm .. It storms.  
offer ..... I don't know.  
lark ..... Meadow lark.  
reader ..... Someone reads a book.  
barnyard ..... There are whole lots of things in it.  
boiler ..... I don't know.  
despise ..... Someone does something that your mother doesn't  
want you to do and she says it.  
echo ..... I don't know.  
harsh ..... Sing real loud.  
native ..... I don't know.  
Robert ..... Boy's name.  
style ..... I don't know.  
travel ..... You walk a long ways.  
aisle ..... Something in a dance hall.  
anguish ..... Real mad.  
auger ..... I don't know.  
bruise ..... Something's brown on your leg because you fell  
down.  
column ..... I don't know.  
crept ..... I don't know.  
delay ..... I don't know.  
disorder ..... Someone takes something to you.  
expression ..... I don't know.  
granddaughter.. A little girl.  
insist ..... I don't know.  
jury ..... Some heads.  
kindness ..... You're kind to somebody.  
magnify ..... I don't know.  
ranch ..... To make something.  
sneak ..... To sneak out of the house or something.  
uneasy ..... You do something that's real easy.

LIST 1

Response

Subject 12

ball.....	What you bounce.
dinner .....	When you're eating dinner.
pick.....	When you're going on a picnic.
don't .....	When you don't do nothing.
must.....	I don't know.
pan.....	What you carry things in.
rest.....	When you lay down.
wagon .....	What you ride in.
anybody .....	When there's nobody.
hang .....	When you hang a rope.
lie .....	When you lie down.
chew.....	When you chew some chewing gum.
lemon .....	A lemon drop.
bell .....	What you ring.
either.....	When you don't do either one.
matter .....	When something's the matter.
sidewalk.....	What you walk on.
tire .....	It's on your car.
star.....	It's up in the sky.
cozy.....	When you're lazy.
bun .....	What you eat.
present.....	When you give someone a present.
married.....	When you get married.
Dutch .....	When you call each other Dutch.
single .....	I don't know.
globe .....	I don't know.
beetle.....	I don't know.
fireman .....	Who puts out fire.
jolly .....	When you're happy
perfume.....	What you put on your clothes and sometimes you can put it on your hair.
leader.....	When you play "Follow the Leader" and someone yells out they are leader.
sang .....	When you are singing songs.
acre .....	Acorn,
clever .....	I don't know.
drove.....	When you're driving a car.
gallant.....	I don't know.
pray .....	When you're saying your prayer.
stork .....	I don't know.
sling .....	I don't know.
tardy.....	When you come to school and you're late.
wig .....	I don't know.
aside .....	You take one side.
asylum.....	I don't know.
brilliant.....	I don't know.
coast .....	When you're coasting down hills.
cooler.....	When it's getting cooler. When it's real cold and gets colder.
dandruff.....	I don't know.
departure.....	A park.

<u>Test Word</u>	<u>Response</u>
gaze .....	I don't know.
growth .....	When something grows out of the ground.
hospitable.....	When someone is sick and has to go to the hospital.
issue .....	I don't know.
program .....	When you have a program. A whole bunch of kids are in it.
locomotive.....	I don't know.
mower .....	A lawn mower. What cuts grass.
Saxon .....	Sacks to put something in.
spur.....	I don't know.

<u>LIST 2</u>	<u>Response</u>	<u>Subject 12</u>
chair .....	What you sit on.	
nice.....	Be nice to each other.	
sweet .....	I don't know.	
good-by.....	I'm going some place.	
money .....	Round things.	
string .....	White string. To tie packages.	
sheep .....	To get wool off of.	
feet .....	To walk with.	
green .....	Apples.	
yellow.....	They are yellow apples.	
bitter .....	I don't know.	
could .....	Could not do nothing.	
sorry.....	I'm sorry I hit someone.	
field.....	Where there's lots of weeds and grass.	
part.....	Part of something.	
stem .....	Stem of a apple.	
track .....	A car track.	
Friday.....	A day.	
noon .....	When you stay at home.	
buzz.....	When a bumble bee goes buzz.	
hip.....	Your leg (pointed to left hip).	
seen .....	What water is in.	
merry.....	I don't know.	
sailboat .....	A boat.	
awhile.....	I don't know.	
beach .....	A great big round red thing.	
below.....	Below something.	
thunderstorm...	Blows down trees and houses.	
offer.....	I don't know.	
reader .....	A book	
lark.....	I don't know.	
barnyard .....	A great big yard.	
boiler .....	What you put water in and then put your clothes in.	
despise .....	I don't know.	
echo.....	I don't know.	

Test Word

Response

harsh.....	I don't know.
native .....	I don't know.
Robert .....	Robber.
style .....	A style. When you have a style on your eye.
travel .....	I don't know.
aisle .....	Hoot owl.
anguish.....	When you are mad at each other.
anger .....	A bear.
bruise.....	When you got a sore on your knee.
column.....	I don't know.
crept .....	I don't know.
delay .....	Laying down.
disorder.....	When you order your groceries.
expression.....	When you take expression lessons.
granddaughter..	A daughter.
insist.....	I don't know.
jury .....	I don't know.
kindness .....	When you are good and kind to each other.
magnify.....	When you find something.
ranch .....	What you screw bolts with.
sneak.....	When you sneak up on each other.
uneasy .....	When you make something that's easy.

LIST 1

Response

Subject 13

ball.....	When you play ball you throw it to each other.
dinner .....	When you eat dinner.
pick.....	Pick flowers.
don't .....	When you don't do something you are supposed to.
must.....	You must not do it.
pan .....	What you cook in.
rest .....	When you lay down and rest.
wagon .....	What you haul dirt in.
anybody.....	Nobody.
hang .....	Hang your coat up.
lie .....	When you tell something and you tell a lie.
chew .....	Chew some meat.
lemon .....	What you make lemonade out of.
bell.....	What you ring.
either.....	Put ether on your face in a hospital and make you go to sleep.
matter .....	When there's something the matter.
sidewalk .....	What you walk on.
tire .....	What you put on a car.
star.....	What shines in the sky.
cozy.....	When its cold in bed and you get all warm.
bun .....	What you eat and put butter on.
present .....	What somebody gives to you.
married .....	When somebody marries somebody else.
Dutch.....	Little Dutch boys and girls.

Test Word

Response

single ..... Something what is single.  
 globe ..... A light globe.  
 beetle ..... Some kind of a bug.  
 fireman ..... Somebody what puts out a fire.  
 jolly ..... When you're happy.  
 perfume ..... What you put on yourself. Smells good.  
 leader..... Leader of something, of a band.  
 sang ..... I don't know.  
 acorn..... Acorn.  
 clever ..... When you are clever and happy.  
 drove ..... When you drive a car.  
 gallant ..... Horses. Hear foot taps.  
 pray..... When you pray to God.  
 stork ..... What bring babies.  
 sling ..... Something what you shoot.  
 tardy..... When you are late to school.  
 wig ..... What they used to wear a long long time ago.  
 aside ..... A side of a horse.  
 asylum..... What you put wheat in. A great tall thing.  
 brilliant ..... I don't know.  
 coast..... When you coast on a sled.  
 cooler ..... When it gets cool in the evening.  
 dandruff ..... I don't know.  
 departure..... I don't know.  
 gaze ..... I don't know.  
 growth ..... When you are kinda naughty.  
 hospitable ..... Where you take people.  
 issue ..... I don't know.  
 program ..... A kind of a little show.  
 locomotive..... A locomotive train.  
 mower ..... What you mow your yard with.  
 Saxon..... I don't know.  
 spur..... I don't know.

LIST 2

Response

Subject 13

chair ..... Something what you sit in.  
 nice ..... When you play nice.  
 sweet..... You like somebody.  
 good-by..... You are going somewhere.  
 money ..... What you buy things with.  
 string..... You drink when you get thirsty.  
 sheep ..... Baa sheep.  
 feet ..... What you walk on.  
 green ..... Grass.  
 yellow ..... Sun.  
 bitter ..... When you get a walnut and crack it and eat  
                   the shell it's bitter.  
 could..... I don't know.  
 sorry..... Sorry when you hit somebody.  
 field ..... Where a farmer is planting something.

<u>Test Word</u>	<u>Response</u>
part.....	Park, what you play in.
stem.....	A stem of a flower.
track.....	Railroad track.
Friday.....	A day when we come to school.
noon.....	When it's dinner time.
buzz.....	A bee buzzing.
hip.....	A hip on somebody (pointed to left hip).
seen.....	When you are up on a hill and you see way down like a prairie scene.
merry.....	When you marry somebody.
sailboat.....	What you sail in the water.
awhile.....	I don't know.
beach.....	Down by a river.
below.....	I don't know.
thunderstorm...	When it rains, thunders and lightnings.
offer.....	Offer things to each other.
lark.....	A bird.
reader.....	Somebody that can read.
barnyard.....	Where there is green grass and where chickens eat.
boiler.....	A kettle.
despise.....	Despise somebody.
echo.....	When you yell to somebody and then you hear your own voice.
harsh.....	I don't know.
native.....	Black people.
Robert.....	Robert Sears.
style.....	Big fence.
travel.....	When somebody travels across the country.
aisle.....	I don't know.
anguish.....	Angry.
auger.....	I don't know.
bruise.....	When somebody gets bruised on their knee.
column.....	I don't know.
crept.....	I don't know.
delay.....	I don't know.
disorder.....	When somebody keeps their money.
expression.....	I don't know.
granddaughter..	A girl.
insist.....	I don't know.
jury.....	Where somebody keeps their money.
kindness.....	When you be kind to somebody.
magnify.....	When you have a magnifying glass.
ranch.....	Where somebody lives. A log cabin out by a river.
sneak.....	When you sneak something when nobody don't know. it.
uneasy.....	When you don't feel good. When you don't do anything.

LIST 1

Response

Subject 14

ball .....	What you throw up in the air and catch.
dinner .....	Lunch, eat vegetables and food.
pick .....	Ice pick. A thing with sharp point on it.
don't .....	Somebody might hit you and you say "don't."
must .....	Something in a bottle.
pan .....	What you put stuff that you eat in.
rest .....	Sit down and rest.
wagon .....	Something to pull you in.
anybody .....	That you are not anybody.
hang .....	To hang somebody.
lie .....	To lie.
chew .....	You chew gum.
lemon.....	What you put in cakes.
bell .....	Something that rings.
either .....	It means you can't either.
matter.....	It don't matter.
sidewalk.....	What you walk on.
tire .....	What belongs on cars.
star.....	What stays up in the sky and makes light when it gets dark.
cozy .....	Something might be close to the tree.
bun .....	Something that you eat.
present.....	Something for people.
married.....	I don't know.
Dutch.....	Something like Dutch people.
single .....	I don't know.
globe .....	Something for a light.
beetle.....	I don't know.
fireman.....	Some kind of a man that puts out fires.
jolly.....	A jolly man.
perfume .....	What you put on your hands. Something like water.
leader.....	A leader of men. It's some kind of a man.
sang .....	Singing.
acre .....	Acorn.
clever.....	I don't know.
drove.....	Like drove a car.
gallant .....	Gallop on a pony.
pray.....	Pray to God.
stork.....	Some kind of a animal. A bird.
sling.....	Sling a rock.
tardy.....	Tardy when you come to school.
wig.....	I don't know.
aside .....	On the side of you.
asylum .....	I don't know.
brilliant .....	I don't know.
coast .....	Coast a skooter.
cooler.....	I don't know.
dandruff .....	I don't know.

Test Word

Response

departure.....	Some kind of a man.
gaze .....	I don't know.
growth .....	I don't know.
hospitable.....	I don't know.
issue .....	I don't know.
program.....	Some kind of a little dinner.
locomotive.....	I don't know.
mower .....	Lawn mower. Something that cuts grass.
Saxon .....	I don't know.
spur.....	Some kind of a bird.

LIST 2

Response

Subject 14

chair .....	What you sit on.
nice .....	Be nice to your mother.
sweet .....	Sweet food.
good-bye.....	Say good-bye to somebody.
money .....	What you buy stuff with.
string .....	What you make kites out of.
sheep .....	Little baby cows.
feet .....	What you walk on.
green .....	Like green grass or you color a picture green.
yellow.....	Yellow thread.
bitter .....	Butter milk.
could .....	That you must be good.
sorry.....	I'm sorry at you.
field .....	A big yard. A field with trees.
part .....	Break something to part.
stem .....	Off of a tree. A piece of wood.
track.....	A railroad track.
Friday .....	A day.
noon .....	In the afternoon.
buzz .....	That something flies.
hip.....	Hip of people, (pointed to right hip).
seen .....	Seen something.
merry .....	Somebody's name.
sailboat .....	A boat or ship.
awhile .....	That it's some kind of a animal.
beach .....	Some kind of fruit.
below.....	Close to the ground. Make yourself be low.
thunderstorm..	It makes noise when it is going to rain.
offer .....	That it is some kind of an animal.
lark .....	Some kind of a bird.
reader .....	A book.
barnyard.....	Some kind of a yard with a fence around it.
boiler.....	A pan,
despise.....	I don't know.
echo .....	I don't know.
harsh.....	Some kind of a cat or dog.
native .....	I don't know.
Robert .....	A man that works in a store.

Test Word

Response

style .....	What you put horses in.
travel .....	You ride in a car when you travel.
aisle .....	A thing that sits up in a tree.
anguish .....	Somebody is angry.
anger .....	I don't know.
bruise .....	I don't know.
column .....	A flower.
crept .....	I don't know.
delay .....	I don't know.
disorder .....	Order some groceries.
expression .....	I don't know.
granddaughter ..	Some kind of a girl.
insist .....	I don't know.
jury .....	I don't know.
kindness .....	Be kind.
magnify .....	I don't know.
ranch .....	I don't know.
sneak .....	Sneak in the house.
uneasy .....	Be easy.

LIST 1

Response

Subject 15

ball .....	A ball that you throw and play ball with.
dinner .....	When someone eats.
pick .....	When someone gets picked.
don't .....	Don't do.
must .....	When there's a muss.
pan .....	What you bake things in, pies.
rest .....	When someone rests.
wagon .....	What they haul corn in.
anybody .....	When there's nobody.
hang .....	When someone's hanged.
lie .....	I don't know.
chew .....	When someone chews something.
lemon .....	What you eat.
bell .....	What you ring.
either .....	I don't know.
matter .....	I don't know.
sidewalk .....	What you walk on.
tire .....	What you roll.
star .....	What is up in the sky at night.
cozy .....	When there's a "clozy."
bun .....	A bunny.
present .....	What someone sends to someone else.
married .....	I know one name but I don't know the rest.
Dutch .....	When there's a Dutchman.
single .....	I don't know.
globe .....	A light.
beetle .....	I don't know.
fireman .....	A man that comes down and puts the fire out.

Test Word

Response

jolly .....	A jolly old fellow. When Santa Claus is jolly.
perfume .....	What your mother puts on you.
leader .....	When someone leads.
sang .....	When someone sang.
acre .....	A acorn.
clever .....	I don't know.
drove .....	When someone drives a car.
gallant .....	When a horse gallops.
pray .....	When someone prays.
stork .....	I don't know.
sling .....	I don't know.
taray .....	When someone is late to school.
wig .....	I don't know.
aside .....	I don't know.
asylum .....	I don't know.
brilliant.....	I don't know.
coast .....	I don't know.
cooler.....	When it's cool.
dandruff.....	I don't know.
departure.....	I don't know.
gaze .....	I don't know.
growth .....	I don't know.
hospitable.....	When there's a hospital.
issue .....	I don't know.
program.....	When there is a program and a lot of people come.
locomotive ....	I don't know.
mower .....	What mows the grass.
Saxon .....	When somebody says, "sacked him up".
spur .....	I don't know.

LIST 2

Response

Subject 15

chair .....	One of those (pointed to one).
nice.....	When they are happy.
sweet.....	When something is sweet that you eat.
good-by .....	When someone is going away.
money .....	Little round things.
string .....	Little long things.
sheep .....	What eat grass.
feet .....	Cows and sheep walk with them.
green .....	When something is green. One of your crayons.
yellow .....	One of your crayons.
bitter .....	I don't know.
could .....	I don't know.
sorry .....	When someone's hurt and someone says I'm sorry.
field .....	A big field that has oats or corn or wheat in it.
part .....	When somebody parts with their car.
stem.....	What something grows on.
track .....	Railroad track what street cars run on.
Friday .....	Some day.

<u>Test Word</u>	<u>Response</u>
noon .....	When it's at noon.
buzz .....	When a bee's buzzing.
hip .....	(Pointed to side).
seen .....	I don't know.
merry .....	I don't know.
sailboat.....	What sails on water.
awhile .....	When something's awhile, in a little while.
beach.....	I don't know.
below.....	When something is low.
thunderstorm ..	I don't know.
offer .....	I don't know.
lark .....	A larkspur.
reader.....	A book.
barnyard.....	A yard where cows walk.
boiler.....	What boils.
despise .....	I don't know.
echo .....	I don't know.
harsh.....	I don't know.
native.....	I don't know.
Robert.....	Roberts (grocery store).
style.....	When somebody's crippled.
travel .....	When someone is running.
aisle.....	A rock.
anguish.....	When someone is anguish, (angry).
bruise .....	When someone is bruising, doing something.
column .....	I don't know.
crept.....	I don't know.
delay .....	I don't know.
disorder.....	When someone orders something.
expression.....	I don't know.
granddaughter..	When someone has a daughter.
insist.....	When someone insists.
jury .....	Where there is big woods up high.
kindness .....	When someone is kindness.
magnify.....	I don't know.
ranch .....	A tool.
sneak.....	When someone sneaks.
uneasy.....	When someone makes something easy.

LIST 1

Response

Subject 16

ball .....	What you roll.
dinner.....	What you eat.
pick.....	Pick ice.
don't.....	Not to do things that other people tell you.
must .....	Must do things that mother and daddy tell you.
pan .....	What you cook in.
rest .....	When you lay down.
wagon .....	What you can pull people in.
anybody .....	I don't know.

Test Word

Response

hang .....	When you hang people when they're bad.
lie .....	When little boys tell lies, stories.
chew .....	When you chew gum.
lemon.....	What you eat.
bell.....	What you ring.
either .....	Either you or I.
matter.....	It don't matter or it does matter.
sidewalk.....	What you walk on.
tire.....	What you put on a car. Little kids can roll it.
star .....	What shines in the night.
cozy.....	Cozy and warm. When you put on a coat.
bun .....	A biscuit.
present .....	Nice.
married.....	When you're married.
Dutch.....	Dutch people.
single.....	I don't know.
globe .....	A light.
beetle.....	A needle.
fireman.....	What they put out fire with.
jolly .....	Jolly and gay.
perfume.....	What you put on your clothes.
leader.....	What they lead people with.
sang .....	When they sing.
acre.....	Acorn.
clever.....	I don't know.
drove.....	Drive a car.
gallant .....	I don't know.
pray.....	Pray on the piano.
stork.....	I don't know.
sling .....	Sling a ball.
tardy.....	Come to school tardy, when you are late to school.
wig .....	When you wink your eye.
aside .....	On the side of your car.
asylum.....	I don't know.
brilliant.....	Brilliantine.
coast .....	When you coast a box car.
cooler.....	When you get cooler and cooler when the wind comes on you.
dandruff .....	I don't know.
departure.....	I don't know.
gaze.....	I don't know.
growth.....	I don't know.
hospitable.....	A hospital.
issue .....	I don't know.
program.....	When all the kids have to come to school.
locomotive.....	A car.
mower.....	What you mow grass with.
Saxon .....	I don't know.
spur .....	I don't know.

LIST 2

Response

Subject 16

chair .....	What you sit down in.
nice .....	When you're real nice.
sweet .....	When you're sweet.
good-by.....	Good-by.
money .....	What you buy stuff with.
string .....	What you tie things up with when you are going to send a present.
sheep .....	What you can eat.
feet .....	What you can walk with.
green .....	When it's green--green grass.
yellow .....	Yellow pencil.
bitter .....	What you don't like and you spit out.
could.....	When you put on a cap.
sorry.....	Sorry that they"done"something.
field .....	I don't know.
part .....	When they are apart.
stem .....	Stem of a flower.
track .....	What a street car goes on.
Friday .....	When it's Friday and you don't have to go to school.
noon.....	When the kindergarten gets out.
buzz .....	A bee.
hip .....	A ship.
seen .....	I seen something.
merry .....	When someone is married to each other.
sailboat .....	What sails on the water.
awhile .....	For a little while.
beach .....	Reach.
below .....	When you are below something.
thunderstorm..	When it thunders.
offer .....	When you offer someone something.
lark .....	A cork.
reader.....	A reader book.
barnyard.....	Where you get wood.
boiler .....	What you boil water in.
despise .....	Play "I spise".
echo .....	I don't know.
harsh .....	A lot of bitter hearts.
native .....	I don't know.
Robert.....	I don't know.
style.....	When you see the style up in the sky.
travel .....	When you travel on the road, when you sell stuff.
aisle .....	Hoot owl.
anguish.....	I don't know.
auger .....	I don't know.
bruise.....	When you bruise your leg.
column.....	I don't know.
crept.....	Creep through the house.
delay.....	I don't know.

<u>Test Word</u>	<u>Response</u>
disorder .....	When you order something from the store.
expression.....	I don't know.
granddaughter..	Your granddaughter.
insist .....	I don't know.
jury .....	What you got (jewelry).
kindness .....	When you're kind to each other.
magnify .....	I don't know.
ranch.....	What you fix cars with.
sneak.....	When you sneak away and steal.
uneasy .....	Easy to do.

<u>LIST 1</u>	<u>Response</u>	<u>Subject 17</u>
ball.....	You knock it with a bat.	
dinner .....	What you eat.	
pick .....	Go to picnic.	
don't.....	I don't know.	
must .....	I don't know.	
pan .....	To take stickers out of your finger.	
rest .....	Policemen rest people. Robbers come and rob people.	
wagon .....	A horse pulls a wagon. It has wheels.	
anybody .....	I don't know.	
hang .....	When somebody runs over a boy they hang him.	
lie .....	Tell lies to kids.	
chew.....	To chew chewing gum.	
lemon .....	You make lemon for a drink out of lemon.	
bell .....	You ring on a phone.	
either .....	I don't know.	
matter .....	I don't know.	
sidewalk .....	You walk on.	
tire .....	A tire goes on a car, underneath.	
star .....	Up in the sky.	
cozy .....	I don't know.	
bun .....	What you eat.	
present .....	What Santa Claus brings you.	
married .....	I don't know.	
Dutch .....	When anybody is Dutchy, they can't talk plain.	
single .....	Boards come off the house.	
globe .....	I don't know.	
beetle.....	A beetle-shooter. You go down.	
fireman .....	Who puts fire out.	
jolly .....	I don't know.	
perfume .....	What you put on your shirt when you go some-where	
leader .....	A leader in a army. He tells them where to go and to march.	
sang .....	I don't know.	
acre .....	Acorn.	
clever.....	Clabber milk.	
drove .....	A car drove into the yard.	

Test Word

Response

gallant.....I don't know.  
 pray.....Pray to Jesus so he'll take us to heaven.  
 stork.....Storks take boys away.  
 sling.....I don't know.  
 tardy.....Go to a party.  
 wig.....I don't know.  
 aside.....A sidewalk.  
 asylum.....I don't know.  
 brilliant.....I don't know.  
 coast.....Means get on a wagon and coast on a walk.  
 cooler.....When summer comes it means it's getting cooler.  
 dandruff.....I don't know.  
 departure.....I don't know.  
 gaze.....I don't know.  
 growth.....I don't know.  
 hospitable.....Where somebody is sick. A hospital.  
 issue.....I don't know.  
 program.....A program. You go to it.  
 locomotive.....I don't know.  
 mower.....I don't know.  
 Saxon.....I don't know.  
 spur.....A spur a cowboy has on him, on his leg.

LIST 2

Response

Subject 17

chair.....It has legs. For somebody to sit in.  
 nice.....Knife to cut bread with.  
 sweet.....Everybody is sweet.  
 good-by.....Go off.  
 money.....I don't know.  
 string.....When you cut yourself you put a rag over it  
                     and tie it.  
 sheep.....Sheep on the farm.  
 feet.....To walk on.  
 green.....Grass. Color a paper.  
 yellow.....Color on a paper.  
 bitter.....Butter.  
 could.....I don't know.  
 sorry.....Everybody feels sorry.  
 field.....Big place for calves horses and sheeps.  
 part.....Where water is at.  
 stem.....Apples' stems. A stem that goes into the apple..  
 track.....Where trains go on.  
 Friday.....I don't know.  
 noon.....When we get out from school.  
 buzz.....Bus.  
 hip.....I don't know.  
 seen.....I don't know.  
 merry.....I don't know.  
 sailboat.....A thing that has big sails on top.

<u>Test Word</u>	<u>Response</u>
awhile .....	I don't know.
beach .....	A red-thing you eat.
below .....	I don't know.
thunderstorm...	Rain and lightening.
offer .....	A policeman.
lark .....	I don't know.
reader .....	A reader comes and writes things out doors on the porch.
barnyard .....	Where calves are.
boiler .....	To cook things in.
despise .....	Spider.
echo .....	I don't know.
harsh .....	I don't know.
native .....	I don't know.
Robert .....	A store (Roberts' Grocery Store).
style .....	I don't know.
travel .....	A car goes fast.
aisle .....	Owl that comes in the dark.
anguish .....	Everybody is mean.
auger .....	I don't know.
bruise .....	Apple bruise. It's bad on the bruise.
column .....	I don't know.
crept .....	Mouse trap.
delay .....	I don't know.
disorder .....	A postman gets it and takes it to the train.
expression .....	A depot.
granddaughter..	A daughter.
insist .....	I don't know.
jury .....	A town.
kindness .....	Everybody is kind to people.
magnify .....	I don't know.
ranch .....	A thing a man works with.
sneak .....	Somebody sneaks in the house.
uneasy .....	Everybody is uneasy because somebody is going away. My mother is uneasy when I go away in a car.

LIST 1

Response

Subject 18

ball .....	You throw it.
dinner .....	That you eat.
pick .....	To pick nuts out of a shell.
don't .....	Don't do something your mamma don't want you to do.
must .....	You must do something.
pan .....	Thing that you cook things in.
rest .....	Get in bed and go to sleep.
wagon .....	A thing that you get in and make it go with your foot.
anybody .....	I don't know.
hang .....	Put clothes on hanger and hang them up.

Test Word

Response

lie .....	When your mamma tells you not say something and you say you won't but do it anyway.
chew .....	Chew gum or meat (showed how).
lemon .....	A yellow thing you squeeze the juice out.
bell .....	That you ring.
either .....	I don't know.
matter .....	I don't know.
sidewalk .....	To walk on.
tire .....	You put it on a car.
star .....	It makes light. It is up in the sky.
cozy .....	I don't know.
bun .....	You eat it.
present .....	Something that somebody gets you.
married .....	I don't know.
Dutch .....	I don't know.
single .....	I don't know.
globe .....	I don't know.
beetle .....	I don't know.
fireman .....	A man who gets in a fire truck and puts out fires.
jolly .....	I don't know.
perfume .....	You put it on clothes.
leader .....	You march and the leader is a man in the front.
sang .....	You sing something.
acre .....	I don't know.
clever .....	I don't know.
drove .....	You drove a horse.
gallant .....	I don't know.
pray .....	Pray to Jesus.
stork .....	I don't know.
sling .....	I don't know.
tardy .....	I don't know.
wig .....	Piggy-wig.
aside .....	I don't know.
asylum .....	I don't know.
brilliant .....	I don't know.
coast .....	You coast in a wagon or someone coasts you.
cooler .....	You get drinks out of it.
dandruff .....	I don't know.
departure .....	I don't know.
gaze .....	I don't know.
growth .....	I don't know.
hospitable .....	I don't know.
issue .....	I don't know.
program .....	Something you learn and have somebody come down and hear it.
locomotive .....	I don't know.
mower .....	You mow grass.
Saxon .....	I don't know.
spur .....	I don't know.

LIST 2

Response

Subject 18

chair.....	That you sit in.
nice.....	You do things that your mamma wants you to do.
good-by.....	When you say good-by to people when it's time to go home.
money.....	It is round. To buy milk with.
string.....	A white string.
sheep.....	They are white.
feet.....	I don't know.
green.....	Something is green.
yellow.....	Yellow crayola.
bitter.....	I don't know.
could.....	I don't know.
sorry.....	If you hurt somebody.
field.....	Where you keep horses.
part.....	I don't know.
stem.....	A stem that comes off of trees or leaves.
track.....	Railroad track.
Friday.....	A day.
noon.....	After your daddy comes home from work it is noon.
buzz.....	I don't know.
hip.....	I don't know.
seen.....	Seen something.
merry.....	I don't know.
sailboat.....	A boat with a sail.
awhile.....	Somebody or a wolf is wild.
beach.....	I don't know.
below.....	I don't know.
thunderstorm...	It thunders and rains.
offer.....	You give somebody something.
lark.....	I don't know.
reader.....	Somebody reads.
barnyard.....	Where you keep chickens.
boiler.....	I don't know.
despise.....	I don't know.
echo.....	I don't know.
harsh.....	I don't know.
native.....	I don't know.
Robert.....	Somebody's name.
style.....	A pig pen.
travel.....	You go somewhere.
aisle.....	I don't know.
anguish.....	Don't know, unless somebody is angry.
auger.....	I don't know.
bruise.....	Might be somebody's name.
column.....	I don't know.
crept.....	I don't know.
delay.....	I don't know.

<u>Test Word</u>	<u>Response</u>
disorder.....	I don't know.
expression.....	I don't know.
granddaughter...	Your grandmother.
insist.....	I don't know.
jury.....	I don't know.
kindness.....	You are kind to somebody.
magnify.....	I don't know.
ranch.....	I don't know.
sneak.....	You sneak in somebody's house and get something.
uneasy.....	I don't know.

<u>LIST 1</u>	<u>Response</u>	<u>Subject 19</u>
ball.....	Thing to play with.	
dinner.....	To eat.	
pick.....	Pick flowers.	
don't.....	Don't do that or don't go out doors.	
must.....	You must go out doors or something like that.	
pan.....	To put water in.	
rest.....	To lay down or sit in some chairs.	
wagon.....	To ride in or to hitch up horses to it and haul coal or anything.	
anybody.....	Anybody here.	
hang.....	Hang up clothes.	
lie.....	Tell a lie. It's a big joke or something.	
chew.....	Chew something to eat or something like that.	
lemon.....	To make lemonade. You squeeze it out.	
bell.....	To ring.	
either.....	Either we go outdoors or something like that.	
matter.....	It don't matter.	
sidewalk.....	To walk on.	
tire.....	To put on cars or on a scooter.	
star.....	What shines at night time.	
cozy.....	I don't know.	
bun.....	I don't know.	
present.....	Dress, handkerchief, vase, or something like that.	
married.....	Get married.	
Dutch.....	Dutchman.	
single.....	Single thing.	
globe.....	A light or city light. Sister told me.	
beetle.....	I don't know.	
fireman.....	He puts out fires in houses or anything catches on fire.	
jolly.....	All kinds of jolly people and animals.	
perfume.....	To put on your handkerchief and smell of.	
leader.....	To lead out of something.	
sang.....	Sang a song.	
acre.....	I don't know.	

<u>Test Word</u>	<u>Response</u>
clever.....	I don't know.
drove.....	Drove a car.
gallant.....	I don't know.
pray.....	Pray the Lord. Verses or prayers.
stork.....	A bird.
sling.....	I don't know.
tardy.....	Tardy to school.
wig.....	Wig on some hair.
aside.....	Lay on your side or something like that.
asylum.....	Clear off in the ocean some place.
brilliant.....	I don't know.
coast.....	Coast in a wagon.
cooler.....	To get cooled off.
dandruff.....	I don't know.
departure.....	I don't know.
gaze.....	I don't know.
growth.....	I don't know.
hospitable.....	Hospital or something like that.
issue.....	I don't know.
program.....	Songs, music, or something like that.
locomotive....	I don't know.
mower.....	Lawn mower.
Saxon.....	I don't know.
spur.....	I don't know.

LIST 2

Response

Subject 19

chair.....	To sit in.
nice.....	Keep nice.
sweet.....	You are sweet or something sweet to eat.
good-by.....	Going somewhere or going home.
money.....	Things that you pay people.
string.....	To fly kites with or something like that.
sheep.....	They are lambs or things that have wool.
feet.....	Things you have on your legs. Above your legs.
green.....	Pretty or color.
yellow.....	Pretty or color.
bitter.....	Bitter medicine.
could.....	I don't know.
sorry.....	You are sorry that you done something.
field.....	What you have wheat in. Plant something in it. Have a garden in a field.
part.....	Part of it.
stem.....	Stem of a flower or a leaf.
track.....	What a train goes on.
Friday.....	Days or something like that.
noon.....	Afternoon.
buzz.....	Scare you or something like that.
hip.....	Bones (pointed to side) or it is your side.
seen.....	Seen people.
marry.....	Get married.

Test Word

Response

sailboat.....	To sail on river.
awhile.....	I don't know.
beach.....	Out in the woods.
below.....	I don't know.
thunderstorm....	It thunders and rains.
offer.....	I don't know.
lark.....	A bird.
reader.....	A book.
barnyard.....	Where a barn is or it's to play in.
boiler.....	I don't know.
despise.....	Surprise or something like that.
echo.....	I don't know.
harsh.....	I don't know.
native.....	I don't know.
Robert.....	A boy.
style.....	I don't know.
travel.....	To travel somewhere.
aisle.....	I don't know.
anguish.....	I don't know.
anger.....	Angry.
bruise.....	A scar or kind of a black and blue thing.
column.....	I don't know.
crept.....	I don't know.
delay.....	I don't know.
disorder.....	I don't know.
expression.....	I don't know.
granddaughter...	A friend.
insist.....	I don't know.
jury.....	Nails and tacks.
kindness.....	Be kind to people.
magnify.....	I don't know.
ranch.....	I don't know.
sneak.....	Be sneaking in and steal.
uneasy.....	I don't know.

LIST 1

Response

Subject 20

ball.....	A foot-ball. It's round; it's to play with.
dinner.....	Helps you grow. It's stuff to eat.
pick.....	Pick roots out of the ground.
don't.....	Don't do it.
must.....	I don't know.
pan.....	To cook stuff in.
rest.....	Rest to work.
wagon.....	So little boys can play in it and big people can take things in it they can't carry.
anybody.....	Not anybody.
hang.....	Hanging people or pigs.
lie.....	Lying down.
chew.....	Chewing something to eat or gum.
lemon.....	Lemonade.

<u>Test Word</u>	<u>Response</u>
bell .....	Goes ding dong.
either.....	I don't know.
matter .....	I don't know.
sidewalk.....	People can walk on.
tire .....	To put on cars so they won't make so much noise.
star.....	A star for night. Jesus puts it out.
cozy .....	I don't know.
bun .....	A bun to eat.
present.....	A present to make somebody happy.
married.....	Marrying people.
Dutch .....	I don't know.
single .....	A single that people yell out when they have a file ball or something like that.
globe.....	The globe paper for people to look at and get in the morning. (Local paper).
beetle.....	A beeney-club.
fireman.....	To put out fires on houses.
jolly .....	I don't know.
perfume.....	To make people happy.
leader.....	To lead people.
sang .....	Sang a song.
acre .....	It drops on people's head sometime from a tree.
clever.....	Clapping hands together.
drove.....	Drove in a car.
gallant.....	A horse galloping.
pray.....	Praying to Jesus.
stork .....	I don't know.
sling .....	For people to sling on.
tardy.....	Teeter-totter.
wig .....	People are weak.
aside .....	Aside for houses.
asylum.....	To put corn and stuff in.
brilliant.....	I don't know.
coast .....	Coasting in a wagon, bike or a car.
cooler.....	Outdoors it is getting cooler.
dandruff.....	I don't know.
departure .....	Parking cars.
gaze .....	I don't know.
growth .....	I don't know.
hospitable ....	When somebody is sick or hurt.
issue .....	I don't know.
program .....	You show a story or something like that.
locomotive.....	A car.
mower.....	To cut grass.
Saxon .....	To carry stuff in.
spur .....	I don't know.

LIST 2

Response

Subject 20

chair ..... To sit in.

Test Word

Response

nice .....	Nice to people.
sweet .....	Something. Sweet milk.
good-by.....	Good-by to grandma or somebody.
money.....	To buy stuff to eat.
string.....	To tie sacks up or meat in some paper.
sheep.....	Little lambs.
feet.....	To walk on.
green .....	To eat. You cook it.
yellow.....	Yellow crayola.
bitter.....	Bitten somebody.
could .....	Could go some place.
sorry.....	Sorry that she hit somebody.
field.....	A field to put sheep or cows or horses in it.
part .....	Farting your hair.
stem .....	A stem to flowers or something.
track.....	A track a train can go on.
Friday .....	A day.
noon .....	This afternoon.
buzz .....	A bee buzzing stinging somebody.
hip.....	I don't know.
merry .....	I don't know.
seen.....	Ceiling.
sailboat .....	To sail in when you are out in the river.
awhile.....	Staying some place for awhile.
beach.....	A peach - or I don't know.
below.....	Something below here.
thunderstorm...	It means it's going to rain and storm.
offer .....	A office.
lark.....	A little piece of board.
reader.....	A book to read.
barnyard.....	A barnyard for cows and things.
boiler.....	To boil something.
despise.....	Spying something.
echo.....	I don't know.
harsh .....	Hard. A cough.
native.....	I don't know.
Robert.....	Robert Henley.
style .....	I don't know.
travel .....	Traveling some place to camp or hunting for somebody.
aisle .....	A side that you put corn and stuff in.
anguish .....	Angry, you won't answer.
auger.....	I don't know.
bruise .....	Burning, something bruising that you are cooking.
column.....	Collar.
crept .....	I don't know.
delay .....	I don't know.
disorder .....	I don't know.
expression.....	I don't know.
granddaughter..	A daughter for people. You have a grandmother.
insist .....	I don't know.
jury.....	I don't know.

<u>Test Word</u>	<u>Response.</u>
kindness.....	Kind to people.
magnify.....	A magnify you put it on your hand and you can see the hand through the glass.
ranch .....	To work, to work on something.
sneak.....	Sneak up on somebody.
uneasy.....	I don't know.

<u>LIST 1</u>	<u>Response</u>	<u>Subject 21</u>
ball.....	For to bounce.	
dinner.....	To eat.	
pick.....	Pick your tooth.	
don't.....	Don't do nothing.	
must .....	Puff.	
pan.....	To cook in.	
rest.....	To rest on a bed.	
wagon.....	Horses and man carry hay in it and haul stuff in it.	
anybody.....	I don't know.	
hang .....	Hang up your clothes.	
lie .....	I don't know.	
chew.....	Chew food.	
lemon.....	Lemonade.	
bell.....	That will ring.	
either.....	I don't know.	
matter.....	I don't know.	
sidewalk.....	That you walk on.	
tire .....	That you put on cars.	
star.....	It is up in the sky. It is for a light in the night.	
cozy .....	Coat.	
bun .....	You eat it.	
present.....	When you have a birthday party.	
married.....	Married people.	
Dutch .....	Dutch boy.	
single .....	I don't know.	
globe.....	That you light.	
beetle.....	I don't know.	
fireman.....	He puts out fires when houses are on fire.	
jolly.....	Jelly.	
perfume .....	That you wave hair with.	
leader.....	One is the leader when you march.	
sang.....	Sing.	
acre .....	Acorn.	
clever .....	I don't know.	
drove .....	I don't know.	
gallant.....	I don't know.	
pray.....	Pray to God.	
stork.....	A cork.	
sling.....	Sling balls.	

<u>Test Word</u>	<u>Response</u>
tardy.....	I don't know.
wig .....	I don't know.
aside .....	I don't know.
asylum.....	I don't know.
brilliant.....	Brick.
coast .....	Wagons that have big sheets on top.
cooler.....	Ice man cools ice.
dandruff.....	I don't know.
departure.....	I don't know.
gaze .....	I don't know.
growth.....	I don't know.
hospitable.....	People who get sick go there.
issue .....	Shoe.
program .....	That people come to when we have a program.
locomotive.....	A motor car.
mower .....	That you cut grass with.
Saxon .....	That you put apples and potatoes in.
spur.....	I don't know.

<u>LIST 2</u>	<u>Response</u>	<u>Subject 21</u>
chair .....	That you sit in.	
nice.....	To be nice.	
sweet.....	Something is sweet.	
good-by .....	Say good-by to people.	
money.....	That you buy stuff with.	
string.....	That you tie a balloon to.	
sheep .....	A lane.	
feet .....	That you walk on.	
green.....	Green dress.	
yellow .....	Yellow. Something that is yellow.	
bitter .....	Butter.	
could.....	I don't know.	
sorry .....	I don't know.	
field.....	You put cows and horses in it.	
part .....	Park cars.	
stem.....	Stem of a flower.	
track.....	A railroad track.	
Friday.....	I don't know.	
noon .....	This afternoon.	
buzz .....	A bee.	
hip .....	(Pointed to side) hip.	
seen .....	I don't know.	
merry .....	Mary Lamb.	
sailboat .....	What rides out on the water	
awhile .....	I don't know.	
beach .....	Beet.	
below.....	I don't know.	
thunderstorm...	A hard storm.	
offer .....	I don't know.	

<u>Test Word</u>	<u>Response</u>
lark .....	I don't know.
reader.....	Read out of books.
barnyard.....	Where there are barns.
boiler .....	I don't know.
despise.....	Spice.
echo.....	I don't know.
harsh .....	They talk too loud.
native.....	"Mata" (tomato)
Robert.....	Robert Henley.
style.....	Pasture.
travel.....	I don't know.
aisle .....	I don't know.
anguish.....	You are hungry.
auger.....	Hog.
bruise.....	Bruise somebody on the hand or something.
column.....	Collar.
crept.....	Feet is making noise.
delay.....	Chickens lay eggs.
disorder.....	I don't know.
expression.....	I don't know.
granddaughter..	Some peoples granddaughter.
insist.....	I don't know.
jury.....	I don't know.
kindness.....	I don't know.
magnify.....	I don't know.
ranch.....	Branch of a tree.
sneak .....	Sneak in somebody's house.
uneasy .....	I don't know.

<u>LIST 1</u>	<u>Response</u>	<u>Subject 22</u>
ball.....	A round ball that you play with.	
dinner .....	That's when you eat.	
pick.....	Tooth-pick.	
don't.....	Don't do this.	
must .....	Mussed your hair up.	
pan.....	That you cook things in.	
rest .....	Lay down.	
wagon.....	That you ride in.	
anybody .....	Not anybody.	
hang.....	Hanging clothes up.	
lie .....	Lie down.	
chew .....	Chew gum.	
lemon .....	That you can eat.	
bell.....	That you ring.	
either.....	I don't know.	
matter.....	It don't matter.	
sidewalk.....	To walk on.	
tire .....	That you roll cars on.	
star.....	A star of a night.	
cozy.....	I don't know.	
bun .....	That you eat.	

<u>Test Word</u>	<u>Response</u>
present.....	If it's something to play with you play with it.
married.....	You marry a man.
Dutch .....	I don't know.
single.....	I don't know.
globe .....	A paper.
beetle.....	A beet.
fireman.....	A man that makes the fires go out.
jolly.....	I don't know.
perfume .....	To put on your dresses.
leader.....	Leader of the children.
sang .....	Singing.
acre .....	Acorn.
clever .....	Smooth.
drove .....	Driving.
gallant.....	I don't know.
pray .....	Praying to Jesus.
stork .....	I don't know.
sling .....	Sling them up in the air.
tardy.....	Late.
wig .....	I don't know.
aside .....	I don't know.
asylum .....	A jail.
brilliant.....	I don't know.
coast .....	Coast a car.
cooler.....	Fresh air.
dandruff.....	Dandruff in your hair.
departure .....	I don't know.
gaze .....	I don't know.
growth .....	Grow.
hospitable.....	Hospital.
issue .....	I don't know.
program.....	A play.
locomotive.....	I don't know.
mower.....	Lawn mower to mow the grass.
Saxon .....	I don't know.
spur.....	I don't know.

LIST 2

Response

Subject 22.

chair .....	That you sit in.
nice .....	Be nice.
sweet .....	Be sweet and nice to one another.
good-by .....	Good-by to people.
money .....	That you spend.
string .....	That you tie things with.
sheep .....	That you eat.
feet.....	That you walk on.
green.....	Green onion.
yellow.....	Yellow paint.
bitter .....	I don't know.

<u>Test Word</u>	<u>Response</u>
could .....	You could go over to somebody's.
sorry .....	I don't know.
field .....	That you work in.
part .....	I don't know.
stem .....	Stem of a apple.
track .....	Track that somebody has walked on.
Friday.....	I don't know.
noon .....	Noon for dinner.
buzz .....	Fly fast. Go this way (made buzzing noise).
hip .....	Hip of people.
seen .....	Seam up your dresses.
merry .....	Mary had a little lamb.
sailboat.....	What you sail in.
awhile .....	A little while.
beach .....	I don't know.
below .....	Down low.
thunderstorm ..	It storms real hard.
offer.....	I don't know.
lark .....	A flower.
reader .....	That you read out of.
barnyard.....	A barn.
boiler .....	What you boil clothes in.
despise.....	That you don't like people.
echo .....	I don't know.
harsh .....	I don't know.
native.....	I don't know.
Robert.....	Robert Henley.
style .....	You are in style.
travel.....	Travel away from here.
aisle.....	That you walk through.
anguish .....	Angry.
auger .....	I don't know.
bruise .....	A name.
column .....	I don't know.
crept .....	I don't know.
delay .....	I don't know.
disorder.....	Order.
expression ....	That you learn pieces and things.
granddaughter..	A granddaughter of grandmas.
insist.....	You insist for them to go.
jury.....	I don't know.
kindness .....	You are kind to everyone.
magnify .....	You talk over.
ranch.....	I don't know.
sneak.....	Sneak away.
uneasy .....	It's easy.

LIST 1

Response

Subject 23

ball..... You hit it.

Test Word

Response

dinner.....	When you eat.
pick .....	I don't know.
don't.....	I don't know.
must .....	I don't know.
pan .....	You bake cakes in.
rest .....	Rest somebody.
wagon .....	You pull it.
anybody.....	I don't know.
hang .....	Hang clothes.
lie .....	Lions.
chew.....	I don't know.
lemon .....	You make lemonade.
bell.....	Rings on a church.
either.....	I don't know.
matter.....	I don't know.
sidewalk.....	You walk on.
tire.....	You put on a wheel of cars.
star.....	It's up in the sky.
cozy.....	I don't know.
bun.....	I don't know.
present.....	Santa Claus brings you.
married.....	I don't know.
Dutch.....	I don't know.
single .....	I don't know.
globe .....	I don't know.
beetle.....	I don't know.
fireman.....	He waters the houses where a fire gets on them.
jolly .....	I don't know.
perfume.....	To put on your shirt.
leader.....	Leader of the flag.
sang .....	I don't know.
acre .....	Acorn nut.
clever .....	I don't know.
grove.....	I don't know.
gallant .....	Galloped horse.
pray.....	I don't know.
stork.....	I don't know.
sling .....	I don't know.
tardy.....	Tardy when you miss school.
wig .....	What a pig puts on him.
aside .....	I don't know.
asylum .....	I don't know.
brilliant .....	I don't know.
coast .....	Coast a horse.
cooler.....	I don't know.
dandruff .....	I don't know.
departure.....	Dandelion.
gaze.....	I don't know.
growth.....	I don't know.
hospitable.....	A hospital.
issue .....	I don't know.

<u>Test Word</u>	<u>Response</u>
program .....	Some kind of a "doings".
locomotive ....	I don't know.
mower .....	You mow the yard.
Saxon .....	I don't know.
spur .....	I don't know.

LIST 2

Response

Subject 23

chair .....	What you sit down in.
nice .....	I don't know.
sweet .....	Boys and girls are sweet.
good-by .....	Good-by to you.
money .....	For men.
string .....	You put it across.
sheep .....	I don't know.
feet .....	What you have on your legs.
green.....	Color.
yellow .....	Color.
bitter .....	I don't know.
could .....	I don't know.
sorry.....	Be sorry.
field .....	I don't know.
part .....	I don't know.
part .....	I don't know.
stem .....	Stem on a tree.
track .....	What a train goes on.
Friday .....	The days.
noon .....	When girls and boys go home.
buzz .....	A fly flies around.
hip .....	I don't know.
seen .....	I don't know.
merry .....	I don't know.
sailboat .....	Sails on the water.
awhile .....	I don't know.
beach .....	I don't know.
below.....	I don't know.
thunderstorm...	It rains.
offer .....	I don't know.
lark .....	I don't know.
reader .....	When you read your lessons.
barnyard .....	I don't know.
boiler.....	You cook in it.
despise.....	I don't know.
echo.....	I don't know.
harsh .....	I don't know.
native.....	I don't know.
Robert.....	Robert Sears.
style .....	I don't know.
travel.....	Travel the world.
aisle .....	I don't know.

<u>Test Word</u>	<u>Response</u>
anguish.....	I don't know.
anger .....	I don't know.
bruise.....	Bruise your leg.
column .....	I don't know.
crept.....	You're crippled.
delay.....	I don't know.
disorder .....	I don't know.
expression.....	I don't know.
granddaughter..	Your folks.
insist.....	I don't know.
jury.....	Jury is up town.
kindness.....	You're kind to them.
magnify.....	I don't know.
ranch.....	I don't know.
sneak .....	I don't know.
uneasy.....	I don't know.

<u>LIST 1</u>	<u>Response</u>	<u>Subject 24</u>
ball.....	What you throw up in the air.	
dinner .....	It means that you eat dinner.	
pick.....	It means you pick flowers.	
don't.....	I don't know.	
must .....	You must do things.	
pan .....	What you fry things in.	
rest.....	It means you rest people.	
wagon .....	To hook on the horses.	
anybody.....	I don't know.	
hang .....	That you hang people.	
lie.....	It means that you lie.	
chew.....	It means that you chew chewing gum.	
lemon .....	It's what you eat. Take the juice out of it.	
bell.....	What rings.	
either .....	I don't know.	
matter .....	What is the matter?	
sidewalk.....	What you walk on.	
tire .....	What you put on a car.	
star .....	What is up in the sky.	
cozy .....	I don't know.	
bun .....	A bunny.	
present .....	A pair of beads or something. What you bring to little kids.	
married .....	That you marry.	
Dutch .....	I don't know.	
single.....	A rich man.	
globe .....	What brings you papers.	
beetle .....	I don't know.	
fireman.....	Makes fires out.	
jolly.....	I don't know.	
perfume.....	To put on your dresses.	
leader .....	What the kids follow.	
sang .....	It means that you sing.	

Test Word

Response

acre .....	Acorn.
clever.....	I don't know.
drove.....	It means that you drive.
gallant.....	I don't know.
pray.....	It means that you pray to God.
stork.....	He brings babies to you.
sling.....	When you sling a rock.
tardy .....	Tar.
wig .....	What you put on a doll's head.
aside.....	It means that your side hurts.
asylum .....	I don't know.
brilliant .....	I don't know.
coast.....	I don't know.
cooler.....	It means that you get cooler.
dandruff.....	It is in your hair. It's white.
departure.....	I don't know.
gaze.....	A gate.
growth .....	I don't know.
hospitable ....	It means that you have been doctored on.
issue.....	I don't know.
program .....	Little children hear it.
locomotive.....	I don't know.
mower.....	What you mow grass with.
Saxon .....	I don't know.
spur .....	I don't know.

LIST 2

Response

Subject 24

chair.....	To set the table with. What you sit on.
nice .....	I don't know.
sweet.....	Sweet milk.
good-by .....	To wave your hand.
money.....	What you buy things with.
string.....	White. You tear it.
sheep.....	Little lamb.
feet .....	I've got feet. Means walk.
green.....	Trees are getting green.
yellow.....	Flowers are getting yellow.
bitter.....	Milk is bitter.
could .....	I don't know.
sorry.....	You did something bad and you are sorry.
field.....	Wheat.
part.....	Park.
stem .....	Off of a flower.
track .....	Railroad track.
Friday.....	Fry a chicken.
noon .....	That daddy goes to work.
buzz .....	Bugs.
hip .....	Hip on your arm.
seen .....	I don't know.

Test Word

Response

merry.....	God's mamma.
sailboat.....	It sails in the water.
awhile .....	Quiet.
beach .....	Peach.
below .....	Way down.
thunderstorm...	It means it thunders.
offer.....	Office.
lark.....	I don't know.
reader.....	A man who reads.
barnyard.....	Has chickens and cows.
boiler.....	Cooker.
despise.....	People don't like kids.
echo.....	When you holler. I hollered in the house and then I heard something say "yes sir" also.
harsh.....	Horses.
native.....	Measure.
Robert.....	Robin.
style.....	A pin.
travel.....	When you go to Kansas City or Arizona or some place.
aisle.....	Owl.
anguish.....	I don't know.
auger.....	I don't know.
bruise.....	Means you have got a bruise on your head.
column .....	Car.
crept .....	Kept.
delay.....	I don't know.
disorder.....	I don't know.
expression.....	I don't know.
granddaughter..	A girl that somebody has.
insist.....	I don't know.
jury.....	I don't know.
kindness.....	That you are kind.
magnify.....	I don't know.
ranch .....	Trash.
sneak.....	Means to sneak into things.
uneasy.....	I don't know.

LIST 1

Response

Subject 25

ball.....	What you play with.
dinner.....	What you eat.
pick .....	Pick nuts. Pick with what you pick ice.
don't .....	Don't bother things.
must.....	Muss things up.
pan .....	What you cook in.
rest.....	Rest people in the ground when they do some- thing mean.
wagon .....	What you pull boys in.
anybody.....	I don't know.

Test Word

Response

hang.....	Hang people when they rob someone.
lie.....	You tell a story. You tell a lie.
chew .....	Chew"chew-gum"
lemon.....	What you make lemonade out of.
bell .....	What you ring.
either.....	What you take in the hospital.
matter.....	It means what is the matter.
sidewalk.....	What you walk on.
tire.....	What you put on cars.
star .....	What is in the sky.
cozy.....	I don't know.
bun.....	What you eat.
present .....	What you get for Christmas.
married.....	I don't know.
Dutch .....	Dutchmen.
single.....	A single one.
globe .....	What you turn the lights on.
beetle.....	I don't know.
fireman.....	When houses catch fire he squirts water on them.
jolly.....	I don't know.
perfume .....	What you put on your dress to make it smell sweet
leader .....	What marches in front.
sang .....	I don't know.
acre.....	I don't know.
clever .....	September.
drove .....	Drove up with a car.
gallant.....	I don't know.
pray .....	Pray to Jesus.
stork .....	I don't know.
sling.....	I don't know.
tardy .....	It means you are getting tired.
wig.....	I don't know.
aside .....	I don't know.
asylum .....	I don't know.
brilliant .....	I don't know.
coast.....	Coast a wagon.
cooler.....	It means gets cool and cooler.
dandruff.....	I don't know.
departure.....	I don't know.
gaze.....	I don't know.
growth .....	I don't know.
hospitable.....	It means you are in a hospital.
issue .....	You.
program.....	Means you have a program.
locomotive.....	A motor.
mower .....	A lawn mower.
Saxon.....	A sack.
spur.....	I don't know.

LIST 2

Response

Subject 25

chair .....	To sit in.
nice .....	Be good.
sweet.....	It means you are sweet.
good-by .....	Say good-by to people.
money .....	What you buy things with.
string .....	What you tie things with.
sheep .....	Sheep, what they watch.
feet .....	Meat, what they eat.
green .....	Tells the colors.
yellow.....	Tells the colors too.
bitter .....	You bit someone.
could .....	Means would.
sorry .....	I feel sorry.
field .....	Get pumpkins out of.
part .....	Part your hair.
stem .....	Off of a leaf or pretty flower.
track.....	Railroad track that trains go on.
Friday.....	That tells a name of a day.
noon .....	It means noon when I come home.
buzz .....	A bug.
hip .....	What you put your hand on. (Pointed to his hip)
seen.....	You seen a boy or something.
merry.....	Name of a doll or girl.
sailboat .....	It takes people on a trip. It sails.
awhile.....	It means wait a little while.
beach .....	A peach.
below.....	Down under.
thunderstorm...	When it rains.
offer .....	Often.
lark.....	I don't know.
reader .....	What you read in school.
barnyard.....	To put coal in.
boiler .....	What you wash in.
despise .....	Means you are mean.
echo.....	I don't know.
harsh .....	I don't know.
native .....	I don't know.
Robert .....	Rob money.
style.....	Stick.
travel .....	To go somewhere.
aisle .....	Owl up in a tree.
anguish .....	Angry.
auger.....	I don't know.
bruise.....	Home brew.
column .....	I don't know.
crept.....	I don't know.
delay.....	I don't know.
disorder.....	I don't know.
expression ....	I don't know.
granddaughter..	My grandpa.

<u>Test Word</u>	<u>Response</u>
insist .....	Your sister.
jury .....	I don't know.
kindness .....	Be kind to everybody.
magnify.....	I don't know.
ranch .....	What you work with.
sneak.....	Sneak in and get your mamma's things.
uneasy .....	Go easy.

<u>LIST 1</u>	<u>Response</u>	<u>Subject 26</u>
ball .....	What you throw.	
dinner .....	Eat.	
pick .....	To pick stuff.	
don't .....	I don't know.	
must .....	Muss your clothes.	
pan .....	What you wash your hands and face in.	
rest .....	Rest in a chair.	
wagon .....	What you ride in.	
anybody.....	Nobody.	
hang .....	Hang meat.	
lie .....	What you put on the floor to wash the floor.	
chew .....	"Chew-gum."	
lemon .....	What you eat.	
bell .....	What you ring.	
either .....	I don't know.	
matter .....	I don't know.	
sidewalk .....	What you walk on.	
tire .....	What you put on cars.	
star .....	What you put on paper.	
cozy .....	I don't know.	
bun .....	Rabbit.	
present.....	What you give to mamma.	
married.....	That you marry.	
Dutch .....	I don't know.	
single .....	I don't know.	
globe .....	A flower.	
beetle .....	I don't know.	
fireman .....	I don't know.	
jolly.....	I don't know.	
perfume.....	What you put on your handkerchief.	
leader .....	What you march with.	
sang .....	I don't know.	
acre.....	I don't know.	
clever .....	I don't know.	
drove.....	You drove a car.	
gallant .....	I don't know.	
pray.....	Pray for people.	
stork.....	I don't know.	
sling.....	I don't know.	
tardy.....	Tardy at school.	

Test Word

Response

wig .....	I don't know.
aside.....	I don't know.
asylum.....	I don't know.
brilliant .....	I don't know.
coast .....	Coast a wagon.
cooler .....	I don't know.
dandruff.....	I don't know.
departure.....	Your partner.
gaze .....	I don't know.
growth .....	I don't know.
hospitable.....	I don't know.
issue .....	I don't know.
program .....	What you play with little children.
locomotive.....	I don't know.
mower.....	I don't know.
Saxon.....	I don't know.
spur .....	I don't know.

LIST 2

Response

Subject 26

chair .....	What you sit on.
nice .....	Be nice to children.
sweet.....	Fruit is sweet.
good-by.....	I don't know.
money .....	What you buy things with.
string .....	What you tie towels with.
sheep .....	What you get wool off of.
feet .....	What you walk on.
green.....	What you make pictures.
yellow.....	What you make pictures.
bitter.....	Something bitter.
could .....	I don't know.
sorry.....	What you hurt little children.
field .....	Where you get stuff at, wheat.
part .....	I don't know.
stem .....	What mother whips children with.
track.....	What trains go on.
Friday .....	When school is out.
noon.....	I don't know.
buzz .....	Sting.
hip .....	(Pointed to his right hip).
seen .....	I don't know.
merry .....	Marry somebody.
sailboat.....	What you sail on.
awhile .....	I don't know.
beach.....	I don't know.
below.....	What you blow. Balloon.
thunderstorm...	I don't know.
offer .....	I don't know.
lark.....	I don't know.

Test Word

Response

reader.....What you read.  
 barnyard.....What you put horses in.  
 boiler.....I don't know.  
 despise.....I don't know.  
 echo.....I don't know.  
 harsh.....I don't know.  
 native.....I don't know.  
 Robert.....Where you buy stuff.  
 style.....I don't know.  
 travel.....What you travel.  
 aisle.....I don't know.  
 anguish.....I don't know.  
 auger.....I don't know.  
 bruise.....You bruise stuff.  
 column.....I don't know.  
 crept.....I don't know.  
 delay.....I don't know.  
 disorder.....That you order stuff.  
 expression.....I don't know.  
 granddaughter...I don't know.  
 insist.....I don't know.  
 jury.....I don't know.  
 kindness.....That you be kind to little children.  
 magnify.....I don't know.  
 ranch.....I don't know.  
 sneak.....What you sneak.  
 uneasy.....I don't know.

LIST 1

Response

Subject 27

ball.....A football.  
 dinner.....Time for dinner, noon.  
 pick.....Picture.  
 don't.....Don't run off.  
 must.....I don't know.  
 pan.....Dishpan.  
 rest.....In bed resting.  
 wagon.....To pull babies in.  
 anybody.....I don't know.  
 hang.....Hanging paper.  
 lie.....Laying.  
 chew.....Chewing gum.  
 lemon....."Lemon-egg".  
 bell.....To ring for recess.  
 either.....I don't know.  
 matter.....I don't know.  
 sidewalk.....To walk on.  
 tire.....To put on a car.  
 star.....To put on your dress or to keep. A pin.  
 cozy.....Coats.  
 bun ..... A little rabbit.

Test Word

Response

present.....	A Christmas present.
married.....	You get married.
Dutch.....	You're "Dutchy".
single.....	I don't know.
globe.....	I don't know.
beetle.....	I don't know.
fireman.....	A fire.
jolly.....	A doll.
perfume.....	To put on your hair.
leader.....	A boy or girl leaders.
sang.....	Singing.
acorn.....	Acorn.
clever.....	I don't know.
drove.....	I don't know.
gallant.....	I don't know.
pray.....	Praying.
stork.....	I don't know.
sling.....	I don't know.
tardy.....	You're tardy for school.
wig.....	I don't know.
aside.....	I don't know.
asylum.....	I don't know.
brilliant.....	I don't know.
coast.....	Coasting in a wagon.
cooler.....	You're cool.
dandruff.....	Dandruff in your hair.
departure.....	I don't know.
gaze.....	I don't know.
growth.....	I don't know.
hospitable.....	Hospital.
issue.....	I don't know.
program.....	A program at school.
locomotive.....	I don't know.
mower.....	To cut grass.
Saxon.....	I don't know.
spur.....	I don't know.

LIST 2

Response

Subject 27

chair.....	A seat.
nice.....	Be good.
sweet.....	To kiss you.
good-by.....	Waving to you.
money.....	A nickel.
string.....	A rope.
sheep.....	White sheep.
feet.....	Your legs.
green.....	Green grass.
yellow.....	Yellow flowers.
bitter.....	Sour.
could.....	Chewing.

Test Word

Response

sorry.....	Sorry because you won't be good.
field.....	A garden.
part.....	I don't know.
stem.....	Stem of a apple.
track.....	A railroad track.
Friday.....	I don't know.
noon.....	Dinner time.
buzz.....	I don't know.
hip.....	Your back.
seen.....	I don't know.
merry.....	Mary Ellen Stice.
sailboat.....	A boat.
awhile.....	Awhile before breakfast time.
beach.....	A beet.
below.....	Low.
thunderstorm...	It's thundering.
offer.....	I don't know.
lark.....	I don't know.
reader.....	A book.
barnyard.....	A barn.
boiler.....	A pot.
despise.....	I don't know.
echo.....	Acorn.
harsh.....	I don't know.
native.....	I don't know.
Robert.....	Robin bird.
style.....	I don't know.
travel.....	I don't know.
aisle.....	I don't know.
anguish.....	I don't know.
auger.....	I don't know.
bruise.....	To bruise your apple.
column.....	I don't know.
crept.....	Crippled.
delay.....	I don't know.
disorder.....	Order some groceries.
expression.....	I don't know.
granddaughter..	Your daughter.
insist.....	Sister.
jury.....	I don't know.
kindness.....	I don't know.
magnify.....	I don't know.
ranch.....	Daddy has a wrench.
sneak.....	Sneaking.
uneasy.....	Be easy.

LIST 1

Response

Subject 28

ball.....	Round. A ball you throw and play with.
dinner .....	Eat. Things you eat.

Test Word

Response.

pick .....	Pick things up. Get a ball that has been thrown away.
don't .....	To not do nothing.
must .....	I must go out and play.
pan .....	That you cook things in.
rest .....	To lay down.
wagon .....	That you pull little kids in.
anybody.....	People. Anybody.
hang .....	To hang a hog or people. To hang on a nail.
lie .....	Don't know. If people tell lies we won't believe them.
chew .....	To chew gum.
lemon .....	It has juice in it. That you eat.
bell.....	It rings for children to come to school.
either.....	I don't know.
matter .....	It does not matter.
sidewalk .....	That you walk on.
tire .....	What is on a car wheel.
star.....	It has light. It's up in the sky.
cozy .....	I don't know.
bun .....	That you eat.
present.....	A Christmas present that you get.
married.....	If people marry anybody.
Dutch .....	If people call my daddy a Dutchman.
single .....	I don't know.
globe.....	That you put on a lamp.
beetle.....	I don't know.
fireman.....	That fires anybody.
jolly .....	I don't know.
perfume.....	That you put on your dress. To make it smell good.
leader.....	Leader in a game.
sang.....	If you want to sing a song.
acre.....	I don't know.
clever.....	I don't know.
drove.....	If people are going to drive somewhere.
gallant.....	I don't know.
pray.....	Pray to God.
stork.....	I don't know.
sling.....	To sling a ball.
tardy.....	When you are tired.
wig .....	I don't know.
aside.....	I don't know.
asylum.....	When people go crazy they put them in an asylum.
aside .....	I don't know.
brilliant.....	I don't know.
coast.....	If you have a wagon and you have nobody to pull you.
cooler .....	Cool.

<u>Test Word</u>	<u>Response</u>	<u>Subject 28</u>
dandruff.....	Dandruff on people's head. They have to wash their head.	
departure.....	I don't know.	
gaze.....	People looking at nothing, they are gazing.	
growth.....	I don't know.	
hospitable.....	Sick people have to go to a hospital.	
issue.....	I don't know.	
program.....	A kind of a play. First graders have a program.	
locomotive.....	I don't know.	
mower.....	I don't know.	
Saxon .....	I don't know.	
spur.....	I don't know.	

<u>LIST 2</u>	<u>Response</u>	<u>Subject 28</u>
chair.....	That you sit in.	
nice .....	Nice people. People that are nice.	
sweet.....	Sweet things. People can eat them if they are sweet.	
good-by.....	If anybody is going to leave they tell them good-by.	
money.....	That you spend.	
string.....	That you tie things with.	
sheep.....	That you butcher.	
feet.....	Are on people.	
green .....	A apple is green, not ripe yet.	
yellow.....	I don't know.	
bitter .....	If a apple is bitter, people shouldn't eat it.	
could.....	I could wash dishes.	
sorry.....	People feel sorry for someone who fell down.	
part.....	Tear something apart.	
field.....	People plow corn in it.	
stem .....	What you throw away off of a apple.	
track .....	What trains go on.	
Friday .....	Good Friday.	
noon.....	When people are supposed to eat dinner.	
buzz.....	I don't know.	
hip.....	(Pointed to hip), a bone.	
seen .....	People who are going to see anybody.	
merry.....	I don't know.	
sailboat.....	What you sail in.	
awhile.....	I don't know.	
beach.....	I don't know.	
below.....	Some people were down below the stairs and some were up-stairs.	
thunderstorm....	Thunder could hit a house.	
offer.....	I don't know.	
lark.....	I don't know.	
reader.....	Thing you read by.	

<u>Test Word</u>	<u>Response</u>
barnyard.....	What you put horses in.
boiler.....	What you boil things in.
despise.....	I don't know.
echo.....	It hurts.
harsh.....	To hush.
native.....	I don't know.
Robert.....	What people call their boy.
style.....	Style things.
travel.....	People travel in a bus.
aisle.....	What you aisle things with.
anguish.....	People get anguish.
auger.....	I don't know.
bruise.....	I don't know.
column.....	What you call them with.
crept.....	I don't know.
delay.....	I don't know.
disorder.....	What you order with.
expression.....	I don't know.
granddaughter..	People have a granddaughter.
insist.....	I don't know.
jury.....	I don't know.
kindness.....	People are kind to you.
magnify.....	I don't know.
ranch.....	I don't know.
sneak.....	To sneak into things.
uneasy.....	I don't know.

<u>LIST 1</u>	<u>Response</u>	<u>Subject 29</u>
ball.....	What you play with.	
dinner.....	What you eat.	
pick.....	To pick flowers or blackberries.	
don't.....	Don't want to.	
must.....	Somebody mussed something.	
pan.....	What you cook something in.	
rest.....	Lay down on a bed and rest.	
wagon.....	What you play with.	
anybody.....	It means someone.	
hang.....	Someone hang something, a towel or a pig.	
lie.....	Somebody tell a lie.	
chew.....	People chews tobacco or something.	
lemon.....	What you make lemonade out of.	
bell.....	What rings.	
either.....	I don't know.	
matter.....	It don't matter.	
sidewalk.....	What you walk on.	
tire.....	What you put on bicycles and cars.	
star.....	What comes in the night.	
cozy.....	I don't know.	
bun.....	What you eat.	

Test Word

Response

present .....	What someone brings.
married.....	It means someone married.
Dutch.....	Someone is Dutch.
single .....	To shingle houses and barns.
globe .....	A light globe.
beetle .....	I don't know.
fireman.....	A man that puts out fires.
jolly .....	I don't know.
perfume.....	What you put on dresses. It smells good.
leader.....	What gets in front when you march.
sang.....	I don't know.
acre.....	What you plant things in.
clever .....	Means clabber milk.
drove.....	Drove a cow in the field.
gallant .....	Some horse gallops.
pray.....	Pray before you go to bed. Pray to Jesus.
stork .....	A bird.
sling.....	Somebody has a sling and slings with it.
tardy.....	Somebody came tardy to school.
wig.....	What somebody puts on his hand.
aside.....	I don't know.
asylum .....	I don't know.
brilliant.....	I don't know.
coast .....	Somebody coast in your wagon.
cooler.....	Somebody wanted something cool.
dandruff.....	What people get in their hair.
departure.....	I don't know.
gaze .....	I don't know.
growth.....	I don't know.
hospitable.....	I don't know.
issue .....	I don't know.
program.....	Somebody's has a program. What you play.
locomotive.....	I don't know.
mower.....	What you push to cut grass.
Saxon.....	I don't know.
spur.....	A little bird.

LIST 2

Response

Subject 29

chair.....	What you sit in.
nice.....	It means nice.
sweet.....	It is sweet. Something is sweet.
good-by.....	It means good-by to someone else.
money.....	What you buy things with.
string.....	What you tie packages up with.
sheep .....	Cows.
feet.....	To stand and walk on.
green .....	Green grass.
yellow .....	Yellow flowers.
bitter.....	Sour. It means it's not ripe.

<u>Test Word</u>	<u>Response</u>
could.....	I don't know.
sorry .....	It means he is sorry he hit someone.
field.....	What you put hay and stuff to eat. "Kaffey Corn".
part .....	I don't know.
stem.....	Stem of a peach. What things grow on.
track .....	A little track what people leave.
Friday.....	It means a day.
noon.....	At noon you leave to eat.
buzz .....	I don't know.
hip .....	Hips on your feet.
seen .....	I seen something, a rabbit or a dog.
merry .....	Somebody's name. I don't know any other.
sailboat .....	It's got a sail on. It sails.
awhile .....	Brother said he would stay awhile.
beach .....	I don't know.
below .....	I don't know.
thunderstorm....	It "busts" something and blows people away.
offer .....	Offer something to someone.
reader.....	What you read out of.
lark .....	I don't know.
barnyard.....	What you go into on a farm.
boiler .....	What you boil things in.
despise.....	I don't know.
echo .....	I don't know.
harsh .....	I don't know.
native.....	I don't know.
Robert .....	Some boy's name.
style.....	Some lady's or man's style. Somebody got new things to wear.
travel.....	Travel away. People get in a truck and go away.
aisle.....	I don't know.
anguish.....	I don't know.
auger.....	I don't know.
bruise.....	Apple bruise. Somebody bruised it.
column.....	I don't know.
crept .....	I don't know.
delay.....	I don't know.
disorder.....	I don't know.
expression ....	I don't know.
granddaughter..	Somebody else.
insist .....	I don't know.
jury.....	A cow.
kindness.....	Kindness to somebody.
magnify.....	What you put up to the eye and look through.
ranch .....	What you screw up things with.
sneak .....	I don't know.
uneasy.....	It is easy.

LIST 1

Response

Subject 30

ball .....	To play with.
dinner.....	Noon.
pick .....	Pick strawberries.
don't .....	Don't do it.
must .....	I don't know.
pan .....	To cook in.
rest .....	Go to bed.
wagon .....	To play with.
anybody.....	There isn't no one.
hang.....	Hang things, hogs.
lie.....	You shouldn't say it.
chew .....	Chew food.
lemon .....	What you eat.
bell .....	To ring.
either.....	I don't know.
matter.....	I don't know.
sidewalk.....	To walk on.
tire.....	Put on a car.
star.....	It is up in the air.
cozy.....	Something to put on.
bun .....	To eat something.
present.....	Santa Claus gives it to you.
married.....	I don't know.
Dutch .....	Can't talk plain.
single .....	Single on a house.
globe .....	A piece of paper to read.
beetle.....	I don't know.
fireman.....	To help burn houses up.
jolly.....	I don't know.
perfume.....	You put on you to make you smell pretty.
leader .....	Lead something.
sang .....	I don't know.
acre.....	Something to eat.
clever.....	Clever milk.
drove.....	Drive a car.
gallant.....	I don't know.
pray .....	Pray to God.
stork.....	I don't know.
sling.....	I don't know.
tardy .....	You're late to school.
wig.....	A wing.
aside .....	I don't know.
asylum.....	I don't know.
brilliant.....	I don't know.
coast .....	Something to wear.
cooler.....	Go outside and get cooled off.
dandruff.....	I don't know.
departure.....	Park the car.

<u>Test Word</u>	<u>Response</u>
gaze.....	I don't know.
growth .....	I don't know.
hospitable.....	Operate on someone.
issue.....	I don't know.
program.....	What people come to.
locomotive.....	I don't know.
mower.....	Lawn mower.
Saxon .....	I don't know.
spur .....	I don't know.

LIST 2

Response

Subject 30.

chair.....	To sit in.
nice .....	They get "onery".
sweet.....	Good to eat.
good-by.....	Say good-by to you.
money .....	To buy things with.
string.....	To tie with.
sheep.....	Meat.
feet .....	To walk on.
green.....	You get sick of it if you eat it.
yellow.....	A house is yellow.
bitter.....	Don't taste good.
could.....	I don't know.
sorry .....	You shouldn't do it. You are sorry.
field.....	You plant something in it.
part .....	I don't know.
stem .....	Piece of wood.
track.....	People make it.
Friday .....	A day.
noon.....	Dinner.
buzz.....	I don't know.
hip .....	On the body.
seen .....	I don't know.
merry .....	It's somebody.
sailboat.....	A boat that goes sailing in the water.
awhile .....	I don't know.
beech.....	Something to eat.
below.....	I don't know.
thunderstorm...	It's going to rain.
offer.....	I don't know.
lark.....	I don't know.
reader .....	A man that reads it.
barnyard.....	Where you keep your cows.
boiler.....	You wash in it.
despise.....	I don't know.
echo .....	I don't know.
harsh .....	I don't know.
native.....	I don't know.
Robert .....	A bird.
style.....	I don't know.

<u>Test Word</u>	<u>Response</u>
travel .....	You walk.
aisle .....	I don't know.
anguish .....	You are mad.
auger .....	I don't know.
bruise .....	You are sunburned.
column .....	I don't know.
crept .....	You crept into somebody's house.
delay.....	I don't know.
disorder.....	Bring something to eat to people.
expression .....	I don't know.
granddaughter...	A sister.
insist .....	I don't know.
jury.....	A town.
kindness .....	You're sorry.
magnify.....	I don't know.
ranch .....	To work with.
sneak .....	To sneak into somebody's house.
uneasy .....	I don't know.

<u>LIST 1</u>	<u>Response</u>	<u>Subject 31</u>
ball .....	What you throw to play ball with.	
dinner.....	What you eat.	
pick .....	What you pick to eat.	
don't .....	I don't know.	
must .....	I don't know.	
pan.....	What you cook things in and what you put starch in.	
rest.....	When you put people in jail when they have a old license.	
wagon .....	What you coast in.	
anybody.....	Not anybody.	
hang.....	Swing.	
lie.....	I don't know.	
chew .....	Chew gum.	
lemon .....	What you eat when you feel bad.	
bell .....	What you ring to make people come in when its time to make their drawing.	
either.....	I don't know.	
matter.....	Mad.	
sidewalk.....	What you walk on.	
tire .....	Is what you put on a car on the wheels.	
star .....	It has points.	
cozy.....	I don't know.	
bun .....	I don't know.	
present .....	What you give when there is a birthday.	
married.....	I don't know.	
Dutch.....	When you're Dutch and people don't hear what you say.	

<u>Test Word</u>	<u>Response</u>
single.....	I don't know.
globe.....	What you turn on when its dark in the house.
beetle.....	What you eat.
fireman.....	When there's a fire the fireman goes to put the fire out.
jolly.....	I don't know.
perfume.....	What you put on your clothes to make you smell good.
leader.....	I don't know.
sang .....	I don't know.
score.....	I don't know.
clever.....	I don't know.
drove.....	I don't know.
gallant.....	I don't know.
pray.....	I don't know.
stork.....	I don't know.
cling .....	I don't know.
tardy.....	When you are late to school.
wig.....	Eye, when you wink to each other.
aside.....	I don't know.
asylum.....	I don't know.
brilliant.....	I don't know.
coast.....	Coast a wagon.
cooler.....	When its so hot and you get cooled down.
dandruff.....	What's in your hair.
departure.....	I don't know.
gaze.....	I don't know.
growth.....	I don't know.
hospitable.....	Go to a hospital and a man cuts you open.
issue.....	When you kiss each other.
program.....	When you seen it you get something to eat.
locomotive.....	I don't know.
mower.....	Lawn mower.
Saxon.....	What you put things in.
spur.....	I don't know.

<u>LIST 2</u>	<u>Response</u>	<u>Subject 31</u>
chair .....	To sit in.	
nice .....	Means you behave.	
sweet.....	Means you be sweet.	
good-by.....	Means be good.	
money .....	What people spend to get clothes.	
string.....	What you hang things upon.	
sheep .....	Things that you eat.	
feet.....	What you walk on.	
green.....	What you eat.	
yellow.....	Yellow crayola.	
bitter.....	What you put up in jars.	
could.....	What you cut and put in a stove and burn.	

<u>Test Word</u>	<u>Response</u>
sorry.....	You'll be sorry when you hurt people. Your mamma makes you go over and say you're sorry.
field .....	Where you plant corn and stuff you eat in.
part .....	I don't know.
stem .....	What you put candy on.
track .....	Means races. Get set and run.
Friday.....	Day you don't have to go to school.
noon.....	When they go home to eat their dinner.
buzz .....	I don't know.
hip.....	A side.
seen.....	I don't know.
merry .....	I don't know.
sailboat.....	What you play with.
awhile.....	I don't know.
beach.....	Beet.
below.....	I don't know.
thunderstorm...	Clouds way up in the sky.
offer .....	I don't know.
lark .....	I don't know.
reader.....	A book.
barnyard.....	A barn.
boiler.....	What you put clothes in when you wash them.
despise.....	I don't know.
echo.....	I don't know.
harsh.....	I don't know.
native.....	I don't know.
Robert.....	Robert Sears.
style.....	I don't know.
travel.....	Go to work.
aisle.....	Eye.
anguish.....	I don't know.
anger.....	I don't know.
bruise.....	I don't know.
column.....	I don't know.
crept.....	A cane.
delay.....	I don't know.
disorder.....	I don't know.
expression.....	I don't know.
granddaughter..	Grandpa.
insist.....	I don't know.
jury .....	I don't know.
kindness.....	I don't know.
magnify.....	I don't know.
ranch.....	What you fix your cars with.
sneak.....	When a cat sneaks up on a bird.
uneasy.....	I don't know.

LIST 1

Response

Subject 32

ball..... A ball to play ball and jacks with.

<u>Test Word</u>	<u>Response</u>
dinner .....	To eat.
pick .....	Pick strawberries.
don't .....	Don't bother people's things.
must .....	Good to eat. Mustard.
pan .....	To cook in.
rest .....	Lay down and rest.
wagon .....	To ride in.
anybody .....	Nobody.
hang .....	Hang a pig up.
lie .....	It's a poison. It bites you in water.
chew .....	To wear on feet.
lemon .....	Lemonade.
bell .....	A bell that you ring.
either .....	Either don't you bother anything.
matter .....	It don't matter.
sidewalk .....	Cement.
tire .....	Rubber.
star .....	It is in the sky.
cozy .....	Wear your clothes.
bun .....	Good to eat.
present .....	Present for birthday. A sucker or something.
married .....	I don't know.
Dutch .....	That you are Dutch.
single .....	To put up on top of the house.
globe .....	Lamp globe.
beetle .....	What you sew with.
fireman .....	Make a fire.
jolly .....	Jelly good to eat.
perfume .....	What you put on your dress.
leader .....	To be the leader, to lead the horse.
sang .....	It flies.
acre .....	Acre field.
clever .....	Clever milk.
drove .....	Drove a car.
gallant .....	Gallon jar.
pray .....	Play with your sister.
stork .....	A sore.
sling .....	Swing in a swing.
tardy .....	To be tardy.
wig .....	I don't know.
aside .....	Outside.
asylum .....	I don't know.
brilliant .....	Building a house.
coast .....	Get cold.
cooler .....	Getting cooler.
dandruff .....	I don't know.
departure .....	I don't know.
gaze .....	Open the gate.
growth .....	I don't know.
hospitable .....	I don't know.

Test Word

Response

issue.....	Initial
program.....	When you dance at a program.
locomotive....	A motor in the car.
mower.....	I don't know.
Saxon.....	Sack.
spur.....	I don't know.

LIST 2

Response

Subject 32

chair.....	What you sit on.
nice.....	Sit nice.
good-bye.....	Good-bye to you.
money.....	To sell and to buy things.
string.....	What you tie up things with.
sheep.....	I don't know.
feet.....	What you walk on.
green.....	Green grass.
yellow.....	Yellow numbers.
bitter.....	I don't know.
could.....	I don't know.
sorry.....	Sour milk.
field.....	What you work in.
pert.....	That you park your car.
stem.....	Stem on your handle.
track.....	Railroad track.
Friday.....	On a day.
noon .....	This afternoon.
buzz .....	I don't know.
hip .....	On your side (pointed to side).
seen.....	I don't know.
merry .....	I don't know.
sailboat.....	A boat.
awhile.....	I don't know.
beach.....	I don't know.
below.....	Down low.
thunderstorm..	Thunder.
offer .....	I don't know.
lark.....	I don't know.
reader .....	That you read a book.
barnyard.....	A yard.
boiler.....	What you boil clothes in.
despise.....	I don't know.
echo.....	I don't know.
harsh.....	I don't know.
native .....	I don't know.
Robert.....	A boy.
style .....	Style dress.
travel .....	Traveling down.
aisle .....	Eye.
anguish.....	I don't know.
anger.....	I don't know.

<u>Test Word</u>	<u>Response</u>
bruise.....	Mulberry bruise.
column.....	I don't know.
crept.....	I don't know.
delay.....	Lay your head down.
disorder.....	I don't know.
expression.....	I don't know.
granddaughter..	Your mamma's granddaughter.
insist.....	I don't know.
jury.....	Injury.
kindness.....	I don't know.
magnify.....	I don't know.
ranch.....	It belongs to the car.
sneak.....	Great big snake.
uneasy.....	I don't know.

<u>LIST 1</u>	<u>Response</u>	<u>Subject 33</u>
ball.....	What you play with.	
dinner.....	It's where you eat.	
pick.....	It means you pick stuff.	
don't.....	Your mother tells you not to do something. You must mind her.	
must.....	If you do anything and your mother tells you to do it, you must.	
pan.....	What you wash dishes in.	
rest.....	That you go to sleep and rest.	
wagon.....	What you haul clothes in.	
anybody.....	I don't know.	
hang.....	Where you hang your pan that you wash dishes in	
lie.....	I don't know.	
chew.....	That you are chewing gum.	
lemon.....	What you get juice out of.	
bell.....	It's to ring.	
either.....	I don't know.	
matter.....	I don't know.	
sidewalk.....	It's to walk on.	
tire.....	To put on a car.	
star.....	It's to put up in the sky.	
cozy.....	I don't know.	
bun.....	What you eat.	
present.....	What you get for your birthday.	
married.....	It means that you get married.	
Dutch.....	It means that you talk Dutch.	
single.....	I don't know.	
globe.....	To put on a light.	
beetle.....	I don't know.	
fireman.....	He pours water on a house when it gets afire.	
jolly.....	I don't know.	
perfume.....	It's to put on your dress.	
leader.....	Somebody is supposed to be a leader when you march out.	

<u>Test Word</u>	<u>Response</u>
sang.....	If you sing don't sing too loud.
acre.....	I don't know.
clever.....	I don't know.
drove.....	I don't know.
gallant.....	It's what you put water in.
pray.....	It means you must pray to God.
stork.....	I don't know.
sling.....	I don't know.
tardy.....	I don't know.
wig.....	I don't know.
aside.....	I don't know.
asylum.....	I don't know.
brilliant.....	I don't know.
coast.....	I don't know.
cooler.....	It means that you get cooler.
dandruff.....	I don't know.
departure.....	I don't know.
gaze.....	I don't know.
growth.....	I don't know.
hospitable....	I don't know.
issue.....	I don't know.
program.....	You are supposed to sing in a program.
locomotive....	I don't know.
mower.....	What you mow grass with.
Saxon.....	What you put junk in.
spur.....	I don't know.

<u>LIST 2</u>	<u>Response</u>	<u>Subject 33</u>
chair.....	You are supposed to sit in a chair.	
nice.....	That you must be nice and you must mind your mother.	
sweet.....	You must be sweet to mother.	
good-by.....	That you want to say good-by to mother.	
money.....	You buy something with it.	
string.....	You can tie things up with it.	
sheep.....	You can kill them and eat them.	
feet.....	To walk on.	
green.....	Green paint.	
yellow.....	Paint.	
bitter.....	Something is bitter.	
could.....	It means that you chew gum.	
sorry.....	It means that you are sorry.	
field.....	Where you plant stuff.	
part.....	I don't know.	
stem.....	Stem of an apple.	
track.....	A railroad track.	
Friday.....	Friday.	
noon.....	When you go to school.	
buzz.....	Butterflies buzz.	
hip.....	(Pointed to side but not to hip).	

<u>Test Word</u>	<u>Response</u>
seen.....	It means that you seen.
merry.....	It means that you are married.
sailboat.....	It's to sail in the water.
awhile .....	I don't know.
beach .....	I don't know.
below.....	It means that you are on the ground.
thunderstorm...	It thunders sometimes.
offer .....	I don't know.
lark.....	I don't know.
reader.....	I don't know.
barnyard .....	Where you put things.
boiler.....	What you wash clothes in.
despise.....	I don't know.
echo.....	I don't know.
harsh.....	It means you talk harsh.
native.....	I don't know.
Robert .....	It's a robber.
style.....	I don't know.
travel.....	I don't know.
aisle.....	Where you put water.
anguish.....	That you are anguish.
suger.....	I don't know.
bruise.....	That you hurt yourself.
column.....	I don't know.
crept .....	I don't know.
delay.....	I don't know.
disorder.....	I don't know.
expression.....	I don't know.
granddaughter..	It's somebody's sister.
insist.....	I don't know.
jury.....	I don't know.
kindness .....	It means that you like people.
magnify .....	I don't know.
ranch .....	It's a thing that you screw with.
sneak.....	It means that if you sneak things you will get put in jail.
uneasy.....	I don't know.

CHAPTER VI  
DISCUSSION OF RESULTS

Introduction

The results obtained will be presented and discussed under three headings: (1) Individual differences in defining words as shown by central tendencies and dispersions; (2) the nature of individual differences in defining words as shown by correlations; and (3) individual differences in defining words as influenced by age, intelligence, sex, and social status.

Individual Differences in Defining Words as Shown  
by Central Tendencies and  
Dispersions

Some idea of the average performance of the group was gained by computing the mean. In addition to this the median was found so as to eliminate the effect of a few exceptionally high or low scores which appeared occasionally. Variability is indicated by range, standard deviation, probable error and coefficient of variation. The upper and lower limits of the distribution are shown by the range. The nature of the variation from the central tendency is shown by the standard deviation and the probable error. It should be remembered that the probable error is interpreted in exactly the same way as the standard deviation, except that it is the distance above and below the mean required to include the approximate middle fifty per cent of the cases instead of the middle two-thirds. The probable error is derived from the standard deviation by multiplying the latter by the constant .6745.

The coefficient of variation, which gives the percentage that the standard deviation is of the mean score, was computed so as to present the comparisons more clearly.

Number of Words Defined Correctly.- As stated in Chapter I, a study of individual differences in the number of words defined correctly was one of the problems of this investigation. Table III gives the number of words defined correctly by each subject.

Table III  
Number of Words Defined Correctly  
by each Subject

Child's Number	List A	List B	Total	Child's Number	List A	List B	Total
31	35	39	74	20	28	27	55
8	38	32	70	5	27	27	54
32	31	33	64	13	26	28	54
21	32	31	63	22	29	26	55
17	35	28	63	25	28	25	53
19	34	28	62	29	27	23	50
18	34	28	62	10	25	25	50
14	30	31	61	26	26	23	49
30	32	29	61	6	24	23	47
24	28	32	60	9	24	23	47
12	34	26	60	33	24	20	44
15	27	33	60	27	23	18	41
28	30	30	60	7	20	21	41
3	30	28	58	4	21	20	41
16	31	26	57	23	20	18	38
11	30	26	56	1	15	19	34
2	28	27	55				

It is clearly shown in Table III that there is a wide variation in ability to define words correctly. There is a range from 74 to 34 or 40 points. The highest subject knows approximately 2.2 times as many words as the lowest. The average of the highest fourth of the subjects is approximately

1.6 times that of the lowest fourth.

A summary of the findings, with reference to central tendencies and variabilities or dispersions dealing with the number of words defined correctly is given in Table IV.

TABLE IV

Summary of Results Dealing With the Number  
of Words Defined Correctly

Range	Mean	Median	S. D.	P. E.	V.
40	54.5	55	8.37	5.65	15.4

Inspection of Table IV shows that the mean and median are approximately the same. The mean score is about 48 per cent of the total number of words in the test. According to the standard deviation and the probable error, approximately two-thirds of all the scores, or twenty-two scores are included between the limits 62.85 and 46.13 and about one-half of them are found between 60.15 and 48.85. The coefficient of variation shows that the standard deviation is 15.4 per cent of the mean. The most significant fact shown in Table IV is the wide range.

Definitions in Terms of Use.—Turning next to the kinds of definitions given by the subjects, the use definitions are considered first. This part of the study of course involves only the nouns, including all words which may be used as nouns. Table V gives the total number of words defined in terms of use by each subject.

TABLE V

Number of Words Defined in Terms of Use by Each Subject

Child's Number	Number of Use Definitions	Child's Number	Number of Use Definitions
5	27	2	17
3	26	1	17
22	25	33	16
7	25	32	15
17	24	20	15
29	24	8	15
28	23	25	14
21	23	14	13
30	22	9	13
26	22	24	12
19	22	12	12
15	22	6	12
23	20	16	11
18	19	27	7
4	19	11	6
13	17	31	2
10	17		

Observation of Table V shows an exceptionally wide range. One subject defined twenty-seven words in terms of use while the lowest child defined only two in terms of use. The highest fourth defined approximately 2.6 times as many words in terms of use as did the lowest fourth.

As stated in Chapter II, use definitions were divided into two kinds, (1) those beginning with an infinitive, and (2) those beginning with "what" or "they". Table VI shows the total number of definitions beginning with an infinitive, used by each subject. The number of use definitions beginning with "what" or "they" given by each subject are presented in Table VII.

TABLE VI

Number of "Use Definitions" Beginning with an Infinitive

Child's Number	"Use Def." Beginning With Infinitive	Child's Number	"Use Def." Beginning With Infinitive
15	16	17	1
28	16	5	0
26	13	32	0
20	12	31	0
18	12	30	0
29	9	24	0
33	8	19	0
27	7	14	0
21	4	13	0
3	3	12	0
23	3	11	0
2	3	10	0
22	2	9	0
16	2	8	0
7	2	6	0
4	2	1	0
25	1		

TABLE VII

Number of "Use Definitions" Beginning With "What" or "They"

Child's Number	"Use Def" Beginning With "What", "They"	Child's Number	"Use Def" Beginning With "What", "They"
5	27	25	13
22	23	14	13
17	23	9	13
7	23	24	12
3	23	12	12
30	22	6	12
19	22	26	9
21	19	16	9
23	17	33	8
13	17	28	7
10	17	18	7
4	17	15	6
1	17	11	6
32	15	20	3
29	15	31	2
8	15	27	0
2	14		

The most significant fact shown in Table VI is again the wide range. One child used the infinitive form of definition 16 times while 15 of the subjects did not use it at all. The average number of times that it was used by the highest fourth is 11.6 while that of the lowest fourth is 0. The mean score of the whole group is 3.51.

Also Table VII shows a wide range. One subject used 27 "use definitions" beginning with "what" or "they" while another child used 0. The highest fourth used 4.7 times as many as the lowest fourth. The mean score of the whole group is 13.89 and the median is 14, which shows that the distribution curve is fairly symmetrical.

A comparison of Tables VI and VII shows that more definitions beginning with "what" or "they" were given by the subjects than definitions beginning with an infinitive. The average number of the former used by all the subjects is 13.89 while that of the latter is 3.51.

By way of summarizing the results of this part of the investigation dealing with definitions in terms of use, Table VIII is next presented.

TABLE VIII

Summary of Results Dealing With Definitions in  
Terms of Use

Range	Mean	Median	S. D.	P. E.	V.
25	17.39	17	6.89	4.63	39.62

Unquestionably the most important fact shown in this table also is the wide range. The mean and median are practically

the same indicating that the distribution curve is fairly symmetrical. The standard deviation and the probable error indicate that about two-thirds of all scores are found between the limits 24.28 and 10.50 and about one-half of them are included between the limits 22.02 and 12.76. The coefficient of variation shows that the standard deviation is 39.62 per cent of the mean.

Definitions in Terms Superior to Use.- In Table V to VIII inclusive, the results of the investigation dealing with "use definitions" have been presented. Next a consideration of "superior to use definitions" was undertaken. To show the total number of such definitions given by each subject Table IX is presented.

TABLE IX

Number of "Superior to Use" Definitions Given by Each Subject

Child's Number	No. of Superior to use Definitions	Child's Number	No. of Superior to Use Definitions
31	46	17	17
8	33	6	16
24	30	21	15
11	30	1	15
12	29	30	14
14	28	26	13
16	26	3	13
32	25	5	12
20	23	28	11
27	21	19	11
25	21	10	11
13	21	4	11
2	21	22	9
15	20	7	9
18	19	29	7
9	19	23	7
33	17		

Table IX shows that, although every subject defined some words in terms superior to use, there is great variability in the number defined by the various subjects. A range of 39 was found. The highest individual gave 46 superior to use definitions while the lowest gave only 7. In other words one subject defined 6.6 times as many words in terms superior to use as did another subject. The highest fourth gave 3.25 times as many such definitions as did the lowest fourth.

It seemed to the experimenter that a study of the various types of "superior to use" definitions given by the subjects might be worthwhile. After studying the great variety of types given by the subjects it was decided to group them under the following divisions: Color, shape, place, time, composition, general nature, general description, class and class relationship.

Tables X to XVIII give the number of the various types of definitions given by each subject.

TABLE X

Number of "Superior to Use" Definitions Designating Place, Given by Each Subject

Child's Number	Number of Definitions Designating Place	Child's Number	Number of Definitions Designating Place
15	6	14	3
32	5	8	3
9	5	3	3
30	4	1	3
27	4	26	2
24	4	25	2
2	4	23	2
31	3	22	2
20	3	17	2

TABLE X (Continued)

Number of "Superior to Use" Definitions Designating Place, Given by Each Subject

Child's Number	Number of Definitions Designating Place	Child's Number	Number of Definitions Designating Place
16	2	10	1
13	2	5	1
7	2	4	1
6	2	29	0
33	1	28	0
21	1	18	0
19	1	12	0
		11	0

TABLE XI

Number of "Superior to Use" Definitions Designating Time, Given by Each Subjects

Child's Number	Number of Definitions Designating Time	Child's Number	Number of Definitions Designating Time
31	3	20	1
32	2	17	1
27	2	15	1
24	2	14	1
19	2	12	1
16	2	9	1
13	2	8	1
10	2	7	1
6	2	4	1
5	2	3	1
1	2	2	1
30	1	33	0
29	1	28	0
26	1	23	0
25	1	18	0
22	1	11	0
21	1		
Total.....			40.
Mean.....			1.2
Median.....			1.
Range.....			3 - 0

TABLE XII

Number of "Superior to Use Definitions" Designating Color, Given by Each Subject

Child's Number	Number of Definitions Designating Color	Child's Number	Number of Definitions Designating Color
25	3	18	0
2	3	17	0
32	2	16	0
31	1	15	0
27	1	14	0
24	1	12	0
20	1	11	0
13	1	10	0
33	0	9	0
30	0	8	0
29	0	7	0
28	0	6	0
26	0	5	0
23	0	4	0
22	0	3	0
21	0	1	0
19	0	Total.....	13

TABLE XIII

Number of "Superior to Use Definitions" Designating Shape, Given by Each Subject

Child's Number	Number of Definitions Designating Shape	Child's Number	Number of Definitions Designating Shape
11	5	20	0
16	2	19	0
6	2	18	0
31	1	17	0
25	1	15	0
21	1	13	0
14	1	12	0
33	0	10	0
32	0	9	0
30	0	8	0
29	0	7	0
28	0	5	0
27	0	4	0
26	0	3	0
24	0	2	0
23	0	1	0
22	0	Total .....	13

TABLE XIV

Number of "Superior to Use Definitions" Designating Composition, Given by Each Subject

Child's Number	Definitions Designating Composition	Child's Number	Definitions Designating Composition
33	2	19	0
31	2	17	0
11	2	16	0
32	1	15	0
30	1	14	0
26	1	13	0
24	1	10	0
18	1	9	0
12	1	8	0
29	0	7	0
28	0	6	0
27	0	5	0
25	0	4	0
23	0	3	0
22	0	2	0
21	0	1	0
20	0	Total.....	12

TABLE XV

Number of "Superior to Use Definitions" Giving General Descriptions, Used by Each Subject

Child's Number	Definitions Giving Gen. Description	Child's Number	Definitions Giving Gen. Description
11	4	24	0
31	3	23	0
9	3	22	0
8	2	21	0
32	1	20	0
14	1	19	0
13	1	18	0
12	1	17	0
10	1	16	0
4	1	15	0
33	0	7	0
30	0	6	0
29	0	5	0
28	0	3	0
27	0	2	0
26	0	1	0
25	0	Total.....	18

TABLE XVI

Number of "Superior to Use" Definitions  
Giving General Nature of Object Defined,  
Used by Each Subject

Child's Number	Number of Definitions Giving Gen. Nature.	Child's Number	Number of Definitions Giving Gen. Nature.
32	13	4	6
11	13	30	5
16	11	25	5
8	10	19	5
14	9	15	5
13	9	10	4
12	9	5	4
31	8	23	3
20	8	22	3
33	7	7	3
27	7	1	3
24	7	29	2
17	7	28	2
6	7	26	1
2	7	21	1
18	6	3	0
9	6		
Total-----		196.0	
Mean-----		5.9	
Median-----		6.0	
Range-----		13-0	

TABLE XVII

Number of "Superior to Use" Definitions of  
Lowest Classificatory Order, Given By  
Each Subject\*

Child's Number	Number of L. Class. Definitions	Child's Number	Number of L. Class. Definitions
12	15	24	11
31	14	18	10
8	14	21	9
14	12	16	9

\*Object defined under remote class giving few if any characteristics to distinguish it from members of the same class.

TABLE XVII  
(Continued)

Number of "Superior to Use" Definitions of  
Lowest Classificatory Order, Given by  
Each Subject

Child's Number	Number of L. Class. Definitions	Child's Number	Number of L. Class. Definitions
33	7	11	4
27	7	30	3
26	7	25	3
1	7	22	3
28	6	19	3
17	6	10	3
13	6	7	3
2	6	9	2
20	5	4	2
15	5	23	1
5	5	6	1
3	5	32	0
29	4		
Range-----		15	0
Mean-----		6	
Median-----		5	
Total-----		198	

TABLE XVIII

Number of "Superior to Use" Definitions of Higher  
Classificatory Order, Given by Each Subject\*

Child's Number	Number of H. Class. Definitions	Child's Number	Number of H. Class. Definitions
31	11	12	2
25	6	11	2
20	5	9	2
24	4	6	2
3	4	32	1
28	3	26	1
15	3	23	1
8	3	17	1
21	2	14	1
18	2	33	0

\*Object defined under higher class than that of  
Table XVII, giving essential traits which distinguish  
the object from others of the same class.

TABLE XVIII  
(Continued)

Number of "Superior to Use" Definitions of Higher  
Classificatory Order, Given by Each Subject

Child's Number	Number of H. Class. Definitions	Child's Number	Number of H. Class. Definitions
30	0	10	0
29	0	7	0
27	0	5	0
22	0	4	0
19	0	2	0
16	0	1	0
13	0		
Total - - - - -		56.0	
Mean - - - - -		1.7	
Median - - - - -		1.0	
Range - - - - -		11 - 0	

Inspection of Tables X to XVIII inclusive shows a great variation in the number of the different types of "superior to use" definitions given by the subjects. The type of definitions giving the lowest classificatory order leads with a total number of 198 and the type giving the general nature of the object defined is a close second with a total of 196. It should be remembered that in a definition of lowest classificatory order the object is defined under a remote class giving few if any characteristics to distinguish it from members of the same class such as, "a ball is a thing you can have fun with." The least number of definitions given, namely 12, was of the type designating composition. Next in order were the types designating shape and color, each with a total of 13.

The greatest range is also found in the definitions

which designate class or class relationship of the lowest order. Table XVII shows that the range is from 15 to 0. The highest fourth gave 6.3 times as many definitions of this type as the lowest fourth.

Next are considered definitions of higher classificatory order, which subsume the object under a higher class and give essential traits which distinguish the object from others of the same class, such as, "A reader is a book for children to read out of in school." Table XVIII shows that the total number of definitions of this type is 56 and that there is a range from 11 to 0 with a mean of 1.7. The upper fourth gave an average of about 4.9 definitions of this type while the lowest fourth gave none. Fourteen subjects gave no definitions designating class or class relationship of higher order.

Table XVI shows that the range of the number of definitions giving the general nature of the object defined is from 13 to 0. The upper fourth gave 5.4 times as many definitions of this type as the lowest fourth. The comparatively small number of subjects giving definitions of the other types and the small number of definitions, if any, given by each subject tend to decrease the range of those types.

Another significant fact shown in Tables X to XVIII inclusive is the variability in the number of subjects who gave no definitions of the different types. One subject gave no definitions of lower classificatory order. The same is true of the definitions giving the general nature of the

object defined. Five subjects gave no definitions designating place and the same number gave none designating time. Fourteen subjects gave no definitions of higher classificatory order, 23 gave none of the general descriptive type, 24 gave none designating composition, 25 gave none designating color, and 26 gave none designating shape.

Comparison of the means with the medians of the various distributions for which these were computed, shows them to be approximately the same. The greatest difference of any is one point which was found in the distribution of the number of definitions of the lowest classificatory order. These results show that in general the distribution curves are fairly symmetrical.

In Table XIX will be found a summary of the total number of definitions defined in terms superior to use.

TABLE XIX

Summary of Results dealing with total number of  
"Superior to use Definitions"

Range	Mean	Median	S. D.	S. E.	N.
39	18.79	17.0	8.55	3.76	43.5

The most significant fact shown in Table XIX is the wide distribution. The highest subject defined 5.2 times as many words in terms superior to use as the lowest subject. The highest fourth defined approximately 3.2 times as many as the lowest fourth. The small difference between the mean and the median indicates that the distribution curve is slightly skewed. From the standard deviation and

the probable error it is evident that approximately two-thirds of the scores are found between the limits of 27.34 and 10.24 and one-half of them between 24.35 and 13.03. The coefficient of variation shows that the standard deviation is 41.5 per cent of the mean.

Use of Wrong Tense. In this section the results obtained from a study of the responses with reference to the use of a wrong tense in defining verbs will be considered. Table XX shows the frequency of use of a wrong tense by each subject.

TABLE XX.

Frequency of Use of Wrong Tense in Defining Verbs  
by Each Student

Child's Number	Frequency of Use of Wrong Tense	Child's Number	Frequency of Use of Wrong Tense
30	4	26	1
31	3	25	1
27	3	23	1
21	3	20	1
19	3	18	1
15	3	12	1
2	3	11	1
32	2	9	1
24	2	7	1
16	2	6	1
14	2	5	1
13	2	28	0
10	2	22	0
8	2	17	0
3	2	4	0
33	1	1	0
29	1		
Total - - - - -		51.0	
Median - - - - -		1.0	
Mean - - - - -		1.5	
Range - - - - -		4 - 1	

It is shown in Table XX that all but five subjects, or approximately 85 per cent of the subjects made at least one mistake in defining verbs by giving a wrong tense. For the upper fourth the average number of mistakes made by using the wrong tense in defining verbs is 3 while that for the lower fourth is approximately .4. In other words the highest fourth used a wrong tense in defining verbs 7.5 times as often as the lowest fourth.

Definitions of Words Similar to Stimulus Words. A consideration of the results obtained from a study of the responses with reference to the frequency of defining a word similar to the stimulus word instead of the stimulus word itself will be undertaken in this section. Some of the words were found to be similar as to sound, such, as "either" and "ether" while others were similar as to classification, that is the word defined and the stimulus word belong to the same class or class relationship, for example, some subjects in defining the word "globe" said, "A globe is a light." Table XXI gives the frequency of defining words similar as to sound to the stimulus words instead of the stimulus words, for each subject.

TABLE XXI

Frequency of Definitions of Words, Similar as to Sound to the Stimulus Words, Given by Each Subject

Child's Number	Number of Similar Words Defined	Child's Number	Number of Similar Words Defined
33	22	9	15
16	15	22	14

TABLE XXI  
(Continued)

Frequency of Definitions of Words, similar as to  
sound to the stimulus words, given by  
each subject

Child's Number	Number of Similar Words Defined	Child's Number	Number of Similar Words Defined
28	15	13	6
26	15	7	5
11	15	3	5
21	12	29	5
19	10	23	5
12	10	23	5
8	10	18	5
17	9	14	5
4	9	21	4
6	8	13	4
30	7	2	4
20	7	22	3
3	7	10	3
27	6	1	3
24	6		
Total - - - - -		270.	
Median - - - - -		7.	
Mean - - - - -		8.2	
Range - - - - -		22 - 3	

Table XXI shows that a great number of definitions of words which sounded similar to the stimulus words were given by the subjects. The most significant fact shown in this table is the wide range which is from 22 to 3, or 19. The highest individual gave 7.3 times as many definitions of this type as the lowest subject. The highest fourth gave approximately 3.9 times as many as the lowest fourth. The small differences between the median and the mean indicates that the distribution is slightly skewed.

Since a number of the definitions classified as similar are not similar as to sound but as to classification, the latter were considered separately. Table XXII gives for

each subject the number of definitions of words similar as to classification to the stimulus words.

TABLE XXII

Frequency of definitions of words similar as to classification, to the Stimulus Words, Given by Each Subject.

Child's Number	Number of Definitions of Similar Words	Child's Number	Number of Definitions of Similar Words
26	4	11	1
23	4	8	1
12	3	6	1
4	3	23	0
29	2	31	0
27	2	30	0
19	2	25	0
10	2	24	0
2	2	20	0
1	2	16	0
32	1	14	0
25	1	13	0
22	1	9	0
21	1	7	0
18	1	5	0
17	1	3	0
15	1		
Total - - - - -		35	
Mean - - - - -		1.1	
Median - - - - -		1.0	
Range - - - - -		4 - 0	

A comparison of Tables XXI and XXII shows that 7.5 as many similar as to sound definitions were given by the subjects as similar as to classification definitions. Thirteen subjects gave no definition of the latter type and the highest fourth gave an average of only 2.7. The average number for the whole group is only 1.1. Since the total number of this type of definition is small the range is not very great, as is shown in Table XXII.

A summary of the results dealing with the total number of definitions of words similar to the stimulus words both as to sound and as to classification is given in Table XXIII.

TABLE XXIII

Summary of Results Dealing With Total Number of  
Definitions of Words Similar to  
Stimulus Words

Range	Mean	Median	S. D.	P. E.	V.
18	9.27	7	4.38	2.95	47.2

The significant fact from the standpoint of this study is the wide range which is from 4 to 22 or 18. The highest fourth gave approximately 3.3 times as many definitions of this type as the lowest fourth. The small difference between the mean and the median indicates that the distribution curve is not quite symmetrical but slightly skewed. Approximately 67.5 per cent of the middle scores fall between 13.65 and 4.89 while the middle 50 per cent fall between the limits 12.22 and 6.32. The standard deviation is approximately 47.2 per cent of the mean.

Similar word Mentioned as Response to Stimulus Words.

A considerable number of subjects, instead of defining the stimulus word responded with a similar word, for example, to the stimulus word "acre" the response of some subjects was "scorn" and to the stimulus word "locomotive" the response was "car." It seemed worthwhile to the experimenter to consider these responses separately. This section will be devoted to them.

Table XLIV gives the total number of words similar as to sound and similar as to classification given by the subjects.

TABLE XLIV

Number of similar words, instead of definition, for the stimulus words, given by each Subject

Child's Number	Number of Similar Words (Sound)	Number of Similar Words (Class)	Total	Child's Number	Number of Similar Words (Sound)	Number of Similar Words (Class)	Total
23	14	0	14	20	2	0	2
27	13	0	13	7	2	1	3
2	13	2	15	6	2	0	2
22	9	0	9	29	1	0	1
19	6	1	7	26	1	0	1
33	7	0	7	23	1	0	1
28	7	0	7	13	1	0	1
21	6	1	7	12	1	0	1
9	6	0	6	10	1	0	1
7	5	2	7	3	1	0	1
4	5	1	6	17	0	1	1
5	4	0	4	32	0	0	0
13	3	0	3	30	0	0	0
12	3	0	3	24	0	0	0
8	3	0	3	13	0	0	0
1	3	0	3	14	0	0	0
31	2	0	2				
Total - - - - -					134.0	9.0	143.0
Mean - - - - -					4.1	0.3	4.3
Median - - - - -					2.0	0.0	2.0
Range - - - - -					14 - 0	2 - 0	14 - 0

Inspection of Table XLIV shows that most of the words used were similar as to sound rather than as to classification. The total number of the former is 134 while that of the latter is 9. In other words the former is approximately 14.9 times the latter. The most significant fact shown in this table from the standpoint of this study is the wide range in the number of words similar in sound.

to the stimulus word and in the total number of similar words. The range in both cases is from 14 to 0. The highest fourth gave approximately 26 times as many responses of this type as did the lowest fourth.

Stimulus word included in definition. A study of the responses revealed that a great number of the subjects mentioned the word to be defined in the definition. Table XIV shows the number of definitions including the stimulus word given by each subject.

TABLE XIV

Frequency of using stimulus word in response

Child's Number	Number of Responses Using Stimulus Word	Child's Number	Number of Responses Using Stimulus Word
3	38	9	22
14	35	6	20
11	34	32	19
12	31	24	19
28	28	23	15
25	28	2	19
19	28	22	17
17	28	20	17
8	27	3	17
31	26	33	14
13	26	27	14
10	26	7	14
18	24	16	13
21	23	26	10
15	23	4	8
30	22	1	6
29	22		
Total - - - - -		712.0	
Mean - - - - -		21.6	
Median - - - - -		22.0	
Range - - - - -		38 - 6	

Here again the wide distribution is of interest. The range is 32. The highest individual used the stimulus words

in his responses 6.3 times as often as the lowest one. The highest fourth used it 2.7 as many times as the lowest fourth. The mean and median are approximately the same which shows that the distribution curve is fairly symmetrical.

A summary of the results dealing with a study of the use of the stimulus words in the responses is given in Table XXVI.

TABLE XXVI

Summary of Results Dealing With Use of Stimulus Words in Responses

Range	Mean	Median	S. D.	P. E.	V.
32	21.6	22	7.56	5.10	35.

In addition to the significant range of 32 Table XXVI shows that the mean and median are approximately the same which indicates that the distribution curve is fairly symmetrical. From the mean, the standard deviation, and the probable error it is evident that approximately two-thirds of all the scores fall between the limits 29.16 and 14.04 while one-half of them fall between 26.7 and 16.5. The coefficient of variation shows that the standard deviation is approximately 35 per cent of the mean.

Other Wrong Responses. A consideration of the definitions shows that a number of the wrong responses are not definitions of words similar to the stimulus words nor show any association with the stimulus words. Table XXVII gives the frequency of use of this type of definition by each subject. The results are summarized Table XXVIII.

TABLE XXVII

Frequency of Wrong Responses which showed neither  
Similarity to nor Class Relationship With  
The Stimulus Word

Child's Number	Number of Wrong Responses	Child's Number	Number of Wrong Responses
26	11	18	3
11	11	16	3
12	11	10	3
23	9	4	3
21	8	31	2
29	7	22	2
6	7	19	2
8	6	7	2
5	6	27	1
3	6	24	1
2	6	17	1
33	5	15	1
28	5	14	1
25	5	1	1
30	4	32	0
20	4	13	0
9	4		

TABLE XXVIII

Summary of Results Dealing With Wrong Responses  
Which Showed Neither Similarity to nor  
Relationship With Stimulus Words

Total	Range	Mean	Median	S. D.	P. E.	V.
141	11	4.3	4	3.16	2.15	73.4

Tables XXVII and XXVIII show a significant range. The frequency of the highest fourth is approximately 11.7 times that of the lowest fourth. The mean is approximately 4.3 while the median is 4, which indicates that the distribution is very slightly skewed. Approximately two-thirds of the scores fall between the limits 7.46 and 1.14 and one-half of them between 6.43 and 2.17. The standard deviation is

approximately 73.4 per cent of the mean.

Other Responses Receiving No Credit. Other responses receiving no credit, which were considered were: repetition of stimulus word instead of a definition, and the response "I don't know." The investigator planned also to consider the frequency of "no response" but since only one subject failed to respond to one word this will not be taken up in the following table and discussion.

Table XXIX shows the frequency of (1) repetition of the stimulus word instead of defining it, and (2) the response "I don't know."

TABLE XXIX

Frequency of Response, "I don't know," and of  
Repetition of Stimulus Word

Child's Number	"I don't know" Response	Stimulus Word Repeated	Child's Number	"I don't know" Response	Stimulus Word Repeated
1	65	0	23	36	1
7	58	0	18	36	0
10	55	0	3	36	0
4	51	0	17	35	0
13	50	0	33	34	0
29	49	1	16	32	0
20	47	0	22	30	0
32	44	0	21	30	1
27	44	0	2	30	0
6	44	0	28	26	0
15	43	0	25	26	0
26	42	0	12	25	0
5	42	2	19	24	0
24	41	0	11	23	0
14	40	1	31	20	0
30	37	0	8	19	1
9	37	0			

Table XXIX shows a comparatively small number of responses consisting of only a repetition of the stimulus word but a large frequency of the response "I don't know."

This response was given a total of 1,280 times by the subjects. This table shows a wide range, namely, 46. The highest individual gave 3.4 times as many responses of this type as the lowest subject did. The highest fourth gave approximately 2.2 times as many as the lowest fourth.

A summary of the results dealing with the response "I don't know" is given in Table XXX.

TABLE XXX

Summary of Results Dealing With the Response  
"I don't know"

Total	Range	Mean	Median	S. D.	P. E.	V.
1,280	46	38.8	37.0	10.96	7.39	28.25

In addition to the significant range of 46 Table XXX shows that there is a light difference between the mean and the median showing that the distribution curve is slightly skewed. The mean, standard deviation, and the probable error show that approximately two-thirds of the scores are within the limits 27.84 and 49.76 and one-half between 31.41 and 46.19. The standard deviation is approximately 28.25 per cent of the mean.

Frequency of Slang Use of Words, Defined. The slang use of some words was defined by only a few subjects. A total of only 8 such definitions was found. Table XXXXI shows the distribution of these responses among the subjects.

TABLE XXII

Frequency of Defining the Slang Use of Stimulus Words.

Child's Number	Number of Slang Words Defined	Child's Number	Number of Slang Words Defined
24	2	14	1
33	1	9	1
30	1	4	1
17	1		

Table XXII shows that six subjects gave only one definition of this type and the seventh subject gave two. The small number of definitions of this type no doubt is partly due to the small number of words in the two lists which are commonly used as slang.

Comparison of the number of nouns, verbs, and adjectives defined. The vocabulary studies that include findings concerning the various parts of speech show that the vocabularies of five-year old children contain more nouns and verbs than adjectives. Dr. Margaret Smith, in her study of the development of the sentence, found that "At two years, verbs, nouns, and adverbs were more frequently used than adjectives and connectives, and at three and four years verbs and pronouns were more frequently used than adjectives, articles, interjections, and connectives."<sup>1</sup>

A comparison of the number of nouns, verbs, and adjectives defined is taken up in this section. The word lists of this study contain 90 nouns including all words

<sup>1</sup>An Investigation of the Development of the Sentence and the Extent of Vocabulary in Young Children. p. 66

which according to Webster's Dictionary may be used as nouns even if they are also used as adjectives, verbs, or other parts of speech; 53 verbs, including all words which may be defined as verbs no matter whether that use of the word is the most common or not; and 26 adjectives which also include all words which according to Webster's Dictionary may be used as adjectives.

Table XXXII gives the total number of words defined as nouns, verbs, and adjectives by each subject.

TABLE XXXII

Number of Nouns, Verbs, and Adjectives Defined  
by Each Subject

Child's Number	Number of Nouns	Number of Verbs	Number of Adject's	Child's Number	Number of Nouns	Number of Verbs	Number of Adject's
1	31	3	4	18	39	15	10
2	36	14	6	19	35	19	11
3	41	15	8	20	37	12	6
4	31	5	7	21	42	17	7
5	39	10	6	22	36	12	7
6	32	12	6	23	28	11	5
7	27	10	7	24	40	14	7
8	45	17	11	25	33	14	5
9	33	9	6	26	35	10	7
10	28	13	7	27	29	9	7
11	36	17	7	28	36	18	6
12	41	14	8	29	33	12	8
13	36	15	8	30	39	19	6
14	40	15	10	31	47	15	12
15	46	13	11	32	39	14	10
16	36	14	9	33	31	7	7
17	44	13	8				
Total - - - - -					1201	427	250

Investigation of Table XXXII shows a wide variation in the number of nouns, verbs, and adjectives defined by the different subjects. Each subject defined more nouns than verbs or adjectives which would be expected since

investigations show that the proportion of nouns is greater than that of verbs or adjectives and also because in the word list the proportion of nouns is greater than that of verbs or adjectives, as was shown above. All subjects excepting three defined more verbs than adjectives. As a group the subjects defined 2.8 times as many nouns as verbs, 4.8 times as many nouns as adjectives and 1.7 times as many verbs as adjectives.

To show the variations more closely, the nouns, adjectives, and verbs are treated separately in Tables XXXIII, and XXXIV. Table XXXIII shows the total number of nouns defined by each subject.

TABLE XXXIII

Number of Nouns Defined by Each Subject

Child's Number	Number of Nouns Defined	Child's Number	Number of Nouns Defined
31	47	13	36
13	46	11	36
8	45	2	36
17	44	26	35
21	42	19	35
12	41	29	35
3	41	25	33
24	40	9	33
14	40	6	32
32	39	33	31
30	39	4	31
18	39	1	31
5	39	27	29
20	37	23	28
28	36	10	28
22	36	7	27
16	36		
Total - - - - -			1201.0
Mean - - - - -			36.4
Median - - - - -			36.0
Range - - - - -			47 - 27

Investigation of table XXXIII shows a significant

range, namely 20. The highest fourth defined approximately 1.3 times as many nouns as the lowest fourth. The mean is 36.4 and the median is 36, which shows that the distribution is practically symmetrical.

The total number of verbs defined by each subject is shown in Table XXXIV and that of adjectives is shown in Table XXXV.

TABLE XXXIV

Number of Verbs Defined by Each Subject

Child's Number	Number of Verbs	Child's Number	Number of Verbs
30	19	17	13
19	19	15	15
28	18	10	12
21	17	29	12
11	17	22	12
8	17	20	12
31	13	6	12
12	13	23	11
14	13	25	10
13	15	7	10
5	13	5	10
32	14	27	9
25	14	9	9
24	14	33	7
16	14	4	5
12	14	1	3
2	14		
Total - - - - -			427
Mean - - - - -			12.9
Median - - - - -			14.
Range - - - - -			19 - 3

TABLE XXXV

Number of Adjectives Defined by Each Subject

Child's Number	Number of Adjectives	Child's Number	Number of Adjectives
31	12	15	11
19	11	8	11

TABLE XXXV  
(Continued)

## Number of Adjectives Defined by Each Subject

Child's Number	Number of Adjectives	Child's Number	Number of Adjectives
32	10	11	7
18	10	10	7
14	10	7	7
16	9	4	7
29	8	30	6
17	8	28	6
13	8	20	6
12	8	9	6
3	8	6	6
33	7	5	6
27	7	2	6
26	7	25	5
24	7	23	5
22	7	1	4
21	7		
Total - - - - -			250.
Mean - - - - -			7.6
Median - - - - -			7.
Range - - - - -			12 - 4

Investigation of Table XXXIV and XXXV shows a comparatively wide range similar to that found for nouns. The range for the verbs is 16. The highest individual defined approximately 6.3 times as many verbs as the lowest individual. The highest fourth defined 2.2 times as many as the lowest fourth. The mean is 12.9 and the median 14 showing that the distribution curve is slightly skewed. For adjectives the difference is not so great. The mean is 7.6 and the median is 7. Table XXXV shows the range to be from 12 to 4, or 8. The highest individual defined three times as many adjectives as the lowest one, while the highest fourth gave approximately 1.9 times as many as the lowest fourth.

Frequency of knowledge of the various words used in this study. It seemed worthwhile to the experimenter to make a study of the frequency of correct responses to the various stimulus words. A summary of the frequency of knowledge of each of the words in the test by the subjects is shown in Table LXXVI.

TABLE LXXVI

Frequency of knowledge of words in Vocabulary  
Test of 33 Children

: Frequency of : Test Word: Knowledge : : Children : Percent : : : (of 33):			: Frequency of : Test word: Knowledge : : Children: Percent : : : (of 33):		
ball	33	100	sneak	26	85
bell	33	100	fireman	27	82
sidewalk	33	100	mower	27	82
star	33	100	lie	26	79
tire	33	100	travel	26	79
truck	33	100	boiler	25	76
wagon	33	100	bun	25	76
chair	33	100	noon	25	76
dinner	32	97	Robert	25	76
hang	32	97	sorry	25	76
money	32	97	kindness	24	73
pan	32	97	asleep	24	73
sailboat	32	97	sweet	23	70
leader	31	94	bruise	22	67
reader	31	94	coast	22	67
stem	31	94	cooler	22	67
string	31	94	drove	21	64
chew	30	91	nice	21	64
perfume	30	91	thunderstorm	21	64
present	30	91	nip	20	61
feet	29	88	Friday	19	58
field	29	88	teray	18	55
good-by	29	88	below	17	52
green	29	88	awhile	16	48
program	29	88	matter	16	48
yellow	29	88	granddaughter	14	42
barnyard	28	85	part	14	42
don't	28	85	bitter	13	39
lemon	28	85	globe	13	39
pick	28	85	married	13	39
pray	28	85	sang	13	39
rest	26	85	seen	13	39

TABLE XXXVI

(Continued)  
Frequency of Knowledge of Words in Vocabulary  
Test of 33 Children

Test Word :	Frequency of Knowledge :	Test Word :	Frequency of Knowledge :		
Children :	Percent :	Children :	Percent :		
:	(of 33) :	:	(of 33) :		
anybody	12	36	spur	5	9
buzz	12	36	uneasy	3	9
butch	12	36	aisle	2	6
cling	11	33	beach	2	6
denatured	9	27	beetle	2	6
jolly	8	24	echo	2	6
lark	8	24	insist	2	6
must	8	24	asylum	1	3
harsh	7	21	gaze	1	3
orier	7	21	jury	1	3
wig	7	21	locomotive	1	3
could	6	18	merry	1	3
either	6	18	native	1	3
sere	5	15	anguish	0	0
rench	5	15	auger	0	0
single	5	15	brilliant	0	0
style	5	15	clever	0	0
acide	4	12	column	0	0
cozy	4	12	delay	0	0
despise	4	12	departure	0	0
growth	4	12	disorder	0	0
stork	4	12	gallant	0	0
crept	3	9	hospitable	0	0
expression	3	9	issue	0	0
magnify	3	9	Saxon	0	0

Observation of Table XXXVI shows that there is great variation in the number of subjects who gave correct responses to the various words. Of the 114 words only 7 words or 6 per cent were defined correctly by each of the 33 subjects, 13 words or 11 per cent were defined correctly by at least 32 subjects, 20 or approximately 18 per cent were defined by 30 subjects or more. Fifty per cent of the words were defined by 16 or approximately 48 per cent of the subjects. Twelve or approximately 10 per cent of the words were not defined by any subject.

Observation of this table also shows that a great number of words commonly believed to be understood by kindergarten children cannot be defined by a majority of the children. One cannot be certain whether this inability to define the words is due to lack of knowledge of their meaning, to difficulty of expressing their idea of the meaning in words, or to something else. Since the responses were free and unrestrained, that is, no restrictions as to the manner in which a word was to be defined were given to the subjects it is highly probable that in many cases inability to define such words was due to lack of a clear understanding of the meaning of the word.

The most significant fact shown in Table XXXVI is the great variation on the part of the subjects in the frequency of knowledge of the different words.

The Nature of Individual Differences in Defining Words  
as Shown by Correlations.

Next a consideration of differences as shown by correlations is taken up. The correlation between the total number of words defined correctly and intelligence as found by the Stanford Revision of the Binet-Simon Intelligence Scale, and the correlation between the number of words defined correctly and the mental age as determined by the above test were considered first. The coefficients of correlation for these are given in Table XXXVII.

TABLE XXXVII

Correlations Between the Total Number of Words  
Defined Correctly and (1) Intelligence  
and (2) Mental Age.

	Total Number of Words Defined Correctly		
Intelligence Quotients	.49	$\pm$	.09
Mental Age	.47	$\pm$	.09

Inspection of Table XXXVII shows a fairly high correlation between the number of words defined and intelligence, as found by the Stanford Revision of the Binet-Simon Intelligence Scale, and between the number of words defined and mental age as found by the same test. This relationship is high enough to indicate that the lack of intelligence may be a limiting factor in some cases where children have a small vocabulary. Lewis M. Terman found a high correlation between intelligence and word knowledge. He says: "The vocabulary test has a far higher value than any other single test of the scale. Used with children of English-speaking parents ..... it probably has a higher value than any three other tests in the scale. Our statistics show that in a large majority of cases, the vocabulary test alone will give us an intelligence quotient within 10 per cent of that secured by the entire scale."<sup>1</sup>

Correlations of Mental Age and Intelligence with "Use Definitions" and "Superior to Use Definitions" The correlations between mental age and also intelligence and

<sup>1</sup> The Measurement of Intelligence, p. 230.

(1) "use definitions" and (2) "superior to use definitions" were found. Table XXXVIII shows the coefficients of correlation obtained.

TABLE XXXVIII

Correlations Between the Number of "Use Definitions" and "Superior to Use Definitions" and (1) Intelligence and (2) Mental Age

	"Use Definitions"	"Superior to Use Definitions"
Intelligence	-.31 $\pm$ .10	.53 $\pm$ .08
Mental Age	-.42 $\pm$ .09	.60 $\pm$ .07

Observation of Table XXXVIII shows that there is between mental age and "superior to use definitions" a fairly high positive correlation; between mental age and "use definitions" a substantial negative correlation; between intelligence and "superior to use definitions" a fairly high positive correlation; and between intelligence and "use definitions" a low negative correlation. The probable error of  $\pm .10$  shows that one cannot be certain that this result would hold true for other samplings. The low correlations found for "use definitions" probably are due to the limited age range (kindergarten) of the subjects. A greater range in ages undoubtedly would have influenced the coefficient of correlation. The results of Table XXXVIII show that the higher the mental age of the child the smaller the number of "use definitions". This is in agreement with what is expected in the Binet - Simon Intelligence Scale.<sup>2</sup>

<sup>2</sup> Lewis M. Terman, op. cit., p. 224.

A child of 5 years is expected to define four words out of six in terms of use or better than use. As he grows older the number of definitions in terms of use gradually decreases and the number of words defined in terms superior to use increases until at the mental age of 8 years he is expected to have developed beyond the stage of use definitions into the descriptive or classificatory stage.

Table XXXVIII shows that there is a similar relationship between intelligence and "superior to use definitions" and intelligence and "use definitions" as between mental age and "superior to use definitions" and mental age and "use definitions." It should be remembered that most of the subjects of this study are approximately five to six years of age chronologically and that therefore in the majority of cases those of higher mental age are also those of higher intelligence.

Correlations of Mental Age and Intelligence With Use of Stimulus Words in Responses and With Use of Words Similar to Stimulus Words. In this section a study is made of the relationship between mental age and the use of stimulus words in responses; between intelligence and the use of stimulus words in responses; between mental age and the use of words similar to stimulus words; and between intelligence and the use of words similar to stimulus words.

If an individual is of high intelligence will he less often use the stimulus word in his response than an individual of low intelligence? Will an individual of low mental age use the stimulus word in his response more often than the individual who has a high mental age? Is there any

relationship between the frequency of defining a word similar to the stimulus word instead of the stimulus word and intelligence? A study of the correlations presented in Table XXXIX should help answer these questions.

TABLE XXXIX

Correlations of Mental Age and Intelligence With  
Use of Stimulus Words in Responses and  
Use of Definitions of the Words  
Similar to Stimulus Words.

	M. A.	I. Q.
Use of Stimulus Words in Responses	.35 $\pm$ .102	.36 $\pm$ .10
Def. of Words Similar to Stim. Word-	.045 $\pm$ .17	.29 $\pm$ .107

Inspection of Table XXXVIII shows a low positive correlation between the use of stimulus words in responses and (1) mental age and (2) intelligence quotients. The probable errors indicate that one cannot be certain that these coefficients of correlation would hold true for other samplings. The correlations between the use of definitions of words similar to stimulus words and (1) mental age and (2) intelligence are not sufficiently large to satisfy the demands of significance. Thus one could not say that there is a significant relationship between mental age or intelligence and the frequency of defining words similar to stimulus words instead of the stimulus words. This indicates that the great variation in the number of definitions of the latter type shown in Tables XXI, XXII, and XXIII can be attributed to neither the variation in intelligence nor variation in mental age.

Individual Differences in Defining Words as  
Influenced by Various Factors.

A rather detailed study of individual differences in defining words as shown by central tendencies and dispersions, and also of the nature of some of these individual differences as indicated by correlations has been made. This section will be devoted to a consideration of the influence that sex, age, and other factors have upon individual differences in defining words.

Individual Differences in Defining words as Influenced by Intelligence. To show more clearly the influence of intelligence on individual differences in defining words the average scores of the different intelligence groups have been calculated. Table XL shows the average number of words defined correctly, the average number of "use definitions," "superior to use definitions," "I don't know responses," and definitions of words similar to stimulus words given by the various intelligence groups.

TABLE XL

Average Scores of Different Intelligence Groups  
on Basis of Most Important Kinds of  
Responses Studied

I. Q.	Number of Cases	No. of Correct Def.	No. of "Use Def."	No. of "Superior to Use Def."	No. of "I don't know Resp."	No. of Similar Words Defined
125-134	3	62.8	10.0	32.0	28.6	11.0
115-124	8	56.7	17.8	20.4	44.4	5.6
105-114	11	55.9	16.7	18.8	30.1	12.0
95-104	6	47.3	18.8	14.8	44.0	8.0
85- 94	5	48.8	21.0	13.0	42.2	13.6

Examination of Table XI shows that the subjects in the intelligence group 125 - 134 defined the greatest number of words correctly, used the smallest number of "use definitions," defined the greatest number of words in terms superior to use and gave the response "I don't know" the least number of times.

There is a progressive decrease beginning with the 125 - 134 I. Q. group and going on down to the 85 - 94 I. Q. group in the number of words defined correctly, and in the number of "superior to use definitions" given, with the exception of the 95 - 104 I. Q. group of the former which is slightly smaller than that of the 85 - 94 I. Q. group. In the number of words defined in terms of use there is a progressive increase beginning with the 125 - 134 I. Q. group and going on down to the 85 - 94 I. Q. group with the exception of the middle group which is slightly lower than that of the 115 - 124 I. Q. group. Although the increase in the number of "I don't know responses" and in the number of words, similar to stimulus words, defined is not progressive, in each case the number for the 125 - 134 I. Q. group is lower than that of the 85 - 94 I. Q. group and for the former is lowest of all the groups.

The most important fact derived from a study of this table is that intelligence is an important factor in the ability to define words. In the number of words defined correctly a difference of 15.5 would indicate a considerable difference if the total vocabularies of these groups were calculated.

Individual Differences in Defining Words as Influenced by Mental Age. Since mental age is considered one of the important factors determining individual differences in children, it seemed worthwhile to find to what extent mental age influences individual differences in defining words.

In Table XLI are shown the average number of: words defined correctly; "use definitions"; "superior to use definitions"; "I don't know responses"; and definitions of words similar to stimulus words given by the various groups.

TABLE XLI

Average Scores of Different Mental Age Groups  
on Basis of Most Important Kinds of  
Responses Studied

M. A. in Months	Number of Cases	No. of Words Defined Correctly	No. of "Use Def."	No. of "Superior to Use Def."	No. of "I Don't Know Resp."	No. of Similar Words Def.
66 and less	6	44.3	20.2	12.4	49.2	9.4
67-72	7	50.8	18.1	15.0	38.6	11.1
73-78	12	55.6	18.3	17.7	34.5	10.3
79-84	5	56.9	14.6	24.4	40.6	7.4
85 and over	3	64.3	10.3	32.8	36.5	7.0

Examination of Table XLI shows that the highest mental age group received the best score in each case excepting for the "I don't know responses" in which the score for the 73-78 mental age group was slightly better. It should be remembered that the best score for words defined correctly and for "superior to use definitions" is the highest score while that for the other types is the lowest score. The subjects in the lowest group, 66 and less, made the

least desirable score in each case excepting for definitions of words similar to stimulus words, in which the 65 - 72 and the 71 - 78 mental age groups made slightly less desirable scores.

The significant fact to be noted is that the different mental age groups differ and especially that there is a considerable difference between the highest and the lowest group.

Individual Differences in Defining Words as Influenced by Sex. Since sex is generally considered as one factor determining individual differences in people, the boys and girls used in this study were compared with reference to individual differences in defining words.

It was found that the group of boys and the group of girls are of practically the same intelligence, mental age, and chronological age. The average intelligence quotient for the girls was 109.9 while that of the boys was 109.6, the average mental age in months of the girls was 74.1 while that of the boys was 71.4, and the average chronological age of the girls was 67.9 while that of the boys was 65.1.

For means of comparison Table XLII shows the average accomplishments of the boys and that of the girls.

TABLE XLII

Average Scores of Boys and of Girls on Basis of  
Most Important Kinds of Responses Studied

	No. of Correct Def.	No. of "Use Def."	No. of "Superior to Use Def."	No. of "I don't know" Def.	No. of Similar Word Def.	No. of Stim. Words in Def.
Girls	54.9	17.3	19.1	38.5	7.9	22.4
Boys	53.9	17.6	18.5	37.5	10.8	21.0

Examination of Table XLIII shows that there is very little difference between the responses of boys and the responses of girls. In words defined correctly in "use definitions," in "superior to use definitions," and in words similar to stimulus words defined the girls got the more desirable scores, while in the remaining two kinds of responses the boys scored better. It should be remembered that for the number of correct definitions and for the number of "superior to use definitions" the better scores are the highest scores, while for the other definitions the lowest scores are the most desirable. The difference is too small, however, to demand individual differences in instruction.

Individual Differences in Defining Words as Influenced by Social Status. Since the social status of children is often considered to be one cause of individual differences it was considered in this study. In the description of the subjects in Chapter III the social status of the children as determined by the occupation of their parents is given. It was shown that the fathers of the subjects represented a number of different occupations, namely 8 salesmen, 8 day laborers, 6 professional, 2 miners, 2 store clerks, and 1 of each of the following: rural mail carrier, railway clerk, barber, sheriff, county treasurer, mechanic, and farmer.

The average scores of the children whose fathers belonged to the different occupational groups are presented in Table XLIII.

TABLE XLIII

Average scores Based on the Most Important Responses  
Studied, According to Social Status

Social Status	No. of Cases	Number of Correct Def.	Number of "Use to Use" Def."	No. of "Superior" to Use" Def.	No. of "I don't know" Resp.	No. of Similar Word Def.
Professional	8	59.1	12.6	25.4	32.5	10.8
Day Laborers	8	47.4	18.9	12.5	43.3	10.3
Salesmen	7	57.1	17.	20.3	39.1	7.4
Miscellaneous	10	54.4	18.	19.5	37.1	9.5

Inspection of Table XLIII shows that the professional group received the best score in each case and the day laborer group the least desirable score, excepting for the average number of words similar to stimulus words defined, in which the professional group received the least desirable, that is the highest, score and the salesmen group received the best score, that is the smallest. The professional group is approximately 24.7 per cent higher than the lowest, the day laborer group, in the average number of words defined correctly and 103.2 per cent higher in the average number of "superior to use definitions" given. The day laborer group gave 50 per cent more "use definitions," and 33.2 per cent more "I don't know" responses than the highest or professional group.

The significant fact to be noted is the variation between the groups especially between the highest and the lowest groups. By way of summarizing the results of this part of the investigation, then, it has been shown that there is a considerable difference between the various groups, especially between the professional and the day laborer group in favor

of the former. No definite conclusions, however, can be drawn because the number of cases is too small.

### Summary and Further Interpretation of Results

In the preceding paragraphs of this chapter the results of this investigation have been given in detail with some explanations and interpretations. This section will be devoted to a summary of the results and further interpretations.

### Interpretation of Results Based on Central Tendencies and Dispersions

The most significant fact that was brought out in the whole study is the wide range found among the various subjects. To show more clearly the ranges found in the different factors investigated, a summary of these ranges and the averages are given in Table XLIV.

TABLE XLIV

Summary of Ranges and of Averages for Various Factors Studied

Factor	Highest Score	Lowest Score	Range	Mean Score	Coef. of V.
Number of Correct Definitions--	74	34	40	54.5	15.4
No. Of "Use Definitions"-----	27	2	25	17.4	39.6
No. of "Superior to Use" Def.--	46	7	39	18.8	45.5
Def. of Words Similar to					
Stimulus Word-----	22	4	18	9.3	47.2
Stimulus Word used in Def.-----	38	6	32	21.6	35.0
Wrong Responses Which Showed no					
Similarity to Stim. Word--	11	0	11	4.3	73.4
Response "I don't Know"-----	65	19	46	38.8	28.2

Inspection of Table XLIII shows a wide range for each factor presented in the table. A study of these results leads to the conclusion that there is a great variation in

word knowledge and ability to define words among children of kindergarten age. A great variation in how the various subjects apperceive the words or the objects for which they stand is evident. Some think of the use of the object asked to define while others think of it in terms superior to use such as its color, shape, size, composition, class relationship, etc. It will be noted that the ranges for the different factors vary from 11 to 46. The widest range, namely 46, was found for "I don't know responses" and the next widest, 40, was found for correct definitions. The range for "superior to use definitions" is also very wide. A significant range is evident for each factor.

Undoubtedly it is impossible for children varying so greatly with reference to vocabulary to do the same kind and amount of school work. Since investigations show that there is a high relationship between vocabulary and reading ability it is very important that as much help as possible be given to the kindergarten or first grade child since there the background for later school work is formed. Word knowledge is important enough to receive special consideration in the kindergarten and first grade. In the pupil's later school work if he fails to get the meaning of the more important words in his reading material, whether it be in arithmetic, reading, geography, or any other school subject, he is greatly handicapped. Much depends upon the kindergarten or first grade teacher as to whether the children in her charge will continue their school work with a rich or a meager background from the standpoint of vocabulary.

Interpretation of Correlations. A fairly high correlation was found between intelligence and the number of words defined correctly, and between mental age and the number of words defined correctly. The relationships are high enough to indicate that the lack of intelligence or a low mental age may be a limiting factor in the extent of vocabulary of some individuals.

The correlations between the number of "superior to use definitions" and intelligence, and between the number of "superior to use definitions" and mental age were also fairly high. A substantial negative correlation was found between mental age and the number of "use definitions." These relationships indicate that there is a tendency for the kindergarten children of high intelligence and for kindergarten children of high mental age to define more words in terms superior to use and a smaller number of words in terms of use.

The correlations of mental age and of intelligence with (1) the use of stimulus words in responses and (2) definitions of words similar to stimulus words showed no significant relationships.

Interpretations of Individual Differences in Defining Words as Influenced by Various Factors. Intelligence makes a significant difference within the limits here studied, in the number of words defined correctly and in the number of "superior to use," "use" and the "I don't know" responses given. The group of highest intelligence received better scores in each of the above mentioned than any of the other

intelligence groups. It should be remembered that for the number of words defined correctly and for "superior to use definitions" better refers to higher scores while for the other types of definitions it refers to lower scores. In the average number of words defined correctly the group with intelligence quotients within the 125-134 range scored 28.7 per cent higher than the group which had intelligence quotients within the 85-94 range. These findings lead to the same conclusion that the results of the correlations between these factors led to, namely, that intelligence may be a limiting factor in the number of words an individual knows and in the kinds of definitions he gives.

The differences between the different mental age groups were practically the same as those found for the different intelligence groups. This is what would be expected, since the chronological age of most of the subjects was practically the same. The group of subjects whose mental age was 66 and less defined 96 per cent more words in terms of use than the group whose mental age was 83 and over. The latter group defined 164 per cent more "superior to use definitions" than the lowest group. The highest group defined 45 per cent more words correctly than the lowest group. These findings indicate that mental age is a limiting factor in the number of words young children can define and also in the kinds of definitions they give. The differences found in this study are large enough to justify differentiation of instruction, but the number of subjects used in this study is too small to justify any definite conclusions.

There seems to be no significant difference in defining words between boys and girls. The girls in this study made a slightly better score in the number of words defined correctly, "use definitions," "superior to use definitions," and in the number of definitions of words similar to the stimulus words, while the boys made a better score on the number of "I don't know" responses and on the number of stimulus words used in the definitions. The differences, however, are too small to be of any consequence.

Social status seems to account for some differences in children with reference to vocabulary. The professional group was found to be approximately 24.7 per cent higher than the day laborer group in the number of "superior to use definitions" given. The day laborer group gave 56 per cent more use definitions, and 32.3 per cent more "I don't know" responses than the professional group. The differences between the salesmen group and the miscellaneous group were smaller. Although the differences found in this study are quite large no definite conclusions can be drawn because the number of cases is too small.

The factors discussed in this section may influence a child's vocabulary. It is probable that under certain conditions some of these factors may cause classroom problems.

## CHAPTER VII

### CONCLUSIONS AND EDUCATIONAL IMPLICATIONS

#### General Conclusions

The preceding chapter has been devoted to a detailed presentation and interpretation of results with a final summary of the results in the last section of the chapter. Certain findings presented appear to be clear enough to warrant the following conclusions:

1. Very great individual differences exist in kindergarten children with reference to ability to define words.
2. The individual differences are very great with reference to the manner in which a word is defined.
3. Extreme individual differences exist in kindergarten children with reference to the manner in which they apperceive words or the objects for which the words stand, that is, whether an object is thought of in terms of use or in terms superior to use such as of its size, shape, color, composition, or class relationship.
4. There is a tendency for kindergarten children of higher mental age and intelligence to give a smaller number of "use definitions" and a larger number of "superior to use definitions" than those of lower mental age and intelligence.
5. Kindergarten children who are best with reference to word knowledge know twice as many words as those who are poorest.
6. Individual differences in extent of word knowledge are great enough in some cases to demand special individualized instruction.
7. A great number of words which are in common daily

use both by children and adults cannot be defined by a large per cent of kindergarten children.

8. In kindergarten children the extent of word knowledge as measured in this study bears a close relationship to mental age.

9. The extent of word knowledge in kindergarten children as measured in this study, is closely related to intelligence.

10. Kindergarten children more frequently define nouns and verbs than adjectives.

11. An individual who gives good definitions for nouns is likely to give good definitions for verbs and adjectives, but there are some exceptions.

12. There are practically no differences between kindergarten boys and girls in ability to define words as measured in this study.

13. According to the findings of this study, the ability of kindergarten children to define words is likely to be influenced by their social status.

14. Since word knowledge in different children may be influenced by various factors combined in many different ways, instruction should be a matter of individual help for a number of children.

#### Pedagogical Implications

It has been shown that extreme individual differences exist in kindergarten children with reference to word knowledge and ability to define words and it has been suggested

that instruction should be given in the light of these findings to meet individual needs. As to what can be done under present teaching conditions the writer has several suggestions to offer.

Since all pupils do not need the same treatment the locating of individual needs should first be undertaken. The great number of factors to be considered in locating individual needs necessitates the use of a number of different techniques. Since intelligence and mental age are important factors in word knowledge it would seem worthwhile to administer a reliable mental test. This should be followed by a reliable vocabulary test for young children. Careful study and observation records of special needs should supplement these tests. Since social status seems to have a considerable influence on kindergarten childrens' vocabularies it would probably be advisable that the childrens' home environment be considered. Some children come from homes where reading is one of the chief activities. The young child is read to frequently and shown pictures. He is probably told stories about pictures and is encouraged to make up stories about them. Other children are not so fortunate. They have never come in contact with people who read and have never acquired an attitude which regards books as valuable possessions. The differences between such children will be considered by a good teacher and her program will be adapted to their needs.

After the needs of the different pupils have been lo-

cated, each must be given special consideration. This does not necessarily mean that the pupils should be divided into a number of groups, although some division would probably be beneficial in some cases. Certain instruction with reference to vocabulary will probably be valuable to all members of the class, but some defects or special abilities will need individual and specific treatment. Enriching the school curriculum would probably be worthwhile in a great number of kindergarten classes.

Individual differences with reference to vocabulary will always exist because of differences in heredity and environment but better instruction can help considerably in giving each individual as much of an equal opportunity as possible.

#### Problems for Further Study

This study suggests a great number of problems for further investigation, some of the most important of which are listed below.

1. Study of individual differences in vocabulary of kindergarten children where an attempt has been made to enrich the curriculum.
2. Study of the development of word definitions and the growth of meanings in young children.
3. Study of individual differences in vocabulary of kindergarten children from poor homes and from comfortable homes.
4. Further study of individual differences in vocabu-

lary as influenced by sex.

5. Study of the rate at which kindergarten children add new words.

6. Study of grammatical errors made by children in defining words.

7. Study of individual differences in vocabularies of children in primary grades.

8. Further study of differences in apperception of words found in young children.

9. Study of verbs in vocabularies of kindergarten children.

10. Study of relation of ambidexterity to vocabulary in young children.

11. Use of the words selected for this study in developing a test for measuring the extent of vocabulary.

12. Study of the best methods of improving vocabularies of kindergarten children.

13. Study of the extent to which vocabulary defects in kindergarten children are limiting factors in their success in the primary grades.

14. A study of the best methods of individualizing instruction.

15. Further study of individual differences with reference to parts of speech in vocabularies of kindergarten children.

16. Further study of the relationship between word knowledge and success in reading in first grade children.

APPENDIX  
TABLE I

Sample Sheet Used for Checking the List of 250 Words with  
the 20 Published Vocabularies and Word Lists

	Full	Grant	Hellis	Mateer	Nice	Bateman (J)	Brandenberg (A)	Bush	I. K. Union	Oatman	Pelsma	Rowe	Whipple	Brandenberg (B)	Beyer	Horn and Parker	Bateman (A)	Bateman (B)	Lagenheck	Boyd
lle	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
yard											✓									
h								✓	✓			✓								
le				✓							✓	✓								
ow				✓	✓		✓													
de																				
er		✓	✓	✓	✓	✓	✓		✓		✓	✓	✓		✓	✓				
s																				
er		✓					✓							✓						
anical																				
siere																				
liant		✓																		
se		✓																		
	✓								✓			✓	✓							
		✓					✓					✓	✓	✓						
er																				
icious																				
er																				
ic																				
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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