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THE USE OF CLASS DISCUSSION STIMULI IN THE DEVELOPMENT OF SOCIAL RELATIONS SKILLS OF FIFTH-GRADE PUPILS

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THE USE OF CLASS DISCUSSION STIMULI IN THE DEVELOPMENT OF SOCIAL RELATIONS SKILLS OF FIFTH-GRADE PUPILS

APPROVED BY

DISSERTATION COMMITTEE

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THE USE OF CLASS DISCUSSION STIMULI IN THE DEVELOPMENT OF SOCIAL RELATIONS SKILLS OF FIFTH-GRADE PUPILS

CHAPTER I

INTRODUCTION

Background and Need for the Study

Research in the teaching of speech on the elementary school level is a relatively unexplored area at the present time. Yet the American elementary school, perhaps more than any other academic division, affords the most numerous opportunities for its pupils to engage in oral communication. Current textbooks for elementary teachers on language arts, social studies, curriculum development, and the few existing speech improvement books proclaim the use of speech activities as techniques for improving instruction and for developing certain language and social relations skills of the elementary age child.

Few of these textbooks substantiate their recommendations with any tangible evidence of scientific inquiry, yet the speaking situations frequently found in the elementary school are included in the possible areas for research in speech. Any act of communication is in the area of speech. These acts of communicating may range from the simple sharing periods in the primary grades through special speech classes in the secondary school to the professional utilization of speech by participants in

business, the trades or the professions. 1 A great deal of research on the secondary, collegiate and adult levels constitute the bulk of the educational inquiry into speech activities and their values, while oral communication as an interaction process developed in the elementary school is often left to a few general recommendations found in textbooks and to the experience of individual teachers. Both of these often leave the classroom teacher with the idea that by simply engaging in activities where children will have to talk, entire realms of language, social and human relations skills will automatically be opened to the pupils and their deftness improved.

Fundamentally this attitude is, at least in part, desirable. There are many reasons for classroom teachers being concerned with the social relations of their pupils and its counterpart, oral communication. The American school has a major objective of helping boys and girls to develop behavior patterns that will enable them to become responsible citizens and effective community participants. All individuals must understand social conditions and forces, how groups operate, the relation of the individual to the group, and the effect of attitudes upon constructive participation in group undertakings. In the immediate surroundings of the classroom, interpersonal relations are often reflected in study skills and the acquisition of knowledge. Day-to-day problems can create chronic social frustrations which interfere with concentration on studies, and the inability to

¹J. Jeffery Auer, An Introduction to Research in Speech (New York Harper and Brothers, Publishers, 1959), p. 28.

²Eric F. Gardner and George G. Thompson, "Measuring and Interpreting Social Relations," <u>Test Service Notebook</u>, No. 22 (Tarrytown, New York: Harcourt, Brace and World, Inc., 1959), p. 1.

³Hollis L. Caswell and Arthur W. Foshay, <u>Education in the Elementary</u> <u>School</u> (New York: American Book Company, 1957), p. 137.

get along with peers and find friendship makes classroom assignments just another burden to pupils who have inadequate social relations. 1

The environmental experiences of a child before he enters school affects his maintenance of satisfactory relationships with other boys and girls in the classroom. From infancy, an individual acquires his needs for social interaction by having his basic physiological needs satisfied while in the presence of other people. Acquisition of specific types of social interaction must accompany the increasing maturity and experience of the young child. These are learned as the child finds that many individuals can satisfy his needs. Of course, some persons develop stronger needs than others for particular kinds of social relationships, since these needs are acquired through conditioning and other learning processes. The average classroom of pupils will range from those who are self-sufficient enough to require minimal needs for any type of social interaction to those pupils with intense social needs which cause them to appear apprehensive and unhappy whenever circumstances prevent them from interacting with others. The majority of pupils, however, need the company of others part of the time, and autonomous and independent activities the other part of the time. Thus, the growing child <u>learns</u> to display certain behaviors and to get the social attention he needs.2

Because children differ greatly in their abilities to learn and to transfer what they have learned to ever changing social situations, it is necessary for classroom teachers to provide experiences which give meaning to learning. In order to set off thinking, understanding and language

¹Gardner and Thompson, loc. cit.

²Ibid., pp. 1-2.

development, direct and concrete experiences become the social context in which children find meanings. Actual involvement in peer social interaction is the spur to communication, visual and auditory discrimination and motor skills. Independence, autonomy and self-direction are the results of purposeful effort. Life experiences and personal observations form the bases for assumed roles in social situations and project themselves into other forms of expression such as interaction and communication. By doing, by attempting to do what is challenging, and by interacting with others, a child learns to be flexible, adaptive and developmental. 1

The classroom teacher, then, needs objective and reliable information about the social relations of her pupils just as she needs diagnostic information in achievement areas of the curriculum. She needs such information for guidance and counseling purposes as well as for identifying the more severe cases of social maladjustment for referral to specially trained personnel. ²

Often, after reading generalizations such as the above and consulting textbooks which advocate group activities, the elementary teacher is still confronted with the problem of selecting an activity which will provide experiences in group understandings and language development. Are there specific speech activities which will enable her pupils to develop toward specific goals of group work? Greene and Petty state that "group discussion is the most frequently used classroom means for carrying on learning

¹Laura Zirbes, "What Should We Know About Learning?" Childhood Education, XXXVI (December, 1959), p. 154.

²Gardner and Thompson, <u>loc. cit</u>.

in any area." Since group discussion and group dynamics are a part of the art or theory of communication, according to Auer, 2 the classroom teacher can best, and on more occasions, study the social and human relations skills of her students through class discussion involving the entire group. It is also here that she can most adequately provide for opportunities for these skills to be developed.

Discussion is defined as "the cooperative deliberation of problems by persons thinking and conversing together in face-to-face or co-acting groups under the directions of a leader." Analyzing this definition further, cooperative deliberation means reflective thinking, rather than intentional reasoning or critical analysis, which evolves into total group thought which is the effort of all concerned. Since face-to-face situations where everyone can see everyone present and can be seen by them is more typical of small groups, a co-acting situation is often devised to take care of large groups where all the members of the group respond to some single, central source of information. Because of the size of a typical classroom, either type can be used under different circumstances. Leader direction may either be pre-conceived or emergent, as in small face-to-face groups; in each case, it is indispensable. Again, either type of leadership may exist in classroom discussions. Discussion as a technique for learning is best adapted to classes or other relatively small gatherings.

Harry A. Greene and Walter T. Petty, <u>Developing Language Skills in</u> the Elementary School (Boston: Allyn and Bacon, Inc., 1959), p. 86.

²Auer, op. cit., p. 2.

³James H. McBurney and Kenneth G. Hance, <u>The Principles and Methods of Discussion</u> (New York: Harper and Brothers, Publishers, 1939), p. 10.

⁴<u>Ibid.</u>, pp. 10-15.

⁵Ibid., p. 38.

There is value to the young student in understanding the discussion process. Discussion and group decisions are prevalent in present American society. Corporations, governmental bodies and administrative groups very seldom rely upon the decisions of a single, powerful figure. Everywhere, from school and social groups to community, state and even nations, the complexities of modern life require widespread reliance upon co-operation and group agreement. For these reasons, group discussion, whether it be a formal, structured situation or regular teacher-pupil classroom interaction, is an integral part of every elementary classroom.

A recognition of these needs for group discussion may lead the classroom teacher to raise questions such as the following:

- 1. Is there a type or pattern of group discussion stimulus better than other types for helping children learn to listen, to abide by group decisions, to express ideas, etc.?
- 2. Does research substantiate certain commonly accepted theories such as an open, free classroom discussion stimulating the best involvement and participation on the part of pupils, and working in small groups affording the best practice in planning?
- 3. Is it possible to teach the goals of group discussion indirectly since "the best way to motivate children to master language skills is not to drill on these skills, but to emphasize communication"?²

All of these questions have yet to be answered experimentally. Most of the research studies in group discussion in an educational environment

Donald C. Bryant and Karl R. Wallace, <u>Fundamentals of Public Speaking</u> (New York: Appleton-Century-Crofts, Inc., 1953), p. 386.

²Mildred A. Dawson and Marian Zollinger, <u>Guiding Language Learning</u> (Yonkers-on-Hudson, New York: World Book Company, 1957), p. 12.

have been concerned with its superiority as a motivational technique. Group discussion generally has been compared with other classroom procedures, such as the lecture method or the laboratory method. However, the important question for research in group discussion at the present time is to see if certain kinds of group discussion stimuli can be more effective in attaining specific objectives, not whether discussion in general is more advantageous than other methods of teaching. Many of the questions within the area of group discussion itself need to be answered. This is the point of focus for this study.

Purpose of the Study

This study evolves from the premise, firmly established in current textbooks for elementary teachers, that group discussion in some form is a vital part of elementary classroom procedures and of the development of the social relations of pupils; as such, they should be subjected to experimental research. The purpose of this study is to experimentally test the use of class discussion in the development of social relations skills of fifth-grade pupils. The specific purposes are:

- l. To compare selected patterns of class discussion stimuli as to their effectiveness in helping elementary school children improve their social relations skills
- 2. To relate the implications of the findings of the study for the classroom teacher as a partial criterion for the selection of classroom discussion procedures

¹G. Max Wingo, "Methods of Teaching," <u>Encyclopedia of Educational</u>
<u>Research</u>, ed. Chester W. Harris, III (The Macmillan Company, 1960), p. 853.

The Problem

The central problem to be analyzed statistically and reported descriptively is to determine if there are any significant differences in the group outcomes of children's behavior at a single grade level after they have participated in one of the three commonly used class discussion stimuli over a sustained period of time. A consideration of the problem raised the following questions:

- 1. What are the group gains made in the achievement of specific social relations skills in each experimental group as measured by the Russell Sage Social Relations Test?
- 2. What are the group gains found in the achievement of specific social relations skills when comparing classes which had the same back-ground stimuli for discussion and which engaged in the same pattern of class discussion as measured by the <u>Russell Sage Social Relations Test?</u>
- 3. What are the group gains found in the achievement of specific social relations skills when comparing classes which had the same back-ground stimuli for discussion but which engaged in different patterns of class discussion as measured by the Russell Sage Social Relations Test?

Definition of Terms

<u>Social Relations</u> -- the language and behavior skills needed for effective group participation.

 $\underline{\text{Class Discussion--used synonomously with group discussion, accepting}} \\ \text{McBurney and Hance's definition.}^1$

Group--a designated class of fifth-grade pupils who had been

¹McBurney and Hance, <u>loc. cit</u>.

assigned to work with one particular teacher and who had been grouped by a method other than homogeneous or ability grouping procedures.

Elementary School--generally, a school enrolling pupils in grades one through six. In this particular study, a school enrolling pupils in grades four, five and six. It is a separate school from both the junior high school and the senior high school, having its own building, administration and purposes.

<u>Teacher</u>--the regularly assigned person responsible for a class while the pupils are in attendance at school.

Fifth-Grade Pupil--a child assigned to do the work required of the fifth year of school, excluding kindergarten, and who had satisfactorily completed four years of prior school achievement or its equivalent in academic training.

<u>Examiner</u>--the writer of this study who conducted the research, administered all tests, with the exception of the I.Q. test, all questionnaires, and who acted <u>in loco magistri</u> during the class discussion periods.

Observer -- a graduate student majoring in speech at the University of Oklahoma who had the responsibility of rating the groups as they participated in the Russell Sage Social Relations Test.

Types of Class Discussion--patterns of discussion stimuli which are distinguished from each other by the designation of Tiegs and Adams as being among the most commonly employed class discussion procedures in the elementary school. 1

1. <u>Teacher-to-Pupil-to-Teacher Discussion--a</u> teacher controlled form of communication in which the examiner directed pre-

¹Ernest W. Tiegs and Fay Adams, <u>Teaching the Social Studies</u> (New York: Ginn and Company, 1959), p. 119.

- planned questions to specific pupils by calling them by name to answer specific questions. Efforts on the part of the pupils to digress from the particular question of the moment were controlled by the examiner.
- 2. Pupil-to-Pupil Discussion—a situation in which one pupil opened with a remark, followed by other pupils who called upon each other and reacted to each other's ideas purely on a voluntary basis. The pupils did not raise their hands when they wanted to talk, and were encouraged to look at each other and talk only with classmates, not to the examiner. There was no particular structure to the discussion and the only control was that they stick to the subject. The examiner stood to one side of the room during the discussion and commented only when it was necessary to keep the discussion moving.
- 3. Small Groups Discussion—a situation in which the entire class was divided into five small groups. Each small group, consisting of five to seven pupils, was handed a sheet of typed questions prepared in advance by the examiner to be discussed among the members of their group. Each group was responsible for a different set of questions. After approximately ten minutes, each group moved their chairs back into the regular places in the classroom, and one child from each group reported the thinking of that group's questions. The class was then allowed to make relevant comments if they so desired by

first raising their hand and then being recognized by the child reporting. The groups were formed according to the convenience of their regular position in the classroom, thus controlling the selection of friends with which to work. Each group was told that they could elect a leader if they desired, and that they could let a different child do the reporting each day if they wanted to. Neither was compulsory; it was left entirely up to the group. The membership of the groups stayed the same throughout the experiment. The groups were relatively unstructured except for a preplanned agenda.

<u>Background Stimuli</u>--the subject matter material or information presented prior to a discussion period.

<u>Discussion Stimuli</u>--the patterns of class discussion employed, each serving as a "stimulator of group interest and understanding."

Procedure for the Study

In order to study the effects of different patterns of class discussion stimuli upon the group achievement of elementary school children in social relations, the following procedure was observed:

- 1. A review of current textbooks for elementary school teachers was made to determine the most commonly used patterns of class discussion.
- 2. Three patterns of classroom discussion stimuli were selected which would require no outside or individual preliminary preparation.

¹John Keltner and Franklyn Haiman, "Discussion as a Tool in Acquiring and Using Knowledge," <u>The Bulletin of the National Association of Secondary School Principals</u>, XXXVIII (January, 1954), p. 111.

- 3. A survey of the current textbooks in the field of elementary education was made to obtain a list of the most frequently mentioned goals of group discussion in the elementary school.
- 4. The Russell Sage Social Relations Test was selected because it measures most of the social relations skills accepted as goals of group discussion, and because it is a test of group, rather than individual, performance.
- 5. The training of observers to do the ratings on the <u>Russell Sage</u>

 <u>Social Relations Test</u> constituted the next step in the study. The training included four discussion periods with the examiner, in which meanings of various categories or variables were analyzed, and a trial session.
- 6. In order to establish the inter- and the intra-reliability of the ratings of the two observers, they were required to test and re-test groups of elementary school pupils who met the same criteria as those pupils who were to participate in the experimental study.
- 7. The common background stimuli for all groups or classes in the experimental study were devised. These stimuli were composed of various books which were illustrative of different types of literature and which contained situations which would evoke discussion. A list of apropos questions for each book was then compiled by the examiner.
- 8. The Lorge-Thorndike Intelligence Test and the California Test
 of Personality were selected to help establish that all of the participants in the experimental study came from the same population. In
 selecting these instruments the criteria used were (1) the appropriateness of adequate norms, reliability and validity and (2) the practicality
 of the tests with reference to the time required, the singly derived scores

and the ease of administration. In addition to the above criteria for both instruments the <u>Lorge-Thorndike Intelligence Test</u> was used because the results of it were made available to the writer through the school system involved.

The <u>Lorge-Thorndike Intelligence Test</u> yields a verbal I.Q. score designed to measure vocabulary, verbal classification, sentence completion, arithmetic reasoning and verbal analogy. 1

The <u>California Test of Personality</u> yields a social adjustment score derived from a measure of the pupil's social standards, social skills, anti-social tendencies, family relations and community relations.²

- 9. The participants in the experimental study were selected and the six class groups were randomly assigned.
- 10. The characteristics of the participants at the beginning of the experimental study were determined by giving the <u>Russell Sage Social</u>

 <u>Relations Test</u> and the <u>California Test of Personality</u> and by securing the scores on the <u>Lorge-Thorndike Intelligence Test</u>.
- 11. The background stimulus was presented to each of the individual classes on ten consecutive school days. Each background stimulus was followed immediately by a class discussion involving the particular discussion stimulus assigned to each class.
- 12. After the completion of all discussion sessions, each participant filled out a questionnaire to determine the pupil's interest in the

lrving Lorge and Robert L. Thorndike, <u>Lorge-Thorndike Intelligence</u>
<u>Tests</u>. (New York: Houghton Mifflin Company, 1954), p. 1.

²Louis P. Thorpe, Willis W. Clark and Ernest W. Tiegs, <u>Manual:</u>
<u>California Test of Personality</u> (Los Angeles: California Test Bureau, 1953),
pp. 3-4.

particular type of class discussion which was used in his classroom and to determine his preferences for the various types of literature presented. Leach pupil was asked to make his evaluation in terms of his acceptance or rejection of specific patterns of class discussion and preferences for types of literature in all situations in which he encountered the patterns and types, not merely on the basis of the time the examiner had been in the classroom.

13. The <u>Russell Sage Social Relations Test</u> was administered as a post-test to all classes.

Description of the Sample and Classroom Procedures

The sample for this experimental study was limited to all of the fifth-grade pupils regularly enrolled in the Moore Elementary School, Moore, Oklahoma, with the exception of those fifth-grade pupils who attended special education classes rather than the regular fifth-grade classes. The elementary school was chosen because children of a normal age for this type of school were, for the first time outside their immediate home environment and relationships, actively engaged in extending their social contacts and broadening their human relationships in discussion situations.

During the school year of 1961-62, Moore Elementary School, Moore, Oklahoma, employed a self-contained classroom pattern of instruction in the upper grades. The fourth, fifth and sixth grades were housed in a building separate from the primary grades. This building had its own principal and there were six fifth-grade classrooms. The typical

Because the pupil's ratings of types of literature is not directly related to the purposes of this study but might be of interest to the reader, the results of this portion of the questionnaire are included only in the appendices.

elementary school offerings of language arts, social studies, arithmetic and science were given to groups of pupils who had been assigned to their classrooms according to procedures other than homogeneous or ability grouping. Counting only those pupils who were present for the pre- and post-tests, there was a total N of 158 fifth-grade pupils participating in this study. All of the pupils regularly enrolled, however, were allowed to take part in the discussion sessions between the pre- and the post-tests. Only those pupils who were present for the pre-test took part in the post-test; those pupils who were not present for the pre-test were assigned to another room in the building during the post-test.

Because of the grouping procedures and the fact that all instruction for every group was based upon the same curriculum, it was assumed that each group, considered as a whole, was similar in its relation to the others and its opportunities to have engaged in classroom discussion. Since none of the pupils knew the purpose of this study, it was further assumed that the pupils in each class were randomly representative of the population.

The fifth grade was selected because pupils at this level are typically mature enough in their social development to be able to communicate ideas, feelings and impressions in some sort of organized way, often show the ability to think through an idea or topic beyond the mere first reaction stage, still retain somewhat the uninhibited qualities of earlier childhood, and generally have not faced the frustrations associated with puberty which often cause temporary withdrawal from social interaction. No attempt was made in this study to distinguish between the group discussion behavior of boys and girls because it is very often found that,

at this age level, many of their activities have not yet been segregated according to sex roles.

The regular classroom situation was chosen as the site for the study because it is here that discussion, devoid of peer selected associates, is most likely to occur. No attempt was ever made during the experimental period to rearrange the pupils according to interests in working with certain other individuals, or even by topic interests. The regular classroom arrangement was used in each case, with the exception of the small groups discussion classes who, of necessity, had to turn their desks to face the other five to six members.

Books alone were used for background stimuli for the discussion periods. Most of the books selected were slightly above the recommended reading level of fifth-grade pupils since they were being presented orally by the examiner. However, each book was carefully selected in content to appeal to this grade level child. The books selected were recommended in the Childrens' Catalogue, and were chosen with appeal for both boys and girls.

No grades or tests were given over the material contained in the background stimuli or over the discussion periods. Artificial means of motivation were omitted in order to get a true picture of how children developed in communication and social skills when no direct pressure was put upon them.

The effects of typical patterns of class discussion stimuli upon the group achievement of fifth-grade pupils in social relations was limited to only three of the many variations of class discussion which are possible to have in an elementary classroom. The three patterns studied were (1) an informal, open type of discussion, (2) a teacherpupil-teacher form of communication, and (3) a small group reporting situation.

Organization of the Report of the Study

This study is divided into five parts:

Chapter I presents an over-view of the problem and a description of the study.

Chapter II reviews the related literature.

Chapter III analyzes the <u>Russell Sage Social Relations Test</u> as it was used and interpreted in this study, and describes the procedure in establishing observer reliability.

Chapter IV presents the collection and treatment of data.

Chapter V contains a summary of the findings and conclusions drawn and recommendations resulting from the study.

CHAPTER II

REVIEW OF THE RELATED LITERATURE

Measurement of Speech Behavior

The fact that research in the teaching of speech on the elementary school level is a relatively unexplored area at the present time is reflected in publications such as the Review of Educational Research. Dividing speech research and its related literature into four main areas, Auer and Smith give little indication of any important studies concerned with elementary speech activities. One of the chief reasons for this is that objective measurement of actual speech situations is difficult on any level, and therefore much of the research is limited to historical studies or critical and content analyses of existing materials, which obviously are not available at the elementary level. However, in the field of tests, measurements and research instruments, there have been a number of tests developed recently for general research in speech which can be used on the elementary level. Bales and Gerbrands have reported the use of an "interaction recorder" which has proved useful for keeping observations in their original temporal sequence. In order to measure individual differences

¹J. Jeffery Auer and Raymon G. Smith, "Speaking," <u>Review of Educational Research</u>, ed. David R. Krathwohl, XXXI (April, 1961), pp. 152-160.

²Robert F. Bales and Henry Gerbrands, "The 'Interaction Recorder:' An Apparatus and Check List for Sequential Content Analysis of Social Interaction," <u>Human Relations</u>, I, No. 4 (n.d., 1948), pp. 456-463.

in conformity to group judgment, Crutchfield has devised a "quasi groupinteraction method" by which the experimenter wholly controls and manipulates the conditions of group interaction by operating an electrical
switchboard. Both of these instruments are steps forward in objectively
identifying factors in speech situations, but speech, being of an oral
nature, must be evaluated most often by human observation.

Douglas, in a much-needed article, explains the meaning of speech measurement to the classroom teacher and his points are certainly apropos for the elementary teacher. He states that speech testing problems are not insurmountable when the teacher has a theoretical background in the nature of measurement, the objectives of measurement and the factors affecting measurement. All measurement, according to Douglas, is observation and all testers, whether classroom teachers or researchers, must discipline themselves to perceive and comprehend reality. ²

One of the most frequently used instruments for recording observations, and the type used in this study, is the rating scale. Rating scale procedures are used more frequently than all other psychological measurement methods that depend upon human judgment. They are often used in studies of individual reactions, in evaluations of products and in psychological evaluation of stimuli. Although rating scales are condemned frequently because of the many sources of bias and error to which they are vulnerable, it can now be stated that in most studies these are controllable to some degree and that once the facts become known there

¹Richard S. Crutchfield, "A New Technique for Measuring Individual Differences in Conformity to Group Judgment," <u>Proceedings 1954 Invitational Conference on Testing Problems</u> (Princeton, New Jersey: Educational Testing Service, October, 1954), pp. 69-73.

²Jack Douglas, "The Measurement of Speech in the Classroom," <u>The</u> Speech <u>Teacher</u>, VII (November, 1958), pp. 309-319.

are corrections and scaling procedures which can be applied. In view of the demands to evaluate human beings in all sorts of variables and because no known better procedures are in existence, the rating method promises to be welcomed by many researchers for many years to come. 1

Since a rating scale is used in this study, and thus requires observers of the group discussion in the pre- and post-testing situations, a review of the literature concerning observer reliability is included in this chapter. Most books dealing with the evaluation of research tools which attempt to observe and record human behavior have an encouraging, if somewhat skeptical, tone to them. In the words of John Withall, "It appears that, at long last, researchers have taken to heart the dictum credited to Kurt Lewin that there is nothing so practical as a good theory."2 The multiple-criterion approach, so evident in observing human behavior, seems to be implicit in some of these theories and is necessary to better understand, control and predict variables in the global phenomena areas of education, mental health, psychology, and the like. However, the current thinking seems to be that broad areas need to be broken down into manageable, discrete, describable operations of behavior with defined conditions specifying, describing and quantifying the behavior of the learners and other participants in the evaluation environment.³

There are, then, two major trends which are currently influencing

¹J. P. Guilford, <u>Psychometric Methods</u> (New York: McGraw-Hill Book Company, Inc., 1954), pp. 278-280.

²John Withall, "Research Tools: Observing and Recording Behavior," Review of Educational Research, ed. David R. Krathwohl, XXX (December, 1960), p. 496.

³ Ibid.

researchers engaged in observation of classroom activities. One is reflected in the studies guided by the sociopsychological orientation, and the other is seen in the attempts to operationally define the specific behaviors in which teachers and learners relate significantly to group behaviors and individual learning. 1

Observers or recorders of group or individual behavior in testing situations must develop a stenographic type of skill in order to record observations, be trained specifically in understanding an often complex set of categories to be observed, and become analytic in "taking the role of the other" as a classification is made. These skills require long practice and frequent retraining in order to perform consistently. Then, at best, there will be a certain margin of error due to the well-known errors in ratings such as the error of leniency, the error of central tendency, and the halo effect. The most effective method for minimizing errors is to train raters carefully, not only in the handling of a specific instrument, but also in the counteracting of constant errors.

Training that includes practice and discussion periods seems to be the most effective. 3

Group Discussion

The ability of individuals to work in group situations has been increasingly recognized as an important aspect of human development in a

¹Ibid., p. 509.

²Robert F. Bales, <u>Interaction Process Analysis</u> (Cambridge, Massachusetts: Addison-Wesley Press, Inc., 1950), p. 85.

³Guilford, loc. cit.

democracy. Particularly since World War II, serious studies of group dynamics and the interaction process involved in group discussions have advanced our knowledge of social development. However, experimental work in group discussion is a relatively newcomer as far as the scientific method is concerned. In 1949, Dickens and Hefferman made a survey of experimental research in group discussion, claiming to be only the fourth of such attempts in the history of the area. In this survey, psychologists were criticized as having too frequently been involved in experimentations without practical experience in discussion themselves; consequently, they set up discussion situations for experimentation which were artificial and unlifelike. The authors of this article did indicate the trend of expanding topics used in discussion research from mere questions of fact to questions of opinion in which emotion and irrationality play a part. Another encouraging fact in the same review was that the types of discussion experimentally studied were digressing from the usual learning or problem-solving type to include unspecified leaders, open forums and joint-action groups. Individual thinking compared with group thinking, the lecture method of teaching versus the discussion technique in classrooms, measurements of attitude changes in group discussion, analyses of the discussion process per se, and techniques for comparing the degrees of effectiveness on questions of opinions were characteristic of the realm of group discussion research. The use of standardized tests, inventories, attitude scales and similar devices were questioned, and the development and validation of new experimental techniques and procedures designed purposefully for group discussion

¹Milton Dickens and Marguerite Hefferman, "Experimental Research in Group Discussion," <u>The Quarterly Journal of Speech</u>, XXXV (February, 1949), p. 23.

situations were encouraged. 1

Since 1949, there have been many attempts to put evaluation of group discussion on a more scientific basis. Many studies have been done on group discussion as a classroom methodology, while group discussion as a technique for solving problems has increasingly been utilized in industry, business, and the professions. A great many research studies have dealt with the formation of groups and the bearing interaction of members of a group has on social development. Two of the important outcomes of participation in peer groups and classroom groups which have a definite relation to social development are (1) the sphere of social sensitivity is broadened to include persons outside family memberships and (2) the learning of social attitudes and habits which characterize the group is increased as a result of group participation. Children practice the kinds of attitudes shown them by their leader or teacher, and the nature of these attitudes is related to the kind of atmosphere--democratic, authoritarian or laissezfaire--which is maintained by the leader of the group. There is also a relation between the quality of childrens' learning and the nature of the group situation; children generally will work harder in a group than they will alone, mainly because of competition. Children also will work more efficiently when the results of the work are made known to the group than when they are known only by the individual. The atmosphere of the group, or the social climate, influences the efficiency of learning of a lesson and also the learning of social habits. 2

¹Ibid., pp. 23-29.

²Robert J. Havighurst, "Social Development," <u>Encyclopedia of Educational Research</u>, ed. Chester W. Harris, III (The Macmillan Company, 1960), p. 1288.

Teacher-pupil planning, a form of group discussion, has been an avenue through which discussion effectiveness is receiving some evaluations in the elementary school. Petty reports that when children know what they are to do and how they are to do it as the result of teacher-pupil planning, they are more successful in group work and that teachers also welcome and appreciate the relationships which come about as a result of teacher-pupil planning. 1

Rehage found that in two matched groups of eighth grade social studies classes the group which participated in teacher-pupil planning activities had a much greater gain in knowledge than the group which had no opportunity to participate in the formulation of objectives and the means to attain them.² Ragan states that the basis for a democratic classroom should be a creative environment in which the teacher and the pupils have the freedom to experiment, to discover and to develop solutions to the real problems of living. Opportunities for this kind of intra-group communicative effort exist in many phases of elementary school work.³

Not only in teacher-pupil planning situations, but in all patterns of group discussion stimuli there must be this freedom to experiment, to discover and to develop solutions. Overemphasis on drill or too much compartmentalized learning reduces learning in actual life situations. The value of learning or of an experience is ultimately determined by the

¹Mary Clare Petty, <u>Intraclass Grouping in the Elementary School</u>, (Austin, Texas: Bureau of Laboratory Schools, The University of Texas, 1953), p. 130.

²Kenneth J. Rehage, "A Comparison of Pupil-Teacher Planning and Teacher-Directed Procedures in Eighth Grade Social Studies Classes," <u>Journal of Educational Research</u>, XLV (October, 1951), pp. 111-115.

³William B. Ragan, <u>Teaching America's Children</u> (New York: Holt, Rinehart and Winston, 1961), p. 258.

interactions which take place between an individual and his environment. Group approval and the learner's satisfaction of his own behavior and product are the two most influential rewards of the learning process. 1

One of the most important elements in the growth of a healthy personality, as far as interaction with others is concerned, is the fostering of what is important to one's self. Values do not come as gifts; each individual must obtain them for himself. They come through prizing, cherishing, discriminating in the face of choices, from reflection, from a chance to be expressed, and from support of others who share the same values. Yet values are constantly undergoing change as a result of shared living and thinking. 2 Unfortunately, the value systems of mankind have suffered at the cost of technilogical developments in recent years. The future of man, since he has made tremendous strides in controlling his physical environment, lies in what he does to himself. Whether he will develop to his potentiality or betray it depends upon how he handles his present uncertain conceptions of his own nature.3 Group discussion, then, provides an opportunity for social interaction in which attitudes and concepts of mankind in general and one's self in particular are developed.

Goals of Group Discussion in the Elementary School

In reviewing some of the current textbooks for elementary school teachers for recommendations of objectives of group discussion, the areas

¹Maycie K. Southall, "How do Children Learn?" <u>Childhood Education</u>, XXXVI (December, 1959), pp. 151-152.

²Louis E. Raths, "Values Are Fundamental," <u>Childhood Education</u>, XXXV (February, 1959), pp. 246-247.

³J. H. Rush, "The Next 10,000 Years," <u>The Saturday Review</u>, XLI (January 25, 1958), p. 36.

most frequently associated with group work or language development were analyzed. Language arts, social studies, and directed speech activities are the specific areas of the elementary school curriculum where group discussions, with language development and social skills as the most immediate goals, are most frequently found. A summary of the goals and objectives of group discussion as found in these textbooks follows.

The objectives of discussion in a language arts program are to afford practice in clarifying one's thinking, gaining new ideas, learning to think for oneself, and to form reasonable judgments. Standards to be stressed include sticking to the point at issue, making only those remarks which will help to carry the thinking forward toward a definite conclusion, expressing ideas in clear-cut sentences, speaking distinctly and enunciating clearly. 1

In discussion, children must have a clear recognition of the problem to the extent that they can make a contribution. Cooperation is an important outcome of discussion as well as leadership training. Discussion implies reaching a better understanding of a problem and coming to a common viewpoint. It also implies tolerance and good sportsmanship. Thus, in addition to communication skills to be mastered by pupils in group discussion situations in the language arts program, social behavior standards are also mentioned as objectives.

In the discussion program of social studies classes. Tiegs and

Adams list objectives both for the teacher and for the pupils. Desirable

¹Dawson and Zollinger, op. cit., p. 57.

²Greene and Petty, op. cit., p. 234.

skills which the teacher should strive for in her pupils are the ability to state problems clearly and concisely, recognize the need for supporting all statements made, and differentiate between fact and opinion. The ability to accept opposing viewpoints thoughtfully, intelligently and unemotionally, and the recognition of the value of unifying phrases such as, "as Mary said," or "to continue with," are goals of discussion situations which the teacher should strive for in working with pupils. 1 Selected from a list of twelve habits and abilities to be acquired by the pupils, the ability to be enthusiastic during conversation or discussion, the ability to be a good listener, the observance of common courtesies, and the skill of changing the topic tactfully summarize the viewpoint of Tiegs and Adams. 2 Some of the other skills, knowledges and attitudes to be developed by the pupils in social studies discussion sessions are knowing when and how to interrupt the person talking, disagreeing politely with another's statements, not monopolizing or whispering in the presence of others, knowing what to do if two pupils start to make a contribution at the same time, using moderation in expressing likes and dislikes, avoiding hurting the feelings of someone else or of being too personal, evading futile arguments, and finally, minimizing repetition.³

Although a special speech activities program is not usually a part of the curriculum in most elementary schools, several textbooks devoted entirely to elementary speech improvement are available as source material

¹Tiegs and Adams, op. cit., pp. 86-87.

²Ibid., p. 85.

³<u>Ibid.</u>, pp. 85-86.

for teachers. The goals of group discussion as stated in such textbooks also give insight into what is expected to be accomplished by elementary school children as they take part in oral communication efforts as a group.

The possibilities and values of group discussion, as listed by Rasmussen, include growth in general enlightenment, problem-solving, and social behavior. The ultimate test of the effectiveness of such discussions is how the pupils behave in future situations where discussion is not necessarily involved, such as manners in the hall or behavior on the playground. 1

The outstanding characteristics of a good discussion, according to Scott and Thompson, are maintaining good human relations in oral communication situations, active participation, critical thinking, a concern for and the understanding of the problems of others, and leadership. Learning greater self-control and the ability to pool ideas are also desirable outcomes of group discussion. Good speech manners and listening create an atmosphere for the development of appropriate skills which a child will need in order to participate effectively in an adult society; thus helping him to get a clear picture of the realities of the adult world and its expectancies and aiding him in accepting and assuming his adult role more easily. 2

As an illustrative lesson for upper grade children in problemsolving, Pronovost lists group discussion objectives evolving from a study of a typical unit on health and safety. The principal objectives are to

¹Carrie Rasmussen, <u>Speech Methods in the Elementary School</u> (New York: The Ronald Press Company, 1949), pp. 128-129.

²Louise Binder Scott and J. J. Thompson, <u>Speech Ways</u> (St. Louis: Webster Publishing Company, 1955), pp. 14-21.

develop the ability to use an organizational pattern of definition, analysis, exploration, evaluation and decision in this type of situation, as well as skills such as listening, sticking to the point and supporting opinions. 1

From this survey of recommendations for goals of group discussion from current textbooks for the elementary teacher, a conclusion can be reached that they all agree on the general realm of learning and social outcomes of a class activity involving discussion. These goals were the criteria upon which an instrument was selected for measuring group discussion behavior. In Chapter III, an analysis of the categories included in the <u>Russell Sage Social Relations Test</u> will be given as each category applies to the above mentioned goals of group discussion. This will be followed by an analysis of the Observer Reliability Study.

¹Wilbert Pronovost, <u>The Teaching of Speaking and Listening in the Elementary School</u> (New York: Longmans, Green and Co., 1959), p. 87.

CHAPTER III

THE RUSSELL SAGE SOCIAL RELATIONS TEST AND THE OBSERVER RELIABILITY STUDY

As stated in Chapter I, the purpose of this study was to see if there were any significant changes in the group achievement of fifthgrade pupils in social relations skills after a period of ten consecutive day-to-day discussion sessions. One of the first tasks was to find a test which would measure the group discussion goals which were found to be recommended in current textbooks for elementary teachers. The test which met this criterion best was the <u>Russell Sage Social Relations Test</u>. Because of the uniqueness of its structure and method of presentation and because of the manner in which the test was used in this study, a description of these two aspects is necessary in order to fully understand the outcomes of this study.

Structure and Administration of the Test

During the administration of the <u>Russell Sage Social Relations Test</u>, trained observers assess the amount of skill which a classroom group of children, working with blocks, possess as they devise a plan which is to govern their behavior in a defined problem situation, and as they carry out their plan and solve the problem. Each group has three possible problems which they can solve: building a house, a footbridge, and a

dog. Each problem consists of thirty-six plastic blocks. A model of the problem is shown to the group before they start discussing ways the class can get together and build their duplication of the model in the best and fastest way. The class establishes, through discussion with the examiner, what the model actually represents. Then, as the examiner is giving one or two blocks, depending upon the size of the group, to each child they are asked to begin studying the model and thinking of ways in which the class can get together to solve the problem. The blocks vary in color from red to white to blue. They come in two shapes, square and triangular. They fit together by slipping a notched side through an indented side of another. Each block has two notched and two indented sides. The group is told that their design must be exactly like the model as far as the way the blocks are arranged and facing. The group is also told that their score on the test will be a group score, rather than an individual score, and that it will be the time it takes to build their design plus the number of mistakes they make in building their design.

The children are told that the class may take as long as they like to plan how the class will assemble their design, but that once they begin to build the problem, a maximum of fifteen minutes will be allowed. As the pupils plan by offering ideas and suggestions, the examiner writes them on the blackboard. As little prodding or reminding as possible is done by the examiner during the Planning Stage, and the suggestions from the class are written in exactly the same words as those of the child offering them. Any questions directed to the examiner during this period are answered by saying that everything will be up to them as a group.

During the Operations Stage, which begins when the children have

indicated that they are ready to begin building their design, the examiner stands quietly to one side of the room. When the group has completed the building of their design, they are asked to take their seats. When they have quietened down, their time and the number of errors are written on the board. They are then ready to take the second problem, which is introduced without comments concerning the groups' work on the first problem and which follows the same procedure as the first problem. At the conclusion of the testing period, the examiner thanks the children for their cooperation. In the event that children want to know what the test is for, the examiner tells them that it is a test to see how well boys and girls can plan and work together. 1

Since the observers' presence in the room might cause speculation and uneasiness among the members of a group of children, the examiner in this study introduced them to the class, explaining that they simply wanted to observe during the period and that the children should not bother them with questions during the sessions.

Variables Rated on the Test

To make a comparison between the <u>Russell Sage Social Relations Test</u> and the most frequently appearing goals of group discussion, below have been listed the different variables included in the test and the corresponding previously mentioned goals which were applicable to the variable:

Part I of the Test: Planning Stage

1. Participation -- a variable with which the rater is concerned

Dora E. Damrin, Manual for the <u>Russell Sage Social Relations Test</u> (Princeton, New Jersey: Educational Testing Service, n.d.), pp. 5-11.

with the quality of participation as well as the quantity of participation. It is primarily based upon the number of children who participate, but the extent to which they carry on the discussion without the help of the examiner is also considered. I Goals of discussion which were reflected in this category were cooperation, enthusiasm for the project, active participation and sticking to the point.

- 2. Communication—a variable concerned with the quality of the children's ideas, as well as the manner in which their ideas are exchanged and evaluated. The goals of discussion which this variable included were making remarks to carry the thinking forward, speaking clearly and distinctly, expressing ideas in clear—cut sentences, listening, and learning to think for one's self.
- 3. Ideas--a variable concerned with the quality of the children's ideas and with the consistency of the discussion.³ Forming reasonable judgments, differentiating between fact and opinion, changing the topic tactfully, and critical and reflective thinking were involved in this category.
- 4. Plan--a variable in which the quality and the precision of the final plan of action that is devised by the group is considered. This category included accepting opposing viewpoints, coming to a common agreement, and the analysis, exploration, evaluation and decision necessary to devise a plan of action.

¹<u>Ibid</u>., p. 27.

²Ibid.

³<u>Ibid.</u>, p. 28.

⁴Ibid.

- 5. Involvement—a variable differing from the variable of participation in the respect that it is concerned with the interest pattern of the class, while participation is concerned more with the number of children who take part. Again, enthusiasm and sticking to the point were goals of group discussion to be taken into consideration here.
- 6. Autonomy--a variable concerned with the extent to which the children carry on their planning discussion by themselves and without the examiner having to interfere or prod.² The skills involved here were learning greater self-control and learning to function effectively in a group when a teacher or other adults were not aiding in decision making.

Part II of the Test: Operations Stage

- 1. Involvement—a variable concerning the extent to which the participants exhibit and maintain interest in the solving of the problem as they attempt to put their plans into operation. Cooperation, enthusiasm, and sticking to the project were again involved here.
- 2. Atmosphere--a variable concerned with the changes in the class-room climate as the pupils solve the problem.⁴ Goals of group discussion included tolerance, good sportsmanship, and understanding and helping each other.
- 3. Activity--a variable dealing with the behavior of the children who have withdrawn from the problem field. 5 Whispering, talking together,

¹<u>Ibid</u>., p. 30.

²Ibid.

³<u>Ibid</u>., p. 34.

⁴Ibid.

⁵<u>Ibid</u>., p. 35.

moving around the room unnecessarily, or any activity other than engaging in relevant behavior were factors in this classification.

4. Success--a variable concerning the excellence of the final product and the time it takes to complete the task. The goals of discussion employed here were the ability to use an organizational pattern of definition and to receive the satisfaction which comes from group thinking that has been successfully put into operation.

Training of Observers

The two observers used in this study were selected on the basis of their major areas of concentration in graduate speech work and their interest in group discussion. The following procedure was used for their orientation into the undertaking, based upon recommendations found in Damrin's article in the <u>Journal of Experimental Education</u>² and Bales' Interaction Process Analysis:³

- 1. Each observer was given a publisher's copy of the manual several days prior to the first meeting of the examiner and the observers in order to become familiar with the meanings of the categories included for rating in the test.
- 2. Four one-hour sessions were held in which the observers and the examiner discussed the meanings of the various categories and the purposes of the test. These first sessions were discussion situations;

llbid.

²Dora E. Damrin, "The Russell Sage Social Relations Test: A Technique for Measuring Group Problem Solving Skills in Elementary School Children," <u>Journal of Experimental Education</u>, XXVIII (September, 1959), p. 90.

³Bales, <u>op. cit.</u>, pp. 85-87.

each person was encouraged to ask questions, make comments, present ideas and critically evaluate the instrument. The meetings were informal so that interpretations and comments could enable all three participants to obtain a clear idea of the purpose and meanings of each category.

- 3. After the third discussion session, a trial period was arranged involving a class of thirty-five elementary education students at the University of Oklahoma. The purpose of this trial period was to give the observers an opportunity to see a group reacting to the test and to help visualize the test in operation. This procedure not only increased understandings of the instrument, but also increased the enthusiasm of the observers for working with the test. The trial period was handled exactly as if the test were being given to a group of elementary school children. All three problems were administered to this class.
- 4. The fourth discussion period was held immediately following the trial session in order that reactions and impressions could be evaluated and fitted into the final interpretations of the use of the instrument.

Observer Reliability

In Damrin's reports of reliability studies of observers, only one observer was used in each classroom. In this study, two observers simultaneously rated the same groups in each testing period involving the Russell Sage Social Relations Test in order to strengthen the accuracy of the scoring of the groups. Even though the two observer's ratings were to be pooled immediately following each pre- and post-test in the experimental study, a reliability check was made to determine the degree of

¹Damrin, op. cit.

agreement between the raters and the consistency with which each observer rated the same group.

The sample selected for the reliability study consisted of four fifth-grade classes of pupils regularly enrolled in the Jackson Elementary School and the Washington Elementary School, Norman, Oklahoma, during the school year of 1961-62. All of these groups met the same criteria set for the experimental study. With a total N of 132, each group was tested, and after an interval of not more than two days, was re-tested; thus making the eight trial periods recommended by Damrin for observers. In order to adequately test the intra-reliability of each observer, the two raters were not told in advance which group they were going to work with during the re-testing sessions.

Each of the classroom teachers was asked not to discuss the test with the children until after both tests had been given, and the examiner asked the children not to make inquiries from the teacher about it. The same procedure for testing to be used in the experimental study was adhered to in the reliability check. Only those pupils who took part in the first test were allowed to be members of the group in the re-testing session.

Since any one group was not to be compared with any other group and it was necessary for the two observers to gain experience in recording behavior centered around all three possible problems in the test, groups were randomly divided by lot to take either the footbridge and the dog problems or the footbridge and the house problems.

In order to test the degree of agreement between the observers and the degree of agreement of each observer's ratings in test and re-test

¹ Ibid.

situations of the same group, the following null hypotheses were formulated:

- 1. The ratings of Observer X and Observer Y are unrelated on the Planning Stage of the test and re-test for the same groups.
- 2. The ratings of Observer X and Observer Y are unrelated on the Operations Stage of the test and the re-test for the same groups.
- 3. The ratings of Observer X are unrelated on the Planning Stage of the test and the re-test for the same groups.
- 4. The ratings of Observer X are unrelated on the Operations Stage of the test and the re-test for the same groups.
- 5. The ratings of Observer Y are unrelated on the Planning Stage of the test and the re-test for the same groups.
- 6. The ratings of Observer Y are unrelated on the Operations Stage of the test and the re-test for the same groups.

The Kendall Coefficient of Concordance: W was selected to test the statistical significance of these agreements since Siegel states that this measure is "particularly useful in studies of interjudge and intertest reliability." In testing the significance of the observed W in the interreliability check, a \mathbf{x}^2 was employed since the N was larger than 7. The results of the inter-reliability check are shown in Table 1.

The first null hypothesis was rejected at the .10 level of significance, thus establishing that the two observers were in agreement on the Planning Stage of the test to the extent that only ten times out of a hundred trials could the agreement have been due to chance. In the same manner, the second null hypothesis was rejected at the .30 level of significance.

¹Sidney Siegel, <u>Nonparametric Statistics for the Behavioral Sciences</u> (New York: McGraw-Hill Book Company, Inc., 1956), p. 229.

TABLE 1

COMPARISONS OF THE TWO OBSERVERS' RATING OF SIX GROUPS
ON THE RUSSELL SAGE SOCIAL RELATIONS TEST

	N	W	x ²
Planning Stage	15	.80	22.40 *
Operations Stage	. 15	.60	16.80 **

^{*} Significant at the .10 level

** Significant at the .30 level

(df = 14)

Since the x² test of the significance of an observed W is used only when N is larger than 7, the intra-reliability check could not be submitted to this form of interpretation. According to Siegel, when N is 7 or less, the significance of any observed value of W is tested by determining the probability associated with the occurrence under a null hypothesis of a value as large as the s (sum of squares of the observed deviations from the mean of the sum of the ranks) with which it is associated. By extrapolation, null hypotheses 3, 4 and 5 were rejected at the .05 level of significance, thus assuring the intra-reliability of Observer X in the Planning and Operations Stages and Observer Y in the Planning Stage, since the observed s in each case was equal to or greater than that shown in Table R of Siegel for the .05 level of significance. Null hypothesis 6 could not be rejected at the .05 level of significance,

¹Ibid., p. 235.

²<u>Ibid.</u>, p. 286.

indicating that there was less agreement in Observer Y's ratings on the Operations Stage than on any of the others. However, since there is no relevant external criterion for either observers' reliability or for the ratings of fifth-grade pupils in social relations, the pooled ratings of these two observers served as the "standard" in the experimental study. Table 2 summarizes the results of the intra-reliability check.

Since there was a statistically significant higher agreement within the observer's ratings than between them and the fact that the observers ratings were to be pooled in the experimental study, it was assumed that the intra-reliability would be the more important factor in determining the acceptance of these two observers for this study. Although Observer Y's ratings of the Operations Stage, were not highly consistent, it was assumed on the basis of the other ratings, that the two observers were reliable.

TABLE 2

COMPARISONS OF EACH OBSERVER'S RATINGS OF THE SAME SIX GROUPS
IN TESTS AND RE-TESTS OF THE RUSSELL SAGE SOCIAL
RELATIONS TEST

	O	Observer X		Observer Y		er Y
	N	W	s	N	W	s
Planning Stage	7	.79*	80	7	.81*	87.50
Operations Stage	7	.72*	75.50	7	.30	33

^{*} Significant at the .05 level

Summarizing this chapter, it was shown how the <u>Russell Sage Social</u>

<u>Relations Test</u> was interpreted in its various categories as a useful instrument for measuring the recommended goals of group discussion as they reflect the achievement of fifth-grade pupils in social relations. A report of the results of the observer reliability check was also presented.

In Chapter IV the results of the findings in the experimental study will be reported as comparisons are made in the achievements of six groups of fifth grade pupils in social relations skills after participating in a single pattern of class discussion stimuli over a sustained period of time.

CHAPTER IV

COLLECTION AND TREATMENT OF DATA

The problem in this study was to compare the effectiveness of three commonly used classroom discussion procedures in terms of the group achievement in social relations skills of fifth-grade pupils from pre-test to post-test.

Statistical Analysis of the Sample

To test the validity of the assumption that all groups taking part in the study came from the same population as far as verbal ability and social adjustment were concerned, the <u>Lorge-Thorndike Verbal I.Q. Test</u> and the social adjustment part of the <u>California Test of Personality</u> were given to each pupil as an index of their relationship to each other in these areas.

The mean I.Q. was used as an index of the over-all verbal ability of each group. The technique for determining the difference between the means of two different groups of unequal size was taken from Wert, Neidt, and Ahmann. A t-test was run to determine the significance of the differences among the fifteen possible relationships. Table 3 presents the

¹James E. Wert, Charles O. Neidt, and J. Stanley Ahmann, <u>Statistical</u> <u>Procedures in Educational and Psychological Research</u> (New York: Appleton-Century-Crofts, Inc., 1954), pp. 128-133.

results of the t-test.

The null hypothesis was formulated that there is no statistically significant difference between the mean scores on verbal ability of the six groups. The null hypothesis was accepted (P < .01), in all cases except one. Using a table which Wilkinson presents that furnishes the probability of obtaining a certain number or more significant statistics in a set of N on the basis of chance alone, it was found that this one group comparison of t-scores out of the fifteen which could be rejected at the designated level, could happen by chance fifty three times out of a hundred trials. Thus, it was assumed that all six groups did come from the same population as far as verbal I.Q. is concerned.

The same procedure was used for testing the significance of differences between groups in over-all social adjustment. Again, the mean of each group was used as an index of the social adjustment of each group.

Table 4 shows the results of the t-test of the significance of differences between the mean scores as it was applied to the various combinations of groups on the California Test of Personality. The null hypothesis that there is no statistically significant relationship in the social adjustment of the six groups war rejected at the .01 level. Thus, it was assumed that all groups came from the same population as far as social adjustment is concerned.

Statistical Analysis of the Outcomes of Three Patterns of Class Discussion Stimuli

In order to answer the questions posed and test the hypotheses

Bryan Wilkinson, "A Statistical Consideration in Psychological Research," Psychological Bulletin, XLVIII (March, 1951), p. 158.

TABLE 3

COMPARISONS OF THE SIX GROUPS ON THE MEAN VERBAL I.Q. OF THE LORGE-THORNDIKE I.Q. TESTS

 	······································		
Groups	Mean Diff.	S. E. Diff.	t
AB	1.97	3.66	.538
AC	8.31	3.45	2.408
AD	7.93	3.86	2.054
AE	.31	3.41	.091
AF	6.52	3.95	1.651
BC	6.34	3.19	1.983
BD	5.96	3.65	1.633
BE	1.66	3.15	.527
BF	4.55	3.73	1.220
CD	.38	3.43	.110
CE	8.00	2.90	2.749*
CF	1.79	3.52	.508
DE	7.62	3.39	2.248
DF	1.41	3.93	.359
EF	6.21	3.48	1.784

^{*} Significant at the .05 Level of Confidence

TABLE 4

COMPARISONS OF THE SIX GROUPS ON THE MEAN SOCIAL ADJUSTMENT SCORE ON THE CALIFORNIA

TEST OF PERSONALITY

Groups	Mean Diff.	S. E. Diff.	t
AB	.45	2.87	.156
AC	3.54	3.07	1.153
A D	6.87	3.30	2.081
AE	. 20	3.08	.064
AF	.93	2.83	.329
BC	2.09	3.04	.688
BD	6.42	3.27	1.963
BE	. 20	3.05	.066
BF	.48	2.80	.171
CD	4.33	3.45	1.260
CE	2.84	3.18	.893
CF	1.61	2.83	.569
DE	7.17	3.46	2.072
DF	5.94	3.23	1.839
EF	2.23	3.01	.741

presented in the "Statement of the Problem" in Chapter I, it was first necessary to randomly assign one particular type of class discussion stimuli to each of the six fifth-grade classes participating in order to avoid bias. This was done in the following manner:

- 1. All classes were assigned a class meeting time by the examiner. Since none of the teachers had indicated in a preliminary meeting that there would be possibilities of conflicts in schedule, and since the examiner had never met any of the teachers prior to the study, this was done by lot, designating a thirty minute period for class discussion to each class. Beginning at nine thirty a. m., discussion sessions extended until two p. m. Each class met at the same time for one week. The second week, the schedule was reversed so that those classes which had been meeting in the afternoons would have an equal opportunity to take part in class discussion in the mornings. The times of the early and late morning classes were also changed for the second week of discussion.
- 2. The assignment of one class to one pattern of class discussion stimuli was also done by lot in the presence of another individual not connected with the study. Groups A, B, C, D, E and F were designated to take the place of the teacher's name. In this report, the groups involved are referred to by their letter names. Table 5 shows the particular pattern of class discussion assigned randomly to each group.

At the first meeting with each group the <u>Russell Sage Social Relations Test</u> was administered. This was done with all classes as closely together as the school schedule would permit and resulted in all classes having been tested within a one-week period. The results of this pretest for each group appear in Tables 6 and 7 which show the ranks of each

TABLE 5

CLASS DISCUSSION STIMULI ASSIGNED TO THE SIX GROUPS
PARTICIPATING IN THE STUDY

Group	N	Class Discussion Stimuli
A	29	Pupil-to-Pupil
В	29	Small Groups Reporting
С	24	Teacher-to-Pupil-to-Teacher
D	24	Small Groups Reporting
E	32	Teacher-to-Pupil-to-Teacher
F	20	Pupil-to-Pupil

Total N = 158

group's pooled ratings in each of the variables in the test other than the two descriptively rated categories. It will be recalled that two separate problems constituted the pre-test. On each of these problems, each variable was rated by the two observers on a five point scale, a rating of 1 being the lowest score and a rating of 5 being the highest score. The ratings on both problems on each variable were first averaged so that the group's performance on the entire test could be determined. This final rating on each variable was then statistically treated by employing the Kendall Coefficient of Concordance: W in order to determine the relationships in behavior between the groups. The null hypothesis that the six groups are statistically unrelated in the ratings received on the Planning Stage and

¹Siegel, <u>op. cit.</u>, pp. 230-238.

TABLE 6 COMPARISONS OF THE SIX GROUPS IN PRE-TEST BEHAVIOR ON THE RUSSELL SAGE SOCIAL RELATIONS TEST: PLANNING STAGE

Group	Variable	Participation	Communication	Ideas	Plan	Involvement
A		1.5	3	4	1.5	5
В		3.5	3.5	2	1	5
С		2	1	3.5	3.5	5
D		4	1.5	3	1.5	5
E		4	1	3	2	5
F		3.5	1	3.5	2	5
						

s = 221.31 W = .628

TABLE 7 COMPARISONS OF THE SIX GROUPS IN PRE-TEST BEHAVIOR ON THE RUSSELL SAGE SOCIAL RELATIONS TEST: OPERATIONS STAGE

Cmaum	Variable	Tuvalromanė	A = # da. d #	C	Common Classification
Group	****	Involvement	ACLIVITY	Success	Group Classification
A		4	1	3	2
В		4	1	3	2
C	•	3	1.5	4	1.5
D		3.5	3.5	1	2
E		3	1	4	2
F	•	4	3	1.5	1.5

s = 76.50 W = .215

the Operations Stage of the pre-test was rejected at the .05 level of significance, thus assuring the fact that all participants in the study were similar in their social relations behavior at the beginning of the study, as measured by the <u>Russell Sage Social Relations Test</u>. Since the groups were not different, no further analysis of the individual groups was necessary.

Two of the variables in the Planning Stage of the test were rated descriptively by the observers. An analysis of the ratings of the autonomy variable revealed that five of the groups entered into a brief discussion involving from four to seven children with an occasional prod or remind from the examiner. Group B had a more lengthy discussion, but was still assisted or reminded near the end of the discussion. The other descriptive variable was an over-all classification of each group, derived from a majority of ratings received on all the other variables. Five groups received a classification of immaturity in the Planning Stage, while Group E received a classification of semi-controlled.

In the Operations Stage, the descriptively rated variable was the atmosphere of the group. An analysis of the ratings on this variable indicated that Groups A and F were checked as bickering throughout the period, Groups B and E were checked as bickering in the initial period but becoming quarrelsome for the remainder of the time, and Groups C and D were checked as being friendly yet becoming noisy and excited as they put their plan into operation and solved their problem. The variations in the group atmospheres were not sufficiently different to justify concluding that the groups came from different populations as far as this single variable was concerned. The ratings of the atmosphere of the different

groups during the Operations Stage does indicate that all groups did become excited about the project and revealed their excitement in varying degrees of behavior.

At the first meeting with each group, which was for the purpose of having the pupils enter into a single pattern of class discussion, the examiner explained to the pupils that he was interested in sharing some different types of literature for boys and girls with the class and was anxious to get their reactions and feelings about various kinds of stories. The classes also were told what their particular class procedure for this period each day would be. Each class listened to the same background stimuli for approximately 10 minutes and the last 20 minutes were devoted to class discussion.

On the last day of discussion sessions, each pupil in each class was asked to fill out a questionnaire prepared by the examiner in order to determine the interest level of the pupils participating in one particular pattern of class discussion in that type of classroom procedure. Four pupils, or three percent of the total N, indicated that they did not enjoy the particular pattern of class discussion which they had engaged in during the study while all of the other pupils stated that either they enjoyed or enjoyed somewhat the type of classroom procedure used in their room during the study. The four pupils responding negatively represented all three patterns of class discussion stimuli. Twenty-six, or 16 percent of the total N, responded in the "somewhat" category indicating that they were not fully enthusiastic about the pattern of class discussion in which they engaged. These 26 also represented all of the three patterns of class discussion. On the basis that only 19 percent of the total number

of participants in the class discussions indicated that they reacted negatively in any degree to the class discussion supports an assumption that the interest level of the pupils was not a factor which would interfere with group achievement.

During the week following the discussion sessions, the Russell Sage Social Relations Test was again administered to each group to serve as a measure of the group's achievement in social relations. In order to vary the pre- and the post-tests problems, the footbridge and the dog designs were given to each group as a basis for their planning and working together. Again the ratings of the two observers were pooled immediately following each test, and the pooled ratings on each problem were averaged to give an index of the group's behavior on each variable. The results of this test are presented in terms of assigned ranks in Tables 8 and 9. This final rating on each variable was then statistically treated by employing the Kendall Coefficient of Concordance: W in order to determine the relationships in behavior between the groups. 1 The null hypotheses that the six groups are statistically unrelated in the ratings received on the Planning Stage and the Operations Stage of the post-test was rejected at the .05 level of significance, thus assuring the fact that all participants in the study were similar in their social relations skills at the end of the study, as measured by the Russell Sage Social Relations Test. Since all groups apparently came from the same population as far as the variables which could be measured statistically were concerned, no further analysis of the individual groups was necessary. It can be concluded from this statistical analysis that no one of the three patterns of class

¹Siegel, op. cit.

TABLE 8 COMPARISONS OF THE SIX GROUPS IN POST-TEST BEHAVIOR ON THE RUSSELL SAGE SOCIAL RELATIONS TEST: PLANNING STAGE

		s = 233	W = .677	-		
F		3.5	1.5	3.5	1.5	5
E		3	1	2	4	5
D		4	3	2	1	5
С		2	3.5	3.5	1	5
В		4	2.5	2.5	1	5
A		4	2	2	2	4
Group	Variable	Participation	Communication	Ideas	Plan	Involvement

TABLE 9 COMPARISONS OF THE SIX GROUPS IN POST-TEST BEHAVIOR ON THE RUSSELL SAGE SOCIAL RELATIONS TEST OPERATIONS STAGE

-Variable Group	Involvement	Activity	Success	Group Classification
A	3	2	4	1
В	3	2	4	1
С	3	2	4	1
D	3.5	3.5	1	2
E	3	1	4	2
F	3.5	3.5	2	1
				

s = 82 W = .229

discussion stimuli studied is more effective than the others in enabling pupils to achieve social relations skills as they are reflected in group behavior.

Summarizing the descriptive ratings, all six groups in the autonomy category were rated as having brief discussions with very little assistance from the examiner during the Planning Stage of the test. These ratings indicate a slight increase from the pre-test in the abilities of the group to plan on their own, but do not indicate that the differences are due to factors other than the increased familiarity with the test due to repetition. Five of the groups received an over-all classification of immaturity, while Group E was rated as restrained. These ratings also indicate that there was no significant change in the behavior of the groups from pre-test to post-test.

Subjective Observations of the Data and of the Discussion Sessions

It is of interest in this study to note that there were slight increases in ratings from pre-test to post-test in certain categories when the groups who engaged in the same pattern of class discussion stimuli are considered together. Table 10 presents the results of such an analysis.

From the above observations, it would appear that certain types of class discussion stimuli have the possibility of affording a better means than others to accomplish certain objectives.

The need for classroom teachers to set standards in each class for the different patterns of discussion in terms of objectives was observed. For example, in the Pupil-to-Pupil pattern of discussion where teacher domination was minimized, it was found that pupils were so used to raising

TABLE 10

REPORT OF OBSERVED GAINS MADE BY GROUPS ENGAGING IN THE SAME PATTERN OF GROUP DISCUSSION STIMULI FROM PRE-TEST TO POST-TEST

Groups	Type of Discussion	Variables	
AF	Pupil-to-Pupil	Participation Activity Success	
BD	Small Groups Reporting	Plan Involvement	
CE	Teacher-to-Pupil-to- Teacher	Communication Plan Involvement	

their hands and looking at the teacher when they talked, that standards of procedure had to be set in order to give the pupils an opportunity to develop skill in autonomy.

Some of the specific observations made by the examiner during this study that have implications for the classroom teacher in terms of improving the social relations skills of her pupils are listed below:

- 1. The perennial problem in the Pupil-to-Pupil pattern of discussion was the fact that a few pupils consistently did all of the talking.

 Individual responsibility for contributing to a discussion and the skill of drawing others into the discussion appeared to be an area for development in fifth-grade pupils.
- 2. Frequently during the study, the regular classroom teachers would comment that it was not their best pupils who were taking part.

 Assuming that they meant best in the academic sense, classroom teachers

should make constant observations of the relationships between academic ability and social ability in class discussions in order to determine the cause and effect relationships of the two.

- 3. The regular classroom teachers of the pupils involved in this study also frequently commented that many children who normally did little talking took an active interest in the discussion periods. This would indicate the need in most elementary classrooms for opportunities for class discussion centered around a variety of interest patterns.
- 4. The need for classroom teachers to determine the sources of difficulty of individual pupils who will not take part in class discussion was further illustrated when some children in this study would talk freely with the examiner outside the classroom, but would never take part in the class discussion.
- 5. In some instances, it was observed that pupils used the class discussion situation as an opportunity to display their hostility toward other members of the class by constantly directing questions to other pupils whom they obviously disliked. Since tolerance, acceptance of others, and friendly disagreements are goals of group discussion activities, the classroom teacher should be constantly aware of any abuses of the opportunities given to children to develop these skills.
- 6. Pupils often indicated a narrow span of thought, or the inability to think through a point of view as they talked. Many comments were short and stated simply as, "I think. . ." or "I feel. . ." without an explanation of why they thought or felt a certain way. Skill in developing ideas was an observed need of fifth-grade pupils as reflected through the behavior in discussion of pupils in this study.

7. The status structure of single classes was obvious in the group behavior of class discussions at times during the study. In the classes participating in the Small Groups pattern and the Pupil-to-Pupil pattern, certain pupils were always looked to first by the other pupils to make contributions. Whether such status structure is based upon the brightness of the pupil or upon the ability of individual pupils to express themselves well, or some other factor, the classroom teacher should constantly make an effort to see that all pupils feel that their comments have equal value with every other pupil's comments in a group discussion situation.

The above observations made by the examiner during the study are not intended to be a criticism of the particular pupils involved in the study, but are presented here because they are typical of the behavior which can and should be observed by any classroom teacher during class discussions which are designed to improve the social relations skills of the pupils.

CHAPTER V

SUMMARY AND CONCLUSIONS

This study was focused on a speech activity in the elementary school. Because throughout their school days and throughout their lives, children will probably use oral communication much more than any social relations skill, classroom discussion situations are a vital part of the elementary school program. This study evolved from the premise that little experimental work has been done in the teaching of oral communication of elementary school children as they function as a group, and that some of the theories and recommendations included in current textbooks should be subjected to further analysis.

Since certain social relations skills are needed by participants in group situations and one of the major goals of classroom discussion is to develop these skills, the purpose of this study was to find out if any one of three specific patterns of class discussion stimuli enables a class of fifth-grade pupils to achieve, as a group, any of the specific skills involved in social relations.

The specific purposes of this study were:

1. To compare selected patterns of class discussion stimuli as to their effectiveness in helping elementary school children improve their social relations skills

2. To relate the implications of the findings of the study for the classroom teacher as a partial criterion for the selection of class-room discussion procedures

In order to answer the questions raised by the stated purposes of the study, a survey of the recommended goals of groups discussion as they reflected the ultimate objectives sought in social relations was made by reviewing current textbooks for elementary teachers in language arts, social studies and speech. Twenty-two recommended goals of group discussion fell within the ten categories of the Russell Sage Social Relations Test, which was selected as a pre- and post-test for the subjects in the study. Each category in the test received a rating on a five-point scale by two observers as the classes participated in the test. The observers were trained and their reliability established prior to the testing sessions.

Six classes of fifth-grade children took part in ten consecutive sessions of class discussion, two groups being randomly assigned to one of the three patterns of class discussion stimuli selected for consideration in this experimental study. The three patterns of class discussion stimuli studied were (1) Pupil-to-Pupil Discussion, (2) Small Groups Reporting, and (3) Teacher-to-Pupil-to-Teacher Discussion. Types of literature and illustrative stories of each type were used as background stimuli for the class discussions.

Statistical analyses were made to establish that all groups came from the same population as far as verbal I.Q. and social adjustment were concerned and to compare the effectiveness of the outcomes of the three patterns of class discussion stimuli.

Findings

Even though the interpretations of each statistical analysis have been included in the preceding chapters as they were apropos to the results of the treatment of the data, the most significant findings are again reviewed here in order to receive a broader perspective of them in light " — of the entire study.

- 1. It was found that in the observer reliability study the two observers, who were to assess the amount of skill which a classroom group of children possess in a problem-solving situation, were sufficiently related in their ratings to continue to serve as observers in the experimental study.
- 2. An analysis of the ratings of the groups to determine statistically significant changes from pre-test to post-test indicated that no one single pattern of the three selected classroom discussion stimuli is more effective than the others in developing social relations skills when the entire class is evaluated as a group.
- 3. An analysis of the ratings of each group indicated that the outcomes commonly associated with the three patterns of classroom discussion are justifiable. Pupil-to-Pupil Discussion appears to increase group participation, success and activity more than the other patterns. Small Groups Reporting enables pupils to make progress in planning and involvement. Teacher-to-Pupil-to-Teacher Discussion appears to encourage group achievement in communication, plan and involvement.
- 4. A questionnaire submitted to all pupils participating in the study indicated that fifth-grade pupils have a high interest level in class discussion procedures, regardless of the pattern of stimuli.

Conclusions

The following conclusions and implications for the elementary school teacher may be drawn from the findings in this study:

- 1. Regardless of the pattern of stimuli, class discussion is a useful technique for developing the social skills of elementary school children.
- 2. When choosing discussion activities, the classroom teacher should set up objectives based upon recommended goals of group discussion and systematically offer opportunities for children to participate in this type of activity, as well as systematically measure the outcomes of group participation. This should be done, not only in terms of individual growth, but also in terms of the way individual pupils function in a group situation. The <u>Russell Sage Social Relations Test</u> proved to be a useful instrument which the classroom teacher might use to diagnose and measure the group behavior of her class in social relations skills.
- Social Relations Test, it was concluded that each pattern of class discussion stimuli appeared to develop specific social relations skills which are normally associated with that type of discussion; e.g., the free, open atmosphere which is characteristic of the Pupil-to-Pupil pattern of discussion enabled both classes engaging in this type, to make gains in pupil participation and activity when the two classes engaging in a different pattern of discussion did not both reflect gains in these particular areas. The same assumption can be made from the ratings of the two groups engaged in the Small Groups Reporting type of discussion. These two groups both made gains in the variables of plan and interest pattern

of the class which the two classes involved in the Pupil-to-Pupil pattern did not. The ratings on the communication variable reflected the gains of the two groups engaging in the Teacher-to-Pupil-to-Teacher pattern of discussion, while the two groups of the other patterns did not both reflect gains in this area when considered together.

4. From observations made during the study, implications of these for the classroom teacher were made in terms of improving the social relations skills of her pupils. It was concluded from these observations that classroom teachers should be aware of the many factors operating in the social interaction of pupils in order to set up objectives in a program of class discussion and to effectively offer guidance toward the attainment of desirable social skills.

Recommendations

Some of the recommendations for further study which can be derived from the findings and observations made in this study are listed below so that ways may be suggested in which our present understanding of the social skills of elementary children might be improved.

- 1. A longitudinal study of the social relations skills of elementary school children with age or grade level as a variable would aid in the present understanding of those skills which need the most attention at certain grade levels in the social development of children.
- 2. A comparison of the social relations skills of children of different sex, socio-economic levels, academic ability, or races would give further insight into the social development of children.
- 3. The need for valid and reliable instruments especially designed for elementary school children in measuring social relations skills and

group discussion behavior is at present a barrier to much needed research in these areas; consequently, the development of such instruments must be accomplished before further insights into these areas can be gained.

- 4. More and more teachers should become familiar with the <u>Russell</u>

 <u>Sage Social Relations Test</u> as a possible instrument for classroom use in helping to determine the social skills of pupils.
- 5. Studies centered around the group discussion behavior of pupils when pressures such as grades are applied and the behavior of pupils when artificial pressures are eliminated would help to increase our understandings of the effects of such stimuli.
- 6. Comparisons of individual growth in social relations skills and group accomplishments in discussion should reveal the transfer of learning in this area to applicable situations where the learning is actually put to a test.
- 7. The intra-class structure as revealed through sociometric measurements as compared with group achievements of certain objectives would improve our knowledge of the effects status structure has upon the functioning of a group of elementary children.
- 8. Peer-ratings in discussion compared with trained observers' ratings might serve to reveal the understandings of pupils of the purposes and goals of a classroom activity involving discussion.

The social relations skills of effective oral communication, constructive participation in a group, thinking through problems and devising a plan of action, autonomy, relevant activity and interest, personal satisfaction with group success, and contributing to a desirable atmosphere while working cooperatively and sharing with others are all-pervasive in our daily lives. The American elementary school has accepted the responsibility for helping to develop these skills in the pupils for whom it assumes guidance in learning. The classroom discussion situation is the most prevalent avenue in the elementary school for developing these skills and by continuing, through research, to isolate various patterns of class discussion stimuli in terms of objectives sought by the activity, understandings and insights into the social development of children will enable the classroom teacher to fulfill her responsibility in the educational process.

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RAW DATA SCORES ON THE LORGE-THORNDIKE INTELLIGENCE TEST AND THE CALIFORNIA TEST OF PERSONALITY

APPENDIX A

			v	erbal	I. Q	•			Soc	cial A	Adjust	ment	
D	Group	٨	D	С	D	10	172	<u> </u>	D	С	D		77
Pupil		A	В		D	E	F	A	В	<u> </u>	D	E	F
1		122	108	119	83	121	96	61	66	35	32	69	56
2		113	115	114	98	106	120	68	50	69	60	70	57
3		123	111	102	91	107	123	46	66	50	49	64	55
4		127	121	83	128	106	116	70	58	46	36	46	68
5		111	117	83	124	109	119	51	63	36	62	70	64
6		110	111	83	105	107	107	67	57	40	28	66	64
7		89	119	121	88	116	88	25	63	69	49	61	60
8		102	119	108	125	138	107	51	69	64	59	64	58
9		92	101	96	109	105	90	64	67	60	56	52	55
10		114	108	95	106	123	113	66	67	58	66	66	51
11		112	106	104	99	92	76	55	62	64	69	53	33
12		138	130	99	119	122	106	66	67	59	70	63	69
13		123	124	116	92	114	116	43	68	64	34	66	67
14		131	109	112	87	119	123	66	48	47	55	57	50
15		121	106	118	112	115	101	69	52	54	41	53	60
16		121	117	94	99	106	100	64	65	62	59	55	41
17		114	108	121	101	88	97	71	62	56	33	39	53
18		140	103	104	109	97	105	65	54	68	49	45	61
19		115	96	122	107	94	111	46	50	63	55	71	58
20		104	105	90	115	118	95	66	48	45	55	58	58
21		109	127	108	110	118		66	71	69	54	60	
22		122	104	117	117	125		63	37	62	69	64	
23		97	138	74	85	117		50	67	35	44	60	
24		82	76	105	88	112		44	33	52	39	67	
25		121	82			118		67	39			53	
26		75	93			105		43	60			68	
27		111	118			103		57	51			59	
28		103	103			130		59	38			47	
29		101	115			128		48	67			58	
30		~~~				111		.,,	٠,			59	
31						98						62	
32						105						60	

OBSERVER RATINGS ON THE RUSSELL SAGE SOCIAL RELATIONS TEST

Inter-Reliability Study

Planning Stage

	G	roup	R		G	roup	S		G	roup	K		G	roup	M	
	Test		Re-T Prob	est lems	Test Prob		Re-T Prob	est lems	Test Prob		Re-T Prob		Test Prob		Re-T Prob	
	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1.	2
Observer X	4	5	5	5	2.5	4	4	4	5	5	5	5	4	4	4	*
Observer Y	5	5	4	5	3	4	2.5	4	4	4	4	5	1.5	3	3	*
			·· - · · · · · · · · · · · · · · · · ·		Op	erat	ions	Stage	 				. , 		<u></u>	·····
Observer X	4	3.5	4	3.5	2.5	2.5	3.5	2.5	4	4	3.5	3.5	3.5	3.5	2.5	*
Observer Y	5	4	2.5	1.5	4	1	2.5	2.5	3.5	2.5	5	5	3.5	3.5	2	*

^{*} problem not completed by the class

OBSERVER RATINGS ON THE RUSSELL SAGE SOCIAL RELATIONS TEST Intra-Reliability Study

Observer X
Planning Stage

	Group	R	Group	s	Grou	p K	Group	M
Problems	1	2	1	2	1	2	1	2
Test	4	5	2.5	4	5	5	4	*
Re-test	5	5	4	4	5	5	4	*
			Operation	s Stag	ge			
Test	4	3.5	2.5	2.5	4	4	3.5	*
Re-test	4	3.5	3.5	2.5	3.5	3.5	2.5	*

^{*} problem not completed by the class

Observer Y
Planning Stage

	Grou	p R	Grou	p S	Grou	р К	Group	M
Problems	1	2	1	2	1	2	1	2
Test	4	3.5	2.5	2.5	4	4	3.5	*
Re-test	4	3.5	3.5	2.5	3.5	3.5	2.5	*
			O peratio	ns Stage	2	-		
Test	5	4	4	1	3.5	2.5	3.5	*
Re-test	2.5	1.5	2.5	2.5	5	5	2	*

^{*} problem not completed by the class

Pooled Observer Ratings in the Russell Sage Social Relations Tests Planning Stage

		GROUP A				GR	OUP B	-		GRO	JP C	- · · · · · · · ·
	Pr	e	Pos	t		Pre	Po	st	P	re	Po	st
	Prob.1	Prob.2	Prob.1	Prob.2	Prob.1	Prob.2	Prob.1	Prob.2	Prob.1	Prob.2	Prob.1	Prob.2
articipation	2	2	2.5	3	4	2	2	2.5	2.5	2.5	1.5	2
communication	1.5	1	1	3	4	2	2	2	1.5	1	1	1.5
deas	3	3	2	2	3.5	2	2	2	2	2	2	3.5
lan	2	2	2	2	1.5	1	2	1.5	2	2	1	1
nvolvement	3.5	4	4	4	4	4.5	5	4.5	3	4	4	4
utonomy	2A	2A	2 PA	3A	5	5	3A	3A	1.5AP	1.5AP	1P	1P
ver-All lassification	3 *	3 *	3 *	3 *	3 *	3 *	3 *	3 *	3 *	3 *	3 *	3 *

		GROU	P D			GRO	OUP E			GRO!	UP F	
	Pr	e	Pos	t		Pre	Po	st	P	re	Po	st
	Prob.1	Prob.2	Prob.1	Prob.2	Prob.1	Prob.2	Prob.1	Prob.2	Prob.1	Prob.2	Prob.1	Prob.2
Participation	2	3	3	2.5	3.5	3.5	3	2.5	2	2	2.5	2
Communication	1	1	2.5	2	1	2	3	1.5	1	1	1.5	1.5
Ideas	2	2	2	2	2	3	3	2	2	2	2.5	2
Plan	1	1	1.5	1.5	1	3	4	4	2	1.5	1.5	1.5
Autonomy	2A	2A	2A	2A	2A	3A	2P	2AP	1A 2P	1A 2P	2P	2 P
Over-All Classification	3 *	3 *	3 *	3 *	4 **	4 **	3 *	3 *	3 *	3 *	2 ***	2 ***

^{*} Immature

^{**} Semi-Controled

Pooled Observer Ratings in the <u>Russell Sage Social Relations Tests</u>
Operations Stage

		GROUP A				GR	OUP B			GRO	UP C	
	Pr	e	Pos	t		Pre	Pc	st	P	re	Po	st
	Prob.1	Prob.2	Prob.1	Prob.2	Prob.1	Prob.2	Prob.1	Prob.2	Prob.1	Prob.2	Prob.1	Prob.2
Involvement	4.5	4.5	4.5	4.5	4.5	3.5	4	3	5	3.5	4	3.5
Atmosphere	3н	3н	5-4H	2E-3H	1.5H	2H	3Н	3H-3E	3E	2E-3H	2E	2H
Activity	2	2	4.5	4	1.5	3	3	3.5	5	2	3	3
Success	3	5	5	5	3	4	5	5	5	5	5	4
Over-All Classification	3.5 **	3.5 **	3.5 *	3.5 *	2.5 ***	3 **	3 *	3 *	3.5 *	3.5 *	1.5 ****	1.5 ****

		GROU	PD			GR	OUP E			GRO	UP F	
	Pr	•	Pos	t		Fre	Po	st	P	re	Po	st
	Prob.1	Prob.2	Prob.1	Prob.2	Prob.1	Prob.2	Prob.1	Prob.2	Prob.1	Prob.2	Prob.1	Prob.2
Involvement	5	4	4	4	3	3.5	3.5	4	4	4	5	4
Atmosphere	HN	HE	HE	ЕН	1.5H	3СН	3Н	3н	3Н	3Н	4н	2E
Activity	5	4	4	4	1	3	3.5	3	3.5	4	5	4
Success	3	4	4	1.5	3	4	5	5	3	3	5	2
Over-All Classification	4 *	4 *	4 *	3 ***	2 **	3.5 ***	4 **	3 **	3 ***	3 *	4 ★	1.5 ****

* Immature ** Excited *** Bickering **** Rowdy

APPENDIX B

Rating Sheets

RSSR OBSERVATION RECORD

Planning Stage

Teacher	School _		Grade	e 1	No. in Gr	oup
Examiner						
Involvement	Blocks	Initial	Middle	Middle	Middle	Decision
Ideas			· · · · · · · · · · · · · · · · · · ·			
Construction Group						
Leader-Groups						
Organized Groups						
Leader only						
Nominations-Select	ions					
Unorganized Groups						
All at once						
Unscorable						
Same as last time						
Communication						
Suggests Different	Idea					
Repeats Idea						
Evaluates-Improves	Idea					
Autonomy						
Prods						
Reminds						
Assists						

Plan:

RSSR OBSERVATION RECORD

Operations Stage

Involvement		-,	,		 ,	
90-100%						
Approximately 75%						
Approximately 50%						
Approximately 25%						
Fewer than 25%						
Atmosphere						
Quiet-Suppressed						
Friendly-Supportive						
Noisy-Joking						
Tense-Excited						
Bickering-Squabbling						
Boisterous-Screaming						
Angry-Quarrelsome						
Activity						
Socializing-Quiet Play						
Sitting or Working						
Noisy Play			:			
Heckling-Nagging	1		, 1	3		
Success: Time problem comple	ted					
Number of errors						
Test Stopped						

SCORING PROFILE SHEET

Planning Stage

Teacher		Sch	1001			Grade	No.	in group	
Examiner		Obs	erver		····	Date	Prob	lems	
		Profi	le of	Group	Perfor	mance*			
	Partio	cipati	on _			3			
			_			3	4	5	
	Commu	nicati	lon		2	3	4	5	
	Ideas								
			1		2	3	4	5	
	Plan				2	3	4	5	
	Invol	uaman i					·	J	
	Invol	v emetr	1		2	3	4	5	
	Auton	omy				3	4		
	(reco		A, 1		2	3	4	5	
		<u>C</u>	lassif	icatio	on of G		(a : a - a b - a	Dating on D) 1 .
Group Type	Partic.	Com.	Ideas	Plan	Invol.			Rating on P	
Mature	5	4-5	4-5	5	5	5	5		-
Dependent	4-5	3-4	3-4-5	4-5	4-5	4A	4		
Immature	2	1-2	1-2	1-2	4-5	1A-2A-3A	4* A	-	
Semi-Contld.	3-4	4-5	4-5	4-5	3-4-5	3R-4R	4		,
Semi-Restnd.	3-4	3-4	3-4-5	3-4-	5 2-3	3P-3A-4	A 3		_
	1		1 0			1 m 0 m	1 0		

*Performance on problem 1 is recorded in blue Performance on problem 2 is recorded in red Performance on problem 3 is recorded in black

1-2 1-2

1-2 1-2

1R-2R

1P-2P

1 or 2

1 or 2

1-2 1-2

1-2

1-2

Uncontrolled 1

1-2

Restrained

**The distinguishing feature of the profile of the Immature Group is an average score of 1 or 2 on the first four variables combined with a high score on Involvement and an Assist rating on Autonomy.

SCORING PROFILE SHEET

Operations Stage

Profile of Group Performance*

Involvement					
	1	2	3	4	5
Atmosphere					
•	1	2	3	4	5
Activity					
•	1	2	3	. 4	5
Success					
	1	2	3	4	5

Classification of Group

Group Type	<u>Involvement</u>	Atmosphere	Activity	Success	Majority of Scores	Rating on Prob- lems 1, 2, 3
Mature	5	5	5	5	5	
Rollicking	4 - 5	4N	4 - 5	3-4-5	4	-
Suppressed	3-4	4H	3-4	3-4-5	3 or 4	
Immature	4 - 5	3E-4E-5	4-5	2-3-4	3 or 4	
Excited	3-4-5	2E-3E-4E	4 - 5	2-3-4	3 or 4	
Bickering	2-3	3н	1-3	2-3-4	2 or 3	
Disintereste	ed 1-2	4H-4E-5	3	4 - 5	**	
Rowdy	2-3	1E - 2E	1-2	1-2	1 or 2	
Quarreling	2-3	1H-2H	1-2	1-2	1 or 2	

^{*}Record performance on each problem using the same color code as employed in the planning stage.

^{**}The distinguishing feature of the profile of the Disinterested Group is the low involvement score coupled with the high Success score.

APPENDIX C

CLASS DISCUSSION QUESTIONS

Background Stimulus Number: 1 Type of Literature: <u>Historical Fiction</u>

Book: Keith, Harold. Rifles for Watie. New York: Thomas Y. Crowell Company, 1959.

- 1. What are some other things about Jeff and Bess which the first part of the story did not tell that you would be interested in knowing? Why?
- 2. How would you describe the homelife of Jeff and Bess?
- 3. How would you describe the bushwackers?
- 4. Why do you think Jeff didn't trust the bushwackers at first glance?
- 5. Why do you think Jeff tried so hard to think of ways to help his family? What does this tell us about Jeff's character?
- 6. Can you think of other ways that Jeff and Bess might have helped their family solve the problem which confronted them?
- 7. How do you think fathers should react, and what do you think they should do, when a son tells them that he wants to leave home and join the army?
- 8. Do you think that fist-fighting was more important in those days than it is now? Why?
- 9. What do you think of Jeff's Statement, "I don't want it (the war) to end before I get there?"
- 10. What other situations do you think Jeff will get into as he joins the army?
- 11. How do you think Jeff and his sister would be dressed for their duties around the house?
- 12. Can you think of any problems that Jeff might have as he leaves home? How do you think he will solve these problems?
- 13. Do you think the story is of interest to both boys and girls? Explain.
- 14. What do you think of stories where the author mixes real facts with imaginary facts? Why?
- 15. Do you like to read stories that take place near your own home or state? Why or why not?

	Background	Stimulus	Number:		Type of	Literature:	Myths
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Book: Kipling, Rudyard. <u>Just So Stories</u>. Garden City, New York:
Doubleday and Company, 1912. "How the Rhinoceros Got his Skin".

- 1. What do you think a Parsee looks like?
- 2. What do you think you would have done if a rhinoceros had come up to you?
- 3. Where do you think the Mazanderos, Socotra and Promontories of the larger Equinox are?
- 4. What does a rhinoceros' skin remind you of? Why?
- 5. What do you think would be a good name for the rhinoceros?
- 6. Can you think of other ways the Parsee could have gotten revenge?
- 7. What other myths can you remember reading?
- 8. Do you like for myths to be comical or serious? Why?
- 9. What do you think the Parsee was thinking as he watched the rhinoceros put on his new skin?
- 10. What other animals have you read about that have bad tempers and poor manners?
- 11. How would you describe the uninhibited island on the shores of the Red Sea?
- 12. Why do you think legends and myths from different countries are strangely alike?
- 13. What do you think of exaggerations like, "one smile that ran around his face two times" in stories?
- 14. Do you like to read myths? Why?
- 15. What do you think is the difference between a fairy tale, a fable and a myth?

Background	Stimulus	Number:	3	Type of	Literature:	Family Life

Book: Forbes, Kathryn. Mama's Bank Account. New York: Harcourt, Brace and Company, 1943.

- 1. When do you think this story is taking place? Why?
- 2. What kind of transportation, communication, dress, etc., did they have at this time?
- 3. Do you feel that families did more things together then than they do now? Explain.
- 4. Did you feel that the story moved smoothly, or did you feel that the author was awkward in presenting it?
- 5. Did the sentences seem too short and choppy, or too long and complicated?
- 6. What are some things the family could have done when they found out that Mr. Hyde had written them a bad check? What would you have done?
- 7. How would you describe the family's relationships to each other and what kind of a house do you think they lived in?
- 8. What did you feel was the importance of describing how the neighbors moved away?
- 9. Do you like stories that are divided into separate incidents like this one, or do you prefer stories that lead up to one main part? Why?
- 10. Why do you think Nels would be only thinking about going to high school? What did a high school education mean at this time?
- 11. Do you like to read stories about people from foreign countries who now live in America? Why?
- 12. What do you think inspired the author to write this story? What was her purpose in writing the story?
- 13. Do you think that all people have to be famous to have a book written about them? Why?
- 14. Do you like stories written in first-person? Why?
- 15. Do you like to read stories centered around family life? What other stories have you read like this?

Background Stimulus Number:	+ Type of	Literature:	Adventure
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Book: Sperry, Armstrong. <u>Call It Courage</u>. New York: The Macmillan Company, 1943.

1. What do you think might have caused Mafatu's fear of the sea?

- 2. How do you imagine the other boys and girls and the older people on the island acted toward Mafatu because of his fear?
- 3. What do you suppose Mafatu's parents thought about his fear?
- 4. How do you think Mafatu acted towards the other people on the island because of his fear?
- 5. What would you do to try to help someone you knew that had a fear that everyone made fun of?
- 6. What should a person do himself about a fear that he has?
- 7. If you found yourself on an island all alone what would be some of the first things you would do?
- 8. How do you think Mafatu's pets, the dog, Uri, and the albatross, Kivi, helped him while they were on the island?
- 9. Can you remember reading or hearing about some of the customs of island people? If so, what were they?
- 10. How would you describe the Sacred Place of the eaters-of-man?
- 11. How do you explain the fact that Mafatu was so brave while he was on the island when he had been so afraid before?
- 12. How do you suppose Mafatu managed to build a canoe and kill animals for food?
- 13. How do you suppose the story ends?
- 14. If Mafatu ever returns home, how do you think his people will feel about him then?
- 15. If you enjoy adventure stories a lot, what is it about them that makes you like to read them?

Background	Stimulus	Number:	5	Type	οt	Literature:	Mystery

Book: McCloskey, Robert. <u>Homer Price</u>. New York: The Viking Press, 1949. "The Case of the Sensational Scent".

- 1. Can you think of some other appropriate names for the skunk?
- 2. What are some other things that Homer might have done to capture the robbers?
- 3. Did you find any exaggerations in the story? Why are exaggerations put into stories?
- 4. Did you think it was typical of a sheriff to act the way the one in the story did when told of the whereabouts of the robbers?
- 5. What is meant by the statement "Our early environment is responsible for our actions"?
- 6. What newspaper headlines can you imagine appeared after Homer captured the robbers?
- 7. Can you think of any ways that Homer might have helped his parents by capturing the robbers?
- 8. How do you suppose the sheriff felt when he discovered that Homer really did have the robbers in the tourist court?
- 9. What do you think is the difference between a detective story and a supernatural story? What have you lead of each kind?
- 10. What is the main thing in a mystery story that causes you to enjoy it?
- 11. When compared with the other stories we have read, what do you find missing?
- 12. What are some other possible endings for the story?
- 13. What are some other unusual pets boys and girls might have and what would be the fun in having them?
- 14. What do you think are the values in reading mysteries?
- 15. Do you think girls like mysteries as well as boys? Explain.

]	Background	Stimul	lus Nur	mber:	6	Type	οÍ	Literature:	History	-

Book: Shippen, Katherine B. <u>New Found World</u>. New York: The Viking Press, 1945.

- 1. What kinds of exciting things can you imagine there are to do and watch in South America?
- 2. Do you think that all conquerors are mean and force people to do things they don't want to do?
- 3. Do you think that conquerors often do not practice conservation of natural resources and thus exhaust the supply quickly?
- 4. Why do you suppose the story about El Dorado got started?
- 5. Do you think that there is a place, or ever really was a place, like El Dorado? How do you think it might look?
- 6. Can you think of other stories where men have endlessly searched for something that does not exist?
- 7. What do you think drives men to search for things that they are not sure of finding?
- 8. How do you think people would feel and do if they actually found something after a long search?
- 9. Do most people have some unconquerable goal in their minds? What is the importance of this to human beings?
- 10. What picture do you get of the thick jungles of South America?
- 11. How do you think the Indians in South America in those early days differed from those living in what we call the United States?
- 12. How would you solve the riddle of how Quesado and men managed to settle down and live with the Chibchas Indians after they had killed the Indians' leaders?
- 13. Do you think there are many unexplored places left where a person can have exciting and dangerous adventures?
- 14. Do you like to explore, even if it is just in a nearby woods? What kind of enjoyment do you get from it?
- 15. How do you like reading real history as compared with reading other kinds of books?

Background Stimulus Number: 7 Type of Literature: Science Fiction

Book: Cameron, Eleanor. Stowaway to the Mushroom Planet. Boston: Little, Brown and Company, 1956.

- What value do you think you get out of reading science-fiction stories?
- 2. Why do you think science is important in our daily lives?
- 3. What are some different kinds of science?
- 4. Would you like to belong to a science club? If so, what kind and why?
- 5. How would you describe a science-fiction story in relation to other kinds of stories?
- 6. Do you think <u>The Arabian Nights</u> and other very old stories might be called science-fiction? Why?
- 7. In your own words, describe the people of the Mushroom Planet.
- 8. What do you think Charles and David will find inside the Hall of the Ancient Ones?
- 9. What do you think will happen to Horatio?
- 10. What do you think the space ship of Charles and David looked like?
- 11. What do you find in the story that seems unreal?
- 12. What other stories of science-fiction have you read?
- 13. Do you think girls are as interested in science and science-fiction as boys?
- 14. Why do you think Mr. Bass so mysteriously disappeared?
- 15. What is it in science-fiction stories that you like best?

Background Stimulus Number: 8 Type of Literature: Social Problems

Book: Lenski, Lois. Judy's Journey. New York: J. B. Lippincott Company,
1947.

- 1. Why do you think Judy did not want to leave her new life in Bean Town when she had once thought it awful and dreadful?
- 2. Why do you think Judy did especially good work in school on the day of Gloria's party?
- 3. What do the statements that Judy brought Miss Norris, the teacher, some flowers and didn't forget about her little brother and sister after school, tell us about Judy?
- 4. Do you think Gloria and her friends disliked Judy mainly because she was older and bigger?
- 5. What do you think Gloria should have done? What could some of her friends have done to help Judy?
- 6. Do you think that disappointments are sometimes good for people? Explain.
- 7. Do you think Judy was wrong in wanting to associate with Gloria and her friends?
- 8. Why do you think it was so important to Judy to go to Gloria's party?
- 9. How should you act if someone starts tearing down a friend you like very much?
- 10. Why was Judy glad that she had not said anything to Gloria?
- 11. Do you think it helped Judy to forget her hurt feelings by moving away?
- 12. What do you think Judy learned from this experience?
- 13. What do you think friendship means?
- 14. Why are stories about big problems, like migrant families, important for us all to read?
- 15. Do you think we learn a lot about ourselves, about how to act and how to be, by reading stories like this? Explain.

Background	Stimulus	Number:	9	Type	of	Literature:	Poetry
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Book: Bailey, Matilda and Leavell, Ullin W. Worlds of Adventure. New York: American Book Company, 1951. Selected Poems

- 1. Did you see any truth in the poem about Pirate Don Durk? Explain.
- 2. What do you think makes the poem about "How to Tell Wild Animals" funny?
- 3. What is the lesson to be learned from "The Raven and the Fox"?
- 4. What are some of the impossibilities you noticed in "Robinson Crusoe's Story"?
- 5. What are some of the things that keep you from doing your work that you mean to do each day?
- 6. How do you think the man who had two loves solved his problem?
- 7. How would you describe Angela and Carlotta?
- 8. What part of the poem "Casey at the Bat" gives you the greatest surprise?
- 9. Do you think that Casey deserved what came to him? Why?
- 10. Are people you know ever like Casey?
- 11. Do you think the author of "Casey at the Bat" knew a lot about baseball? Why?
- 12. How do you like poetry as compared with other kinds of reading?
- 13. What do you think makes a good poem?
- 14. Why do you think the rhythm is important to poetry?
- 15. What are some types of poetry that you remember reading?

Background Stimulus Number:	10	Type of Liter	ature: <u>Classics</u>
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Book: Kottmeyer, William (adapt.) <u>King Arthur and His Knights</u>. St. Louis: Webster Publishing Company, 1952.

- 1. Why do you think a knight of old would have a hard time in battle today?
- 2. What personal characteristics do you think a knight had to have?
- 3. What do you think was the real reason that knights fought?
- 4. What kind of weapons do you suppose a knight carried besides his sword?
- 5. What do you think a knight looked like when he was dressed for battle or for an adventure?
- 6. Can you describe how the fair ladies of the time might have looked?
- 7. How do you think knights ordinarily got training for their job?
- 8. Why do you suppose some knights called themselves the Red Knight, the Black Knight, the Green Knight, etc.?
- 9. What did you think of Sir Lancelot making Gareth a knight out in the middle of a forest? What other ways could a person be made a knight?
- 10. The age of knights and knighthood is often called, "The Age of Chivalry." What do you suppose this means?
- 11. What do you think caused knighthood to go out of style?
- 12. What do you think happened to a knight who was guilty of cowardice or some other serious misconduct?
- 13. Why do you think the Lady Linet asked Gareth to spare the lives of several of the mean knights he fought with?
- 14. In England today, some people are still honored by being knighted. What do you think it means today?
- 15. What other stories have you read that have knights and fair ladies in them?

APPENDIX D

EXAMPLES OF CLASS DISCUSSION TAKEN FROM A TAPE RECORDING

Background Stimuli: Lenski, Lois, Judy's Journey.

I. Teacher-to-Pupil-to-Teacher: (All names used are fictitious)

Examiner: Richard, why do you think Judy did especially good work in school the day of Gloria's party?

Richard: Well, she wanted to show that she was just as good as they were so she could go to the party.

Examiner: Lois, do you think that Gloria and her friends disliked Judy mainly because she was older and bigger?

Lois: Maybe that was the reason, and maybe it was because she wasn't as well as them or as rich as them, or something. (Janie raises her hand)

Examiner: Alright, Janie.

Janie: Maybe because she moved around so much, or maybe she didn't dress like they did and they were poor. Maybe because she made better grades than they did.

Examiner: Bill, do you think that disappointments are sometimes good for people?

Bill: Oh, sometimes they are and sometimes they aren't. In that story, it taught them that she was just as good as they were.

Examiner: Richard?

Richard: Sometimes we don't always get our way. We have to have sorrow sometimes because you can't have all happiness.

Examiner: Don, why do you think it was so important to Judy to go to Gloria's party?

Don: I think that she wanted to make more friends and to find something better than what she had.

Examiner: Sue, why was Judy glad that she had not said anything to Gloria?

Sue: Well, I don't know.

Examiner: Larry?

Larry: Because she thought that she would have really been sad afterwards if she had said anything.

Examiner: Sally, what do you think Judy learned from this experience?

Sally: I think that she learned that she could get over her disappointments.

II. Pupil-to-Pupil: (All names used are fictitious)

Billy: I think if I had been Gloria I would have got the girls together and got some money to buy Judy some shoes.

John: Yeah, but I think Gloria was real mean and thought that she was real big and everything like that.

Billy: Gloria and the girls didn't want Judy to come to the party because she was so good in arithmetic and because she shouldn't have been in the fourth grade.

Bryan: I don't think Gloria should have made fun of her because she didn't have any shoes and because her family was poor and everything.

Sharon: I think that the reason she was so good in school that day was because she was looking forward to the party.

Mary: I think that Judy acted right when she didn't say anything to Gloria.

John: I don't. When Gloria stamped her foot, if she was mad enough, she should have slapped at that other girl.

Betty: I think Judy had pigtails and was all messed up, and a feedsack dress on, and that her father had on blue carpenter's overalls.

Jimmy: What do you think of it, Judy?

Judy: I think that the fortune teller was kind and thoughtful and she had long black hair and long furs and stuff like that.

Bryan: I believe that she was a gypsy.

Carol: I think she had long black hair with braids.

John: I think she was a real old fat girl.

Billy: I think Judy's little brother was about six and the other one about seven.

Louise: I think Gloria should have invited her to the party, and when she didn't, Judy should have told her mother.

Ted: I disagree with Billy when he said that Judy's little brother was six and her little sister was seven. I think the girl was about three and the brother would be about four.

(Several pupils talk at once)

Billy: (Keeps talking after the others stop) She said that she had to see that they got home safely after school, so I think they would probably be six or seven.

(Several pupils begin, "I think. . . ")

Sam: I think the car they had was sort of a jalopy and it was about 1930 or '49.

Phil: I disagree with you, Sam, because this story seems like it was about 1900 or something like that, and they couldn't have a 1930 automobile if it was in about 1900. They had a Model A or something like that.

Mike: Margie, weren't you trying to say something?

Margie: I believe that they finally found a place cheap enough and got enough money and bought the place and stayed there.

III. Small Groups Reporting: (All names used are fictitious)

Janie Reporting: Why do you think Judy did especially good work in school on the day of Gloria's party? We thought because she was happy and was going to the party. Allen?

Allen: Well, she did especially good work because if she didn't she might have had to stay a little bit after school and get some of her work done.

Janie Reporting: What do the statements that Judy brought Miss Norris, the teacher, some flowers and didn't forget about her little brother and sister after school, tell us about Judy? We thought that she wasn't only thinking about herself.

Clara Reporting: Do you think Gloria and her friends disliked Judy mainly because she was older and bigger? Well, we thought that maybe that was it too, but she was a migrant and her father and mother moved from place to place. Sue?

Sue: And it said in the story that some of them didn't like her because she was poor.

Clara: Jim?

Jim: Because word probably got around town that her father and mother got fired.

Clara Reporting: What do you think Gloria should have done? We thought she should have helped out some way by inviting her to the party and making her happier. To help her out in school or to get her something; I mean, to make her feel like they wanted her to feel.

Clara Reporting: Do you think that disappointments are sometimes good for people? We thought that if they didn't have disappointments, they probably wouldn't know what it felt like or what to do if it came up.

Howard Reporting: Do you think it helped Judy to forget her hurt feelings by moving away? We thought, Yeah.

Ruby (in the same group): I'd say no, because she could have made friends again and she wouldn't have to face disappointments so much.

Howard Reporting: What do you think Judy learned from this experience?

We thought that to go to parties you have to have shoes and money and better clothes and that you have to be invited to a party.

Kent Reporting: What do you think friendship means? Well, our group thought that friendship means when you like a few other people and the other people like you.

APPENDIX E

PUPIL QUESTIONNAIRE

DO NOT WRITE YOUR NAME ON THIS PAPER

Gro	Boy or Girl:
ı.	ow much did you enjoy the type of class discussion we had?
	Mark one:
	I enjoyed it very much: I enjoyed it somewhat: I did not enjoy it very much: I did not enjoy it at all:
II.	hich type of story or literature did you enjoy the most and which ype did you enjoy the least?
	. I enjoyed (write letter) the most I enjoyed (write letter) the least.
	TYPES:
	A. Historical FictionRifles for Watie
	B. MythsJust So Stories "How the Rhinoceros Got His Skin"
	C. Family LifeMama's Bank Account
	D. AdventureCall It Courage
	E. MysteryHomer Price "The Case of the Sensational Scent"
	F. HistoryNew Found World
	G. Science Fiction Stowaway to the Mushroom Planet
	H. Social ProblemsJudy's Journey
	I. Selected Poems I. ClassicaVing Arthur and His Knights

GIRLS

RESULTS OF THE QUESTIONNAIRE

I. How much do you enjoy the type of discussion we had?

1.	Group: I enjoy it very much:	A 13	В 11	D 12		F 12	Totals 72
2.	I enjoy it somewhat:	2	2	2	1	6	13
3.	I do not enjoy it very much:						0
4.	I do not enjoy it at all:						. 0

II. Which type of story or literature do you enjoy the most and which type do you enjoy the least?

	Group:		Α	В		С		D		E		F		Tot	als	
1.	Historical Fiction	M 2	L 1	М 1	L	M	L	M	L	M	L	M 2	L 3	M 5	L 5	
	miscorical riction	۷	Ţ	1			1						3	ر	J	
2.	Myths		2	1	1		2		3	1	2	2	1	4	11	
3.	Family Life		2	2	2	3		3		3		2		13	4	
4.	Adventure	3		1	1		1		,1		2		1	4	6	
5.	Mystery	3		3		2	1	2	1	5		3		18	2	
6.	History		6	1	7	1	5		4		2	1	8	3	34	
7.	Science Fiction	4		2				5	1	2		4	1	19	2	
8.	Social Problems	1	1	1	1	6		2		2	2	1	1	13	5	
9.	Poetry		3		1		2		3		3		2	0	14	
10.	Classics	1		1				2	1		2	4		8	3	

BOYS

RESULTS OF QUESTIONNAIRE

I. How much do you enjoy the type of discussion we had?

1.	Group: I enjoy it very much:		B 18					Totals 81
2.	I enjoy it somewhat:	4	1	1	1	4	2	13
3.	I do not enjoy it very much:			2	1		1	4
4.	I do not enjoy it at all:							0

II. Which type of story or literature do you enjoy the most and which type do you enjoy the least?

		Α		В		C		D		E		F		Totals		
1.	Historical Fiction	M 4	L 1	M 2	L 1	M 1	L 1	M	L 2	М	L	M	L 1	M 7	L 6	
2.	Myths		3				2	1	2		4		2	1	13	
3.	Family Life		2	4	2		2			1	1		1	5	8	
4.	Adventure	2	1	1		1		2		2	1	1		9	2	
5.	Mystery			2	3	2		4		5		6		19	3	
6.	History	1			8	1	4	2			3		5	4	20	
7.	Science Fiction	8		6	1	5		1	3	5		2		27	4	
8.	Social Problems		3		1		1		2	1	3		4	1	14	
9.	Poetry		6	1	3		2		4		6		1	1	22	
10.	Classics	1		3		2		4	1	5	1	6		21	2	