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Some Effects of Specific Kinds of Interpersonal Responses on Specific Seventh Grade Students as Measured by Their Scores on a Personal Attitude Scale

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SOME EFFECTS OF SPECIFIC KINDS OF INTERPERSONAL RESPONSES ON SPECIFIC SEVENTH GRADE STUDENTS AS MEASURED BY THEIR SCORES ON A PERSONAL ATTITUDE SCALE.

Presented to

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Submitted in Partial Fulfillment

of the Requirements for the Degree

of Master of Arts, Lindenwood College

by

Daniel Brown

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SOME EFFECTS OF SPECIFIC KINDS OF
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STUDENTS AS MEASURED BY THEIR SCORES ON A PERSONAL
ATTITUDE SCALE

A princry tool for directing this search may be found in

truent interpersonal communications with them. To

the area of intermediate CHAPTER I

DEVELOPMENT OF THE PROBLEM

# A. Introduction of communication the teacher must be

It is my belief that varied concerns exist for the educator(s) in the public school system today. The concerns are widespread and exist within each school district, each school, each age level and each individual class. Of particular concern for the classroom teacher is the variety of student types found within class groups. Within the individual class group can be found students with personal backgrounds and current life styles representing a wide range of moral. cultural, intellectual and educational levels. Therefore, within a single class group a teacher may be expected to deal with students with a broad spectrum of needs: sociological, economic, philosophical, moral and affective. In addition, students with learning disabilities are quite often members of this class. Some of these learning dissbilities are mental retardation, emotional problems, behavioral problems and actual physical handicaps.

The existence of students with diversified needs within the class group forces the teacher, to search for

simply because the teacher is not sware of the various methods which will allow him to cut through these qualities ses of verbal interpersonal responses his is usiof "individualness" to discover areas of shared commonality. is he evers of the real, manufable effects of each of these A primary tool for directing this search may be found in component types upon bla abud the area of interpersonal communications. To understand This study attempts to use two specific interpersonal these students the teacher must achieve clear, open, and response techniques upon specific place groups of seventh congruent interpersonal communications with them. To grade students. It ottompts forther to measure the real achieve this kind of communication the teacher must be impact of these specific beautions upon those students. totally aware of the effects of his own communications upon The students total tudes as they relate to self his students. He must be able to both predict their impact and peers will be used on the year ole for measuring the and deliberately use them to achieve that predicted impact. affectiveness of these response techniques. Interpersonal communications at their most elemental level consist of both statement and response. The teacher can predict his own statement or response. He cannot predict his students! statement or response. He can, however, control buigh anothers autonomy by increasing his his own statements and responses and thereby channel the nes of subordinable direction of his students' statements and responses. fore, I believe, that one possibly significant method for Presse another's autonomy as a ner directing the search for areas of shared commonality lies in the teachers use of deliberate, aware, controlled interpersonal verbal responses.

#### B. The Problem and statements or questions.

A large part of what occurs in most classrooms revolves around verbal interpersonal communications between teacher and student. I believe that much of this interpersonal lies and the general learning environmen communication is ineffective or actually counterproductive

the teacher in direct response to specific

simply because the teacher is not aware of the various types of verbal interpersonal responses he is using, nor is he aware of the real, measurable effects of each of these response types upon his students.

This study attempts to use two specific interpersonal response techniques upon specific class groups of seventh grade students. It attempts further to measure the real impact of these specific techniques upon those students. The students' attitudes as they relate to self, school, and peers will be used as the vehicle for measuring the effectiveness of these response techniques.

#### C. Definitions of Terms

- I. Binding Responses responses which tend to diminish another's autonomy by increasing his sense of subordination.
- Freeing Responses responses which tend to increase another's autonomy as a person and increases his sense of equality.
- 3. Teacher Responses verbal responses made by the teacher in direct response to specific student statements or questions.
- 4. Teacher that person who is responsible for facilitating learning within the classroom; that person who is responsible for instruction, supplies and the general learning environment

of the classroom.

- 5. Interpersonal Responses direct verbal responses of the teacher to real stated questions or statements initiated by the student.
- 6. Students seventh grade students who are members of the researcher's three class groups used in the study.
- 7. Personal Attitude Scale a Likert-type attitude inventory, developed by the researcher to measure students personal attitude toward school, peers, and self.
- 8. Above Average Class a class group of students who all received individual objective recommendations from their sixth grade teacher indicating they had clearly demonstrated strong skills in both the math and language arts areas. (Group B "Binding" is designated an above average class.)
- 9. Average Class a class group of students who all received individual objective recommendations from their sixth grade teacher indicating they had clearly demonstrated average skills in both the math and language arts areas. (Group A "Freeing" is designated an average class.")
- 10. Below Average Class a class group of students
  who all received individual objective recommendations from their sixth grade teacher indicating

- they had clearly demonstrated weak skills in both the math and language arts areas. (Group C "Control" is designated a below average class.)
- 11. A Year-Round School a school system which operates twelve months of the year. (See appendix E.)
- 12. Likert-Type or Summated Rating Scale these contain a set of items, all of which are considered approximately equal in attitude or value loading. The subject responds with varying degrees of intensity on a scale ranging between extremes such as agree-disagree, like-dislike or accept-reject. The scores of the position responses for each of the separate scales are summed, or summed and averaged to yield an individual's attitude score.

## D. Hypothesis

- 1. Seventh grade students will score higher on a personal attitude scale when teacher responses to their verbal questions or statements are of one of the following types: "FREEING"
  - 1. Active attentive listening
    - 2. Paraphrasing
  - 3. Perception checking
    - 4. Seeking information to help understand
  - 5. Offering information relative to others concerns

- 6. Sharing information that has influenced their own feelings and viewpoints
- 7. Directly report their own feelings
  - 8. Offering new alternatives
- 2. Seventh grade students will score lower on a personal attitude scale when teacher responses to their verbal questions or statements are one of the following: "BINDING"
  - 1. Commands, orders, telling the students what to do
  - 2. Denial of the students feelings
    - 3. Disapproval on personal grounds
  - 4. Approval on personal grounds
    - 5. Changing the subject without explanation
  - 6. Vigorous advice and persuasion
    - 7. Vigorous agreement
- 3. Seventh grade students! score on a personal attitude scale will show no significant change when teacher responses to their verbal questions or statements consist of an intermixture of the types stated in hypothesis 1 and 2.
- E. Some Limitations of the Study
- 1. The researcher was personally involved in the research situation.
- 2. Only fifteen school days were available for the
  - 3. The year-round school aspect of the setting (see appendix E.)
  - 4. It is possible that the pre-test served as a

learning experience for the students involved in the study.

5. Each of the three groups was at a different chronological point in the second semester of their seventh grade year at the time of the treatment. On the first day of treatment Group "A" was beginning its fourth week of school in the nine week sequence. On the first day of treatment Group "B" was beginning its seventh week of school in the nine week sequence. On the first day of treatment Group "C" was beginning its first week of school in the nine week sequence.

## F. The Experimental Setting

This research took place in a junior high school in St. Charles County, Mo. St. Charles County is a rapidly growing residential community. It serves the housing needs of many individuals who are employed elsewhere in the greater St. Louis metropolitan area. The majority of residents are middle-class caucasion, suburban families.

At the time of the research the junior high school had an enrollment of 1137, of this number 591 were seventh grade students. (See appendix E.F.)

## G. Subject Definition

All of the students used as subjects in this research

were members of one of the researcher's seventh grade classes. All groups were at some different chronological point in the second semester of the seventh grade during the testing and treatment periods of the study. This chronological point varied by as much as six weeks due to the year-round concept of the school district. (See appendix E.) In all a total of 68 students were used; of this number 49 were male and 19 female. The students' individual scores from the Stanford Achievement test, 1973 edition, Form "A" Battery Class List, administered in October, 1976 were used to define individual grade level achievement and class group grade level achievement. All of this information may be found, by group, in the appropriate appendix.

TABLE I
COMPARISON OF INDIVIDUAL STANFORD

ACHIEVEMENT TEST SCO	RES BY	GROUP
----------------------	--------	-------

Group A	Group B	Group C
"Freeing"	"Binding"	"Control"
Mean-6.88	Mean-7.96	Mean-4.46
M-Male	M-Male	M-Male
F-Female	F-Female	F-Female
M-4.1	M-5.5	M-3.0
F-5.5	M-5.7	M-3.0
M-5.6	M-5.8	M-3.7
F-5.8	M-5.9	
M-5.9	M-6.0	M-3.9
M-6.1	M-6.1	F-4.0
F-6.1	M-6.3	F-4.0
M-6.2	F-6.4	F-4.1
M-6.3	F-6.8	F-4.2
M-7.0	F-6.9	F-4.3
F-7.3	F-7.0	M-4.3
M-7.3		M-4.7
M-7.4	M-7.2	M-4.4
	M-7.3	M-5.0
M-8.0	M-7.6	M-5.0
	M-7.6	F-5.1
M-8.5	M-7.7	F-5.1
F-8.6		M-5.2
M-9.3	F-8.8	M-5.2
argo scale study In		M-5.2
	M-9.2	M-5.2
tudents from 5 (int.		M-5.4
	M-9.7	
communication style	M-9.8	and to the smou
	F-9.8	
alf-initiated work	F-11.1	2 to do 71
	M-12.4	
Tyler, in the -	M-12 Q	the most Ideal
	M-TS.0	
tudent relationship.		Description of

their Public. Phurnel of Experimental Musetion, 1858

#### REVIEW OF THE LITERATURE

## A. Introduction

The review of the literature has been divided into two parts: (1) the role of the teacher: (2) verbal response types and their characteristics.

## B. Role of the Teacher

There has been a good deal of research and writing done which concerns itself with the role of the teacher. Through a review of this literature one finds that a consensus of opinion is developed concerning the undeniably important role of the teacher as "communicator." As early as the 1940's, specifically 1947, in his analysis of the personality traits of the effective teacher Witty pointed out the central importance of how a teacher communicated what he knew. In 1958 in a large scale study involving 33 teacher and approximately 1000 students from 5 junior high school Cogan found that "Teacher communication style and warmth are related to the amount of self-initiated work students are willing to do."1

Tyler, in the early 1960's, found the most ideal teacherstudent relationship was characterized by "positive communication

M. Cogan, "Behaviors of Teachers and the Behavior of their Pupils," <u>Journal of Experimental Education</u>, 1958, 27, p. 89-124.

factors, a peer relationship status, and emotional closeness."

He further determined that "the least ideal relationship was characterized by lack of communication autocratic teaching behaviors and emotional distance."

Stern's review of the literature, in 1963, (34 Studies) suggested six attitudes of the effective teacher, one of these was "the use of a conversational manner in teaching-and informal, easy style of communicating."

In 1969 after a review of the literature on characteristics of good teachers Hamachek stated "what seems to make a difference is the teachers personal style in communicating what he knows (as opposed to simply how much he knows."

Finally, in his book Teacher and Child,

Dr. Hsim Ginott, a noted child psychologist, asks the following question:

where do we start if we are to improve life in the classroom?

By examining how we respond to have children. How a teacher communicated is of decisive importance.

It effects a childs life for good or bad. 5

L. Tyler, "The Concept of an Ideal Teacher Student
Relationship," Journal of Educational Research,
1964, 58, p. 112-117.

G. Stern, Handbook of Research on Teaching, (Chicago: Rand McNally, 1963.)

D. Hamachek, "Characteristics of Good Teachers and Implications for Teacher Education," Phi Delta Kappan, 1969, 50, p. 341-344.

H. Ginott, Teacher and Child, (New York: Avon, 1972), p. 69.

## C. Verbal Response Types and Their Characteristics

What is communication? The term COMMUNICATION, in a narrow sense, may be defined as any method by which meanings are exchanged between individuals. Many different methods can be employed to facilitate this exchange at the personal level. Verbal, graphic, physical and symbolic methods are available. Each can be effective. For the purpose of this study, however, only the verbal method was considered. At its most basic level the verbal exchange form of communicating may be broken down or separated into two distinct acts; the act of initiation and the act of response. Only the response half of this communications form is being researched here.

This study began with and is largely based upon the assumption that students have a deeper interest in and committment to teacher responses to questions they themselves initiated, than they have to teacher initiated questions or statements. Ginott in his book <u>Teacher and Child</u> indicates that the kind of communication taking place within the classroom, especially that taking place between teacher and student, can determine the effectiveness of that classroom as a learning environment. He divides all verbal responses into two types. They are "acceptance responses" and "rejection responses." He further states that

Usually we (teachers) are not overly concerned whether our responses convey acceptance or rejection. Yet to a

child this difference is fateful, if not fatal. Teachers who want to improve relations with students need to unlearn their habitual language of rejection and acquire a new language of acceptance.

Mager states that "at the most basic level there are only two types of verbal responses, moving away from or avoidance responses which express negative attitudes, and, moving toward or contact responses which express positive attitudes."

Dr. William Glasser writes of a need for communication which expresses involvement whose qualities include congruity, warmth and positive "involvement" as opposed to one of "uninvolvement" whose qualities include aloofness, coldness, force, threat and shame. "Teachers and therapists too often stand aloof from children; they do not get emotionally involved; they are not warm, personal and interested; they do not reveal themselves. As a result they do not communicate."

Wellen divides responses into two types based upon what he sees as their interpersonal effects. The first type he

<sup>6</sup> H. Ginott, Teacher and Child, (New York: Avon, 1972), p. 69-99.

<sup>7</sup> R. Mager, <u>Developing Attitudes Toward Learning</u>, (Palo Alto: Fearon, 1968).

<sup>8</sup> W. Glasser, Schools Without Failure, (New York: Harper, 1969).

refers to as "Freeing" and states that it "increases other's autonomy and increases their sense of equality." The second type he refers to as "Binding-Cueing" and states that this type "diminishes other's autonomy by increasing senses of subordination."

This specific research study is concerned with two verbal response types and their potential for promoting growth, stagnation or regression within the attitudinal framework of the individual. These two types of verbal response are called "Freeing" and "Binding" responses. Characteristics of "Freeing" response types are:

- 1. Active attentive listening
- 2. Paraphrasing
- 3. Perception checking
- 4. Seeking information to help understand
- 5. Offering information relative to other concerns
- 6. Sharing information
- 7. Directly reporting feelings
  - 8. Offering new alternatives

## Characteristics of "Binding" response types are:

- 1. Commands, orders
- 2. Denial of others feelings
  - 3. Disapproval on personal grounds
- 4. Approval on personal grounds
  - 5. Changing the subject
- 6. Vigorous advice and persuasion
  - 7. Vigorous agreement

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A great deal of research and writing has been done in recent years which pertains to similar divisions of response

J. Wellen, The Interpersonal Effects of Various Responses, (Portland, Oregon: N. W. Regional Laboratories, 1965).

In terms of the research study, the two types "Freeing" and "Binding" are also viewed as having positive and negative connotations. The "Freeing" responses are viewed as being positive and having the potential for developing autonomy, self-esteem and positive attitudinal shifts. The "Binding" responses are viewed as being negative and having the potential for the development of dependence, reliance and negative attitudinal shifts.

A high degree of correlation between Dr. Gordon's two response types and the two response types used in the study may be noted. This correlation is especially striking when the study type "Binding" and the Gordon type "Roadblock" are compared. Each of these types represent a negative, authoritarian, limiting and devaluing kind of communications. Each of them require that an individual be in an inferior position when compared with another. Each involves judging, measuring and manipulating of one by another. Each ultimately involves the development of a dependence-reliance relationship. Neither, in any way promote growth, self esteem or an increased sense of autonomy.

A high degree of correlation may be noted, as well, between the predicted effects of the response types within the research study and the effects predicted by Dr. Gordon for his response types. Both predict that the positive ("Freeing"-"Facilitating") types of response will promote positive attitudinal shifts.

Both predict that the negative ("Binding"-"Roadblock") type

of response will result in limiting growth and in negative attitudinal shifts. It would appear that, in this particular area, Dr. Gordon's research supports the hypothesis of this study.

Charles B. Truax, researcher and psychotherapist, has
done extensive research into questions involving communication
techniques and their effects upon therapist-client interpersonal
relationships. While this research does not dovetail completely
with the subject of this research paper, it does suggest interesting relationships and parallels. Through early research,
Truax isolated what he calls the "Central Therapudic Ingredients"
present in all effective therapudic relationships. He states
that these ingredients are prerequisite qualities of the
effective therapist. He further states that successful
therapy cannot take place where these qualities are not present
within the character of the therapist. He identifies and defines these "Ingredients" as:

- 1. Accurate Empathy, the ability to "be with",
  "grasp the meaning of," or to accurately and
  emphathically understand the client on a
  moment to moment basis.
- 2. Unconditional Positive Regard, the ability to provide a non-threatening, safe, trusting or secure atmosphere by his acceptance, love, or nonpossesive warmth.
  - 3. Self-Congruence, that the therapist be integrated, non defensive and authentic or genuine in his therapudic encounters.

How he communicates may be more important then what he communi-

According to Truax, each of these ingredients represents a

therapudic pre-condition and their absence precludes the possibility of effective therapy.

If one sccepts, even partially, the idea that the teacherstudent relationship is a quasi-therapudic one then Truax's

"Central Therapudic Ingredients" become clearly applicable
to this study. Each of these three ingredients correlate
well with the "Freeing" type of response used in the study
and with the "Facilitating" responses of Dr. Gordon's work.

The absence of all three of the ingredients correlates well
with the "Binding" response types used in the study and with
the "Roadblock" response types of Dr. Gordon's work. The
presence of these qualities necessitates the use of responses
which have the characteristics of the "Freeing" and "Facilitating"
types. The absence of these qualities necessitates the use of
responses which have the characteristics of the "Binding" and
"Roadblock" types. It would appear then, that in this particular
area, Truax's research supports the hypothesis of this study.

## D. Summary

A review of the literature led to the following conclusions.

## Role of the Teacher

Communication is a prime tool of the effective teacher.

How he communicates may be more important than what he communicates. His personal style of communication should be open,

warm, involved, non-threstening and accepting. His communication can have positive or negative effects. His communication can increase his students sense of autonomy or their sense of subordination.

## Verbal Response Types and Their Characteristics

There exist two basic types of interpersonal responses.

These types may be termed positive and negative or productive and non-productive. The identifying characteristics of these two types of interpersonal verbal responses as indicated by the review of the literature are presented below in table form.

Positive		Negative		
Pro	ductive	Nor	-Productive	
1.	Acceptance	1.	Rejection	
2.	Contact	2.	Avoidance	
3.	Acceptance	3.	Unacceptance	
4.	Involvement	4.	Uninvolvement	
5.	Freeing	5.	Binding-Cueing	
6.	Constructive	6.	Deteriorative	

#### DESCRIPTION PROCEDURE AND DATA COLLECTION

## A. Introduction alabova suspens. Group G goalthou was drawn

by a homogeniously grouped place rated below aver A review of the available literature leads this researcher to the conclusion that the literature does indeed seem to support the hypothesis of this study. Briefly restated these hypothesis are: (1) positive, "Freeing" kinds of responses will cause a significant improvement in the subjects score on the attitude inventory. (2) Conversely, negstive or "Binding" kinds of randomized Control-Group bretast-posttest design extens responses will cause a significant deterioration in the subjects score on the same attitude inventory. (3) Seventh grade students! score on a personal attitude scale will show no significant or summated Reliant Scale statistics inventory was developed by change when teacher responses to their verbal questions consist of an even intermixture of the types stated in hypothesis l and 2. Using the information gleaned from the review of the literature the researcher developed the various procedures he study largived the u designed to acquire the information needed to test these each receiving a specific type of treatments hypothesis.

## B. Selection of Subjects to this group.

The researcher's own seventh grade classes were used in the study. Six classes were available. Four class groups were needed for the study. Three classes were selected and assigned their role positions within the study by drawing their assignments from a hat. The three positions assigned were Group A

Group & "FREELING"

"FREEING," Group B "BINDING," and Group C "CONTROL." The Group A position was drawn by a homogeniously grouped class rated average. Group B position was drawn by a homogeniously grouped class rated above average. Group C position was drawn by a homogeniously grouped class rated below average. The fourth group, not picked in the drawing, was used to pre-test the Likert-type attitude inventory.

## C. Methods of Study

The action research method was used for the study. The randomized Control-Group pretest-posttest design extended to the study of two independent variables, "FREEING" and "BINDING" interpersonal responses, was used. A Likert-type or summated Rating Scale attitude inventory was developed by the researcher. (See Appendix A)

## D. Treatment

The study involved the use of three separate groups each receiving a specific type of treatment.

Group A "FREEING"

Hypothesis No. 1 applies to this group.

- 1. Seventh grade students will score higher on a personal attitude scale when teacher responses to their verbal questions or statements are of one of the following types: "FREEING"
- Active attentive listening

2. Paraphrasing

3. Perception checking

4. Seeking information to help understand

Offering information relative to others concerns
 Sharing information that has influenced their own

feelings and viewpoints.

7. Directly report their own feelings

8. Offering new alternatives.

Fifteen class days were used for the treatment of the study.

As far as was humanly possible, during this time, all teacher initiated input was group directed and of a sharing or exploratory nature. All other communication was student initiated.

Teacher response or reaction to these student initiated questions or statements were of the types listed in hypothesis No. 1.

## Group B "BINDING"

Hypothesis No. 2 applies to this group.

2. Seventh grade students! will score lower on a personal attitude scale when teacher responses to their verbal questions or statements are one of the following:

#### "BINDING"

1. Commands, orders, telling the students what to do

2. Denial of the students feelings

3. Disapproval on personal grounds
4. Approval on personal grounds

5. Changing the subject without explanation

6. Vigorous advice and persuasion

7. Vigorous agreement

Fifteen class days were used for the treatment period of the study. As far as was humanly possible, during this time, all teacher initiated input was group directed and of a commanding, ordering nature. All other communication was student initiated.

Teacher responses or reactions to these student initiated questions or statements were of the types listed in hypothesis No. 2.

## Group C "CONTROL"

Hypothesis No. 3 applies to this group.

3. Seventh grade students' score on a personal attitude
scale will show no significant change when teacher
responses to their verbal questions or statements
consist of an intermixture of the types stated in
hypothesis 1 and 2.

Fifteen class days were used for the treatment period of the study. As far as was humanly possible, during this time, all teacher initiated input was group directed and of an intermixture of a freeing or controlling nature. All other communication was student initiated. Teacher responses or reactions to these student initiated questions or statements consisted of an intermixture of the types listed in hypothesis No. 1 and 2.

## E. Data Collection

Two basic types of data were collected during this study.

A Likert-type or summated Rating Scale attitude inventory developed by the researcher served as the pretest-posttest vehicle for data collection. The second type of data collected consisted of a log kept of the researcher's observations in each group setting. All instances of observable behavior change, criticism, reaction, praise etc. were recorded. Subjects were

pretested March 27, 1977 and posttested April 18, 1977.

## F. Instruments Used

The Stanford Achievement Test, 1973 edition, Form (A)

Battery Class List, administered in October, 1976 was used

to define individual grade level achievement and class group

grade level achievement. A Likert-type or summated attitude

inventory developed by the researcher was used as a pre-test,

post-test.

## G. Treatment of the Data

Reproductions of the pre-test post-test may be found in the designated appendix. The individual Stanford Achievement. Test results both by individual and by group may be found in the designated appendix. Statistical treatment information pertaining to each of the above tests may be found in chapter 4.

TABLE II

Teacher Response Types By Groups

"Freeing"	"Control"		"Binding"	
Group A	Group C		Group B	
1. Active Listening		1.	Commands, Orders	
2. Paraphrasing	2 - 2 7 - 3	2.	Denial of Feelings	
3. Perception Checking		3.	Disapproval On Per-	
4. Seeking Information		11.6	sonal Grounds	
5. Offering Information	Intermixture	4.	Approval On Persona	
Relative to Others	of		Grounds	
Concerns	"Freeing" and "Binding"	5.	Changing The Subject	
6. Sharing Information That		6.	Vigorous Advice And	
Has Influenced Their Own		T A	Persuasion	
Feelings And Viewpoints		7.	Vigorous Agreement	
7. Directly Reporting Their		1		
Own Feelings				
8. Offering New Alternative		1 4		

#### Chapter IV

## PRESENTATION AND DISCUSSION OF DATA AND RESULTS

#### A. Hypothesis

# Research Hypothesis A

Ho: Seventh grade students' score on a personal attitude scale will not be significantly altered as a result of treatment by "Freeing" type responses.

entito prote - indenta i accretor a parcon

Ha: Seventh grade students will score higher on a personal attitude scale as a result of treatment by "Freeing" type responses.

#### Research Hypothesis B

Ho: Seventh grade students' score on a personal attitude scale will not be significantly altered as a result of treatment by "Binding" type responses.

Ha: Seventh grade students will score lower on a personal attitude scale as a result of treatment by "Binding" type responses.

## Research Hypothesis C

Ho: Seventh grade students' score on a personal attitude scale will not be significantly altered as a result of treatment by an even intermixture of "Freeing" and "Binding" types of responses.

Her Plan sublicty level, or massired by the Stanford

Ha: Seventh grade students' score on a personal attitude scale will be significantly altered as a result of treatment by an even intermixture of "Freeing" and "Binding" types of responses.

## B. Selection of the Instruments

The Stanford Achievement Test individual scores, by group, were used to discover whether on the basis of ability level as measured by the test the three groups were the same.

The Likert-type or Summated Rating scales Attitude Inventory was used to measure change which occurred as a result of the treatment portion of this study. The test was administered in both the pre-test and post-test forms.

The T-test (one and two-tailed) was used to measure change within the individual group as it related, directly, to the hypothesis appropriate to that group.

# C. Findings

## Stanford Achievement Test As A Measure Of Ability

A One-Way Analysis of Variance (ANØVA) and a Scheffe statistical test were done comparing the Stanford Achievement Test scores of the three groups to test the following hypothesis.

Ho: The ability level, as measured by the Stanford Achievement Test, is the same in all groups.

Ha: The ability level, as measured by the Stanford

Achievement Test, is not the same in all groups.

## Decision:

Reject the Ho since it exceeded the critical table value at the .05 level of significance.

### Conclusion:

There is a statistical difference between the groups in terms of ability level. Groups A and B compared are statistically of the same ability level as measured by the Stanford Achievement Test. Groups B and C compared are statistically of different ability levels as measured by the Stanford Achievement Test. Groups A and C compared are statistically of different ability levels as measured by the Stanford Achievement Test. Stanford Achievement Test.

## Likert-type Attitude Inventory (Pre-test)

A One-Way Analysis of Variance ANOVA) and a Scheffe statistical test were done comparing the Attitude Response scores of the three groups to test the following hypothesis.

Ho: The attitudes of the students, as measured by the attitudinal survey, are the same in all groups.

Ha: The attitudes of the students, as measured by the attitudinal survey, are not the same in all groups.

#### Decision:

Reject the Ho since it exceeded the critical table value at the .05 level of significance.

## Conclusion:

There is a statistical difference between the groups in terms of attitude as measured by the attitudinal survey.

Groups A and B compared are statistically the same in terms of attitude. Groups B and C compared are statistically the same in terms of attitude. Groups C and A compared are statistically different in terms of attitude.

## Likert-type Attitude Inventory (Post-test)

A One-Way Analysis of Variance (ANDVA) and a Scheffe statistical test were done comparing the Attitude Response scores of the three groups to test the following hypothesis.

Ho: The attitudes of the students, as measured by the attitudinal survey, are the same in all groups.

Ha: The attitudes of the students, as measured by the attitudinal survey, are not the same in all groups.

## Decision:

Reject the Ho since it exceeded the critical table value at the .05 level of significance.

#### Conclusion:

There is a statistical difference between the groups in terms of attitude as measured by the attitudinal survey. Groups A and B compared are statistically the same in terms of attitude. Groups B and C compared are statistically the same in terms of attitude. Groups C and A compared are statistically different in terms of attitude.

## The T-Test As A Measure Of Change Resulting From The Treatment

A T-Test (one or two-tailed) was done to determine the effect of the specific treatment on the individual group as it relates to the hypothesis postulated for that group.

#### Research Hypothesis A

# Decision:

Accept the Ho. The attitude scores provide data that accept the Ho at the .05 (one-tailed) level of confidence.

## Conclusion:

The difference detected in the pre and post scores is not statistically significant. Post attitude scores were not different (higher) in this group due to exposure to "Freeing" type responses.

## Research Hypothesis B a result the state to the done

#### Decision:

Reject the Ho. The attitude scores provide data that

reject the Ho at the .05 (one-tailed) level of confidence.

#### Conclusion:

The difference detected in the pre and post attitude scores is statistically significant. There was a loss in attitude scores on the posttest in this group due to exposure to "Binding" type responses.

## Research Hypothesis C

#### Decision:

Reject the Ho. The attitude scores provide data that reject the Ho. (two-tailed) level of confidence. (.05)

#### Conclusion:

The difference detected in the means of the pre and post attitude scores is statistically significant.

The attitudes of students on the pretest is different than that registered on the posttest.

## D. Interpretations

The information gained from the statistical test done comparing the Stanford Achievement Test scores of the groups indicates that the groups are, in fact, significantly different in terms of ability.

The information gained from the statistical tests done comparing the Attitude Inventory Pretest response scores of the groups indicates that the groups are, in fact, significantly

TABLE III
COMPARISON OF ATTITUDE

INVENTORY SCORES BY GROUP (PRETEST)

	INVENTORY SCORES	BY GROUP (PRETE	ST)
Statement	Group A	Group B	Group C
	Treatment	Treatment	Control
	"Freeing"	"Binding"	"Control
1.	54	62	51
2.	42	63	57
3.	65	98	67
4.	61	88	67
5.	60	74	55
6.	59	90	62
7.	52	67	57
8.	54	83	68
9.	63	90	69
10.	45	56	48
11.	39	56	38
12.	35	44	33
13.	67	91	68
14.	56	88	59
15.	41	59	40
16.	57	78	54
17.	50	66	52
18.	65	87	66
19.	48	69	53
20.	38	63	47
21.	48	81	57
22.	56	84	55
23.	52	68	47
24.	48	60	57
25.	46	55	55
26.	50	66	55

TABLE IV

### COMPARISON OF ATTITUDE

INVENTORY SCORES BY GROUP (POSTTEST)

Statement	Group A	Group B	Group C
	Treatment	Treatment	Control
	"Freeing"	"Binding"	"Control"
1. The Lates	50	58	43
2.	45	53	57
3.	69	87	58
4.	56	83	56
5. A Property	60	58	55
6.	55	75	53
7.	43	63	46
8.	57	68	54
9.	60	85	58
10.	41	54	36
11.	34	50	43
12.	33	46	38
13.	59	94	68
14.	52	76	50
15.	40	50	43
16.	54	70	51
17.	49	66	51
18.	61	95	61
19.	48	70	54
20.	34	57	41
21.	46	58	46
22.	57	82	62
23.	43	66	35
24.	48	58	44
25.	43	57	N 2222
26.	53	64	56

secres of mean A "Freeing" indicases no asstictionally sig-

The Information getted from the statistical tests done

community the west that I recently overpoone Bratent to Postinal

secret of Brown in "Blading" indicators whattables by signific-

owns effect.

different in terms of attitude at the pretest level.

The information gained from the statistical tests done comparing the Attitude Inventory Posttest response scores of the groups indicates that the groups are, in fact, significantly different in terms of attitude at the posttest level.

The information gained from the statistical tests done comparing the attitude inventory response scores of Groups

B and A Pretest to Groups B and A Posttest indicates no statistically significant shift in attitude.

The information gained from the statistical tests done comparing the attitude inventory response scores of Groups C and A Pretest to Groups C and A Posttest indicates no statistically significant shift in attitude.

The information gained from the statistical tests done comparing the attitude inventory response scores of Groups B and C Pretest to Groups B and C Posttest indicates no statistically significant shift in attitude.

The information gained from the statistical tests done comparing the attitude inventory response Pretest to Posttest scores of Group A "Freeing" indicates no statistically significant effect.

The information gained from the statistical tests done comparing the attitude inventory response Pretest to Posttest scores of Group B "Binding" indicates a statistically significant effect.

35

The information gained from the statistical tests done comparing the attitude inventory response Pretest to Posttest scores of Group B "Control" indicates a statistically significant change.

#### E. Summary

This chapter dealt with the data in its statistical form.

This statistical information allowed me to reach conclusions pertaining to the intellectual and attitudinal composition of the three groups. Comparisons were made, within groups and between groups, at the pre-treatment level and at the Post-treatment level.

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Seventh grade students score on a personal

stations and will show no significant change

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#### Chapter V

#### SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

#### A. Summary in the study. They seem already solving on the

A study was undertaken to determine the effects upon students of particular types of interpersonal verbal responses. These verbal response types were called "Freeing" and "Binding" (See table two for characteristics of "Freeing" and "Binding") and the following hypothesis were stated in relation to each of them.

#### Hypothesis A

Seventh grade students will score higher on
a personal attitude scale when teacher responses
to their verbal questions or statements are of
a "Freeing" type.

#### Hypothesis B

to their verbal questions or statements are of
a "Binding" type.

#### Hypothesis C

Seventh grade students score on a personal attitude scale will show no significant change when teacher responses to their verbal questions or statements consist of an intermixture of "Freeing" and "Binding" types.

Hypothesis C relates to the third group in the study called the "Control" group.

Three class groups of seventh grade students were chosen to take part in the study. They were chosen solely on the basis of availability. The three groups were assigned their roles by the luck of the draw.

A Likert-type attitude inventory was developed by the researcher to be used as both a pre-treatment and a post-treatment test. Statistical information in the form of Stanford Achievement Test scores for each individual in each group were acquired.

Pressures of the existing school situation limited the treatment period of the study to 15 school days. The subjects were pretested on March 27th and posttested April 18th.

Data collected from the Stanford Achievement Test as well as from the attitude inventory pretest-posttest was statistically treated to arrive at conclusions pertaining to the three hypothesis postulated.

#### B. Conclusion

#### Hypothesis A

Seventh grade students will score higher on a personal attitude scale when teacher responses to their verbal questions or statements are of a "Freeing" type.

#### Decision:

Reject the hypothesis since there has been no statistically

significant effect at the .05 level of significance.

#### Conclusion:

The "Freeing" treatment did not have the effect predicted for it.

# Hypothesis B

Seventh grade students will score lower on

a personal attitude scale when teacher responses
to their verbal questions or statements are of

a "Binding" type.

## Decision:

Accept the hypothesis since there has been a statistically significant effect at the .05 level of significance.

## Conclusion:

The "Binding" treatment had the effect predicted by the hypothesis.

#### Hypothesis C

Seventh grade students'score on a personal attitude scale will show no significant change when teacher responses to their verbal questions or statements consist of an intermixture of "Freeing" and "Binding" types.

## Decision:

Reject the hypothesis since there has been no statistically significant effect at the .05 level of significance.

## Conclusion:

The intermingling of the "Freeing" and "Binding" treatments

#### C. Recommendations and Personal Conclusions

#### Recommendations

I was unable to locate a single research study which concerned itself with this particular subject matter. I believe that this study could and should be attempted again, with the following modifications:

- 1. A more careful selection of the groups.
- 2. A more comprehensive attitude inventory.
- 3. A longer "treatment" period.
- 4. In-classroom observers.
- 5. The researcher should not be the active classroom teacher.
  - 6. Sub-catagorization of the attitude inventory.

#### Personal Conclusions

A peripheral concern surfaced during the early stages of this study. This concern involved the composition of the three groups in terms of academic ability. Supposedly each group is a homogenious class composed of individuals with similar academic skill levels. (See p.4) (See table 1)

In reality, however, the Stanford Achievement Test results indicate that the range of skill levels within a group is vast. They further indicate that students with a very similar academic skill levels can be found within each of the three

## TABLE V

# A COMPARISON OF STANFORD ACHIEVEMENT TEST SCORES AND CLASS PLACEMENT

Group B "Binding"	Group A "Freeing"	Group C "Control"
Above-Average (see p.4)	Average (see p.4)	Below-Average (see p.4)
S.A.T. Range 5.5-12.8 (see table 1)	S.A.T. Range 4.1-9.3 (see table 1)	3.0-5.4
17 (of 28) below 7.9	14 (of 19) below 7.9	Shiftin Line
28 Students		22 Students
Mean 7.96	Mean 6.88	Mean 4.46
75% (21 of 28) of this group scored in the same abil- ity range as 93% (13 of 14) of those placed in the average group	this group scored in a lower ability	ntudents
tions and from these many. Pully neventy- in antirely interches everage group in ter-	this group scored in the same ability range as 75% (21 of	oove average group
higher in ability range than any mem- ber of the average	rant. Grouping by at in this situation, ex it the distancem teach a guide to the level	er who ness these
	hat impast dues an in	64% (14 of 22) of this group scored in a higher ability range

classifications, above-average, average and below-average.

The following observations can be made, based upon the

Stanford Achievement test results:

- 1. Sixty-one percent of those students in the above average group scored lower than the national average for their age group.
- Seventy-four percent of those students in the average group scored lower than the national average for their age group.
- 3. Seventy-five percent of those students in the above average group scored within the same range as ninety three percent of those in the average group.
- 4. Ninety-three percent of those students in the average group scored within the same range as seventy five percent of the above average group.
- 5. Only twenty\_five percent of those students in the above average group scored in a higher ability range than any member of the average group.

The conclusions which may be drawn from these observations and from those observations outlined in table 5 are many. Fully seventy-five percent of the above average group is entirely interchangeable with ninety-five percent of the average group in terms of academic ability as measured by the Stanford Achievement Test. Grouping by academic ability does not, in fact, exist in this situation, except possibly in the mind and curriculum of the classroom teacher who uses these group designations as a guide to the level of work quality and personal expectations. What impact does an incorrect group skill level designation have upon the individual students within that group? What impact does an incorrect group skill level designation have upon the teacher?

APPROVIN

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E. Brass & Information.

APPENDIX

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H. Year-Hound salesol concept.

F. Experimental matting information.

U. Bel-Croup Davagori antica Comparings

#### APPENDIX

- A. Copies of the Likert-Type Attitude
  Inventory Pre-Test and Post-Test.
- B. Group A information.
- C. Group B information.
- D. Group C information.
  - E. Year-Round school concept.
  - F. Experimental setting information.
- G. Sub-Group Categorization Comparisons

type statute important used in this study. It supstate of there statements are sometime of the same statements are sometime of the same statements are sometimely part of the same statements are

This is a quastionnaire which make you to express your orinion on a variety of traits. It is, in fact, an opinionnaire not a quastionnaire. The opinion you express shout each statement should be your orn opinion and no one class. Finess try to be at accurate as possible.

### APPENDIX A

You may see one of four possible opinions in reaction to each atchement. After such atchement you will find four separate initials or sats of initials. Those initials or sats of initials or sats of initials.

- h. Dan. Ineve intuining mean I strongly syres
  - 2. A. This initial means I agree with this
  - 2. D. This initial means that I disagree with
    - 4. 5.D. These initials mean that I strongly disagree with this avalement.

After reading such statement, please sirele that initial or set of initials which most scourstely expresses your opinion concerning that statement. Please sirele only one snawer for The following is an exact reproduction of the Likerttype attitude inventory used in this study. It consists of thirty eight statements. Twenty six of these statements are actually part of the eventual pretest posttest comparison.

This is not a test. There are no right or wrong answers. This is a questionnaire which asks you to express your opinion on a variety of topics. It is, in fact, an opinionnaire not a questionnaire. The opinion you express about each statement should be your own opinion and no one elses. Please try to be as accurate as possible.

INSTRUCTIONS FOR COMPLETING THIS OPINIONNAIRE

You may express one of four possible opinions in reaction
to each statement. After each statement you will find four
separate initials or sets of initials. Those initials or
sets of initials have the following meanings.

- 1. S.A. These initials mean I strongly agree with this statement.
- 2. A. This initial means I agree with this statement.
- 3. D. This initial means that I disagree with this statement.
  - 4. S.D. These initials mean that I strongly disagree with this statement.

After reading each statement, please circle that initial or set of initials which most accurately expresses your opinion concerning that statement. Please circle only one answer for

	Coirly,	E-A-			NA DA
1.	Most school rules make sense to me.	S.A.	Α.	D.	S.D.
18.	Ematines occuling is	8-4-	AT THE		8.2
2.	My class is a hard working group.	S.A.	Α.	D•	S.D.
3.	Teachers are too "Bossy."	S.A.	Α.	D.	S.D.
	Low grades make me sad.	S.A.	Α.	D.	S.D.
5.	Students who misbehave deserve to be punished.	S.A.	Α.	D.	S.D.
6.	A lot of my class work is too easy.				S.D.
7.	It is not the schools fault when kids misbehave.	S.A.	Α.	D.	S.D.
8.	If you do not learn you should not pass.	S.A.	Α.	D.	S.D.
9.	I am sometimes lonely at school.	S.A.	Α.	D.	S.D.
10.	It makes my parents unhappy when I get low grades.	S.A.	Α	D.	S.D.

11.	Our Principal treats us all fairly.	S.A.	Α.	D.	S.D.
12.	Sometimes cheating is necessary.	S.A.	Α.	D•	S.D.
13.	Most students in my group not not work as hard as they should.				S.D.
14.	My parents always read my report cards.	S.A.			S.D.
15.	Teachers are willing to help.				S.D.
16.	Going to school is a good way to become a better person.	S.A.	Α.	D.	S.D.
17.	Many people do not like me.	S.A.	Α.	D.	S.D.
18.	My friends think school is a waste of time.	S.A.	Α.	D.	S.D.
19.	Teachers expect us to learn too much.	S.A.	Α.	D.	S.D.
20.	A lot of our school work is boring.	S.A.	Α.	D.	S.D.
	not understand their corts	1.	À.	A.	Dr. BrDr

21.	I always try to do my best in class.	S.A.	Α.	D. 1	S.D.
22.	People ignore my opinions.	S.A.			
23.	School is not as important as most people think.	S.A.	Α.		
24.	Many times teachers will not listen.	S.A.	A. A.	D.	S.D.
25.	It is not my fault if I get into trouble at school.	s.A.	Α.	D.	S.D.
26.	Most class assignments are too difficult.	S.A.		D.	S.D.
27.	Learning is important to me.	S.A.	Α.	D.	S.D.
28.	Counselors are not very helpful.	S.A.			S.D.
	Most students do not take bad progress reports home.	S.A.	Α.	D.	S.D.
30.	My friends chest whenever they feel like it.	S.A.	Α.	D.	S.D.
31.	It is seldom the teachers fault when the students do not understand their work.	S.A.			

32.	I don't enjoy helping other students with their work.		Α.		S.D.
33.	Kids who do not do their work should be punished.	S.A.	Α.	D.	S.D.
	I believe in obeying all school rules.				
	I like most people.				S.D.
36.	Most of our school rules should be changed.	Q A	Λ.	D	SD
37.	Teachers try to help everyone.	S.A.	Α.	D.	S.D.
38.	You can't always count on other students for help.	S.A.	A. OPIN	D.	S.D.

Thank you very much for your help.

separate initials or sets of initials. These initials or sets

1. S.A. These initials neen I strongly agree with this

2. A. This initial means I agree with this statement.

5. D. This initial means I disagree with this statement.

4. S.D. These initials mean that I strongly disagree with this statement.

#### The Attitude Inventory Posttest

The following is an exact reproduction of the Likerttype attitude inventory posttest used in this study. It
consists of 26 statements. These 26 statements in correct
numerical sequence correspond with 26 statements on the
pretest in the following numerical sequence. 1, 2, 3, 5, 7,
8, 12, 15, 16, 18, 19, 20, 21, 23, 24, 25, 26, 27, 28, 30, 31,
32, 33, 34, 36, 37.

This is not a test. There are no right or wrong answers. This is a questionnaire which asks you to express your opinion on a variety of topics. It is, in fact, an opinionnaire not a questionnaire. The opinion you express about each statement should be your own opinion and no one elses. Please try to be as accurate as possible.

#### INSTRUCTIONS FOR COMPLETING THIS OPINIONNAIRE

You may express one of four possible opinions in reaction to each statement. After each statement you will find four separate initials or sets of initials. Those initials or sets of initials have the following meanings.

- 1. S.A. These initials mean I strongly agree with this statement.
- 2. A. This initial means I agree with this statement.
- 3. D. This initial means I disagree with this statement.
- 4. S.D. These initials mean that I strongly disagree with this statement.

After reading each statement, please circle that initial or set of initials which most accurately expresses your opinion concerning that statement. Please circle only one answer for each statement.

1.2	Most school rules make sense to me.	S.A.	Α.	D.	S.D.
2.	My class is a hard working group.	S.A.	Α.	D.	S.D.
3.	Teachers are too "Bossy."	S.A.	Α.	D.	S.D.
4.	Students who misbehave deserve to be punished.	S.A.	Α.	D.	S.D.
5.	It is not the schools fault when kids misbehave.	S.A.	Α.	D.	S.D.
6.		S.A.	Α.	D.	S.D.
7.		S.A.	Α.	D.	S.D.
8.	Teachers are willing to help.	S.A.	Α.	D.	S.D.
9.		S.A.	Α.	D•	S.D.

10.	My friends think school is a waste of time.	S.A.	Α.	D.	S.D.
11.	Teachers expect us to learn too much.	S.A.	Α.	D•	S.D.
12.		S.A.	Λ.	D	S.D.
13.	work is boring.	D.A.	Α.	D.	3.0.
13.	I always try to do my best in class.	S.A.	Α.	D.	S.D.
	school rules.		A-	1	B./ D.
14.	School is not as important as most people think.	S.A.	Α.	D.	S.D.
25.	Ross of our school rules should be sheared.	D.A.		De	Sa Da
15.	Many times teachers will not listen.	S.A.	Α.	D.	S.D.
16.	It is not my fault if I get into trouble at school.	S.A.	Α.	D.	S.D.
17.	Most class assignments are too difficult.	S.A.	Α.	D.	S.D.
18.	Learning is important to me.	S.A.	Α.	D.	S.D.
19.	Counselors are not very helpful.	S.A.	Α.	D.	S.D.
20.	My friends cheat whenever they feel like it.	S.A.	Α.	D.	S.D.

27	It is seldom the teachers				A
21.	fault when the students do not understand their work.	S.A.	Α.	D.	S.D.
22.	I don't enjoy helping other students with their work.	S.A.	Α.	D•	S.D.
23.	Kids who do not do their work should be punished.	S.A.	Α.	D.	S.D.
24.	I believe in obeying all school rules.	S.A.	Α.	D.	S.D.
25.	Most of our school rules should be changed.	S.A.	Α.	D.	S.D.
26.	Teachers try to help everyone.	S.A.	Α.	D.	S.D.

Thank you very much for your help.

Average Class

19 Students

13 Male Students

5 Penale Students

7th Grade

This wless is in its 4th, 5th, and 5th swell of their 2 week sequence

Stanford Achievement Test Depres (Individuelly) Test siministered Detabar, 1976

Stodents were so the 7th grade second nonth

#### APPENDIX B

Class range of best results 6.1 -- 5 5

Endividual test results.

Average Cl	23	S
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19 Students

13 Male Students

6 Female Students

7th Grade

Male - 7.0

This class is in its 4th, 5th, and 6th week of their 9 week sequence

Stanford Achievement Test Scores (Individually)

Test administered October, 1976

Students were at the 7th grade second month at the time of the test

Class range of test results 4.1--9.3

Individual test results.

Male -	4.1	Fema le	- 7.3
Fema le	- 5.5	Male -	7.3
Male -	5.6	Male -	7.4
Female	- 5.8	Fema le	- 7.7
Male -	5.9	Male -	8.0
Male -	6.1	Male -	8.2
Female	- 6.1	Male -	8.5
Male -	6.2	Female	- 8.6
Male -	6.3	Male -	9.3

#### GROUP A

# COMPARISON OF SCORED GROUP RESPONSES ON THE ATTITUDE INVENTORY

There are a total of 19 students in this group. The maximum response by each student for each statement equals 4 points. 19 students multiplied by 4 points equals a maximum group response on each statement of 76 points.

maximum 81 oab		•
Statement	Pre-test Responses	Post-test Responses
1.	54	50
2.	42	45
3.	65	69
4.	61	56
5.	60	60
6.	59	55
7.	52	43
8.	54	57
9.	63	60
10.	45	41
11.	39	34
12.	35	33
13.	67	59
14.	56	40
15.	41	40
16.	57	54
17.	50	49
18.	65	61
19.	48	48

		De
20.	38	34
21.	48	46
22.	56	57
23.	52	43
24.	48	48
25.	46	43
26.	50	53

E 27.3

16.	

#### GROUP A

#### COMPARISON OF SCORED GROUP RESPONSES OF THE ATTITUDE INVENTORY THREE ATTITUDINAL CATEGORIES

Maximum group response total possible is 76 points.

#### EDUCATION

Statement	Pre-test	Post-test
Statement	54	50
2.	42	45
10.5.	60	60
6.	59	55
8.	54	57
9.	63	60
11.	39	34
15.	41	40
19.	48	48
21.	48	46
26.	50	53

#### SELF

Statement	Pre-test	Post-test
3.	65	69
7.	52	43
12.	35	33
13.	67	59
14.	56	52
16.	57	54

17.	50	49
18.	65	61
22.	56	57
24.	48	48
25.	46	43

#### PEERS

2

Statement	Pre-test	Post-test
4.	61	56
10.	45	41
20.	38	34
23.	52	43

APPENDIX C

# DROUP B STATISTICAL INVESTATION

Ol-trale Stredenba

T Penale Students

The Oracle

This cless is in its 7th, 5th, and 9th week of their week acquemes

Summard Achievament Test Scores (Individually)

Test administance outsour, 1976

Structure were at the 7th armie second month.

Class cange of twee condite 5.5 -- 12.8

## APPENDIX C

	mula - V-V
Pengla - 6.9	
Waller - 7.9	

#### GROUP B STATISTICAL INFORMATION

#### Above Average Class

There are 28 Students and the group. The

maximum response 21 Male Students

points, 24 students and 7 Female Students

a maximum group 7th Grade and at a semant of 112 points.

Question

1.

6.

This class is in its 7th, 8th, and 9th week of their 9 week sequence

Stanford Achievement Test Scores (Individually)

Test administered October, 1976

Students were at the 7th grade second month at the time of the test

Class range of test results 5.5 -- 12.8

Individual tests results

Male - 5.5 Male - 7.6

Male - 5.7 Male - 7.6

Male - 5.8 Male - 7.7

Male - 5.9 Male - 8.0

Male - 6.0 Female - 8.8

Male - 6.1 Male - 9.1

Male - 6.3

Female - 6.4 Male - 9.5

Female - 6.9 Male - 9.7

Female - 6.8 Male - 9.8

Female - 7.0 Female -9.8 98

Male - 7.0 Female - 11.1

Male - 7.2 Male - 12.4

Male - 7.3 Male - 12.8

GROUP B
COMPARISON OF SCORED GROUP RESPONSES ON THE
ATTITUDE INVENTORY

There are a total of 28 students in this group. The maximum response by each student for each statement equals 4 points. 28 students multiplied by 4 points equals a maximum group response on each statement of 112 points.

a maximum group	response on	Gacii Statement	or war born	0.5
Question	Pre-test	Responses	Post-test	Responses
1.	62		58	
2.	63		53	
3.	98		87	
4.	88		83	
5.	74		58	
6.	90		75	
7.	67		63	
8.	83		68	
9.	90		85	
10.	56		54	
11.	56		50	
12.	44		46	
13.	91		94	
14.	88		76	
15.	59	No.	50	
16.	78		70	
17.	66		66	
18.	87		95	
19.	69		70	
20.	63		57	

C3

				C
21.		81	58	0
22.		84	82	
23.		68	66	
24.		60	58	
25.		55	57	
26.	Pro-to	66	64	
Biggs.				
2.				
6.				
10 - 8 x				
9.				
15.				
19.				
	81			
26.				

#### SHIP

	Pro-test	
15.		
14.		
16.		

#### GROUP B

# COMPARISON OF SCORED GROUP RESPONSES OF THE ATTITUDE INVENTORY THREE ATTITUDINAL CATEGORIES

Maximum group response total possible is 112 points.

#### EDUCATION

Statement	Pre-test	Post-test
Statement	62	58
4.2.	63	53
10.5.	74	58
6.	90	75
23.8.	83	68
9.	90	85
11.	56	50
15.	59	50
19.	69	70
21.	81	58
26.	66	64

#### SELF

Statement	Pre-test	Post-test
3.	98	87
7.	67	63
12.	44	46
13.	91	94
14.	88	76
16.	78	70
17.	66	66

18.	87	95	
22.	84	88	
24.	60	58	
25.	55	57	

#### PEERS

Statement	Pre-test	Post-test
4.	88	83
10.	56	56
20.	63	57
23.	68	66

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and the same of the strade of the same of

Tobs observed tooling law, and, and the week concenses

Straford Agaleronan Jest Scorer (Individually) Fami mondatamed

Students were at the 'th grade second

Chas refine of book named to 5.0-5v4

## APPENDIX D

Male - 5.0 Male - 4.4

Male - 5.0

mis - 5.7

Delan-e.d.T

Nole - 3.7 Tends - 5.2

Female - 4.0

anala - 4.1

Female - 4.2

Pamele - 4.3 Male - 5.5

Penkla - 4.5

#### Below Average Class

21 Students		
C I S bildelibs		

maximum response 15 Male Students for each statement come la

4 points of Female Students of 4 points again a

maximum group res7th Grade and statement of 84 points.

Stabement !

4.

Male - 4.7

19.

This class is in its 1st, 2nd, and 3rd week of their 9 week sequence

Stanford Achievement Test Scores (Individually) Test administered October, 1976

Students were at the 7th grade second month at the time of the test

Class range of test results 3.0--5.4

#### Individual test results

Male - 3.0		Male - 4.4
Male - 3.0		Male - 5.0
Male - 3.7		Male - 5.0
Male3.7		Female - 5.1
Male - 3.9	33	Female - 5.1
Female - 4.0		Male - 5.2
Female - 4.1		Male - 5.2
Female - 4.2		Male - 5.2
Female - 4.3		Male - 5.2
Female - 4.3		Male - 5.4

# GROUP C COMPARISON OF SCORED GROUP RESPONSES ON THE ATTITUDE INVENTORY

There are a total of 21 students in this group. The maximum response by each student for each statement equals 4 points. 21 students multiplied by 4 points equals a maximum group response on each statement of 84 points.

Statement	Pre-test Responses	Post-test Responses
1.	51	43
2.	57	57
3.	67	58
4.	67	56
5.	55	55
6.	62	53
7.	57	46
8.	68	54
9.	69	58
10.	48	36
11.	38	43
12.	33	38
13.	68	68
14.	59	50
15.	40	43
16.	54	51
17.	52	51
18.	66	61
19.	53	54

			D
20.	47		41
21.	APERON DE SCOT 57		46
22.	55	CATEOGRIES	62
23.	47		35
24.	57		44
25.	55		36
26.	55		56
2.			
9.			
BEIF .			

15.		

#### GROUP C

# COMPARISON OF SCORED GROUP RESPONSES OF THE ATTITUDE INVENTORY THREE ATTITUDINAL CATEGORIES

Maximum group response total possible is 84 points.

## EDUCATION

Statement	Pre-test	Post-test
Spolement	51	43
4. 2.	57	57
10, 5.	55	55
20. 6.	62	53
23. 8.	68	54
9.	69	58
11.	38	43
15.	40	43
19.	53	54
21.	57	46
26.	55	56

### SELF

Statement	Pre-test	Post-test
3.	67	58
7.	57	46
12.	33	38
13.	68	68
14.	59	50
16.	54	51

17.	52	51
18.	66	61
22.	55	62
24.	57	44
25.	55	36

#### PEER

Statement	Pre-test	Post-test
4.	67	56
10.	48	36
20.	47	41
23.	47	35

APPENDIX E

#### THAN ------ BURNEY, CO SURE

A normal asked district fullows the architectal nine month in-three months out schedule. The months are devoted to school relieved by three months devoted to vacation. A year-round asked district in one in which this sine months three months schedule has been replaced by a full break a months of second.

The year-round district is divided, geographically, into four more or less equal regulary, (aqual as to the numbers of students residing in such segment.) These regularies are extlact "Cycles."

Cycls A

Cymle I

APPENDIX E

Gyels (

Ive la D

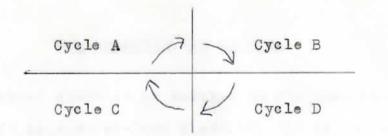
reside in a given sundivision watern act a given tently or who send in a given sundivision watern action as mandoms of the sens "Gyole." Here "Gyole" follows a similar satisfular. Heat "Gyole" spends onne waste in some followed by a three real vection period. This beside been partern accura four times such year for such opule. This waste manh "Gyole" has four times wast recations peoply. At may given moment of the standard year one "Gyole" is an execution. One reacts of the standard population (approximately) is always so wateries.

A normal school district follows the traditional nine month in-three month out schedule. Nine months are devoted to school followed by three months devoted to vacation. A year-round school district is one in which this nine month-three month schedule has been replaced by a full twelve months of school.

The year-round district is divided, geographically, into four more or less equal segments, (equal as to the numbers of students residing in each segment.) These segments are called "Cycles."

Cycle A	Cycle B
Cycle C	Cycle D

All students who are members of a given family or who reside in a given subdivision attend school as members of the same "Cycle." Each "Cycle" follows a similar schedule. Each "Cycle" spends nine weeks in school followed by a three week vacation period. This twelve week pattern occurs four times each year for each cycle. Thus each "Cycle" has four three week vacations yearly. At any given moment of the school year one "Cycle" is on vacation. One fourth of the student population (approximately) is always on vacation.



This revolving vacation pattern allows the district to provide the necessary education space for four students at the normal cost for three.

All students attend school for four nine-week periods and have four three-week vacations. Year-round students spend exactly the same amount of time in school or on vacation as students within the traditional nine-month three-month schedules.

APPENDIX P

Missouri. It is a rurel-form district. It is in the process of beaming a suburn of St. Louis, Missouri. When a wome of the district are, for the most part, white, missle close, middle income commuters. It is a year-round school district.

(See Appendix E) The district is rapidly growing, (1961-52)

1,516 students, 1977-78.5.500 students.)

while there are supremissively 0,500 students in the district this study is separated only with students at the junior high school level. There is one juster pight school in the district. It provides also room opens for 1,137 asympthesis also ighth grade students. Only these quantums of these students APPENDIX F

ore in school at any given time the appendix E. j. There are 546 students in the sighth grade and 501 in the seventh grade.

Each grade is divided into fear "Oyeles." Only the seventh grade slass was involved in this study. Due to the year-round schedule and the time period shower on 5-"Cycle" remain grade students periodipated in this study. Three classes, our from each of the remaining eyeles, totaling to students two part in this study.

This school district is located in St. Charles County,
Missouri. It is a rural-form district. It is in the process
of becoming a suburb of St. Louis, Missouri. The patrons of
the district are, for the most part, white, middle class,
middle income commuters. It is a year-round school district.
(See Appendix E) The district is rapidly growing. (1961-62
1,516 students, 1977-78,6,500 students.)

While there are approximately 6,500 students in the district this study is concerned only with students at the junior high school level. There is one junior high school in the district. It provides classroom space for 1,137 seventh and eighth grade students. Only three-quarters of these students are in school at any given time (See Appendix E.) There are 546 students in the eighth grade and 591 in the seventh grade.

Each grade is divided into four "Cycles." Only the seventh grade class was involved in this study. Due to the year-round schedule and the time period chosen no B-"Cycle" seventh grade students participated in this study. Three classes, one from each of the remaining cycles, totaling 68 students took part in this study.

SUPARISON OF ATTITUDE INVENTORY

3					
PRETERM					
		AP	PENDI	X G	

COMPARISON OF ATTITUDE INVENTORY

							. 0					
Statement		7	C3	2	9	co	တ	11	15	13	12	98
Group	Pre	54	42	09	59	54	63	29	41	48	48	20
A "Freeing"	Post	20	45	09	55	57	09	34	40	48	46	53
Group	Pre	62	63	74	06	83	06	56	59	69	81	99
B "Binding"	Post	28	53	58	75	68	85	20	20	70	58	64
Group	Pre	51	57	55	62	68	69	38	40	53	57	55
"Control"	Post	43	57	55	53	54	28	43	54	54	46	26

COMPARISON OF ATTITUDE INVENTORY

SCORES BY GROUP SUB-CATEGORY "SELF" (PRETEST-POSTTEST)

		t	3			1.4	0	-	0	C		4
Statement		0		TS	TO	T-4-	TP	7.7	P.	NA PA	10	4
Group	Pre	65	25	വ	67	56	57	20	65	56	48	~
A "Freeing"	Post	69	43	233	20	25	54	49	19	57	48	
Group	Pre	98	67	44	16	88	78	99	87	84	9	-
"Binding"	Post	87	63	46	94	92.	40	99	92	88	58	100
Group	Pre	67	57	33	69	59	54	52	99	55	24	
"Control"	Post	58	46	80	68	50	51	51	61	62	44	

COMPARISON OF ATTITUDE INVENTORY

SCORES BY GROUP SUB-CATEGORY "PEERS" (PRETEST-POSTTEST)

Group Group Group B "Binding" Group	ent 4 10 20	p Pre 61 45 38	ing" Post 56 41 34	Pre 88 56 63	ing" Post 83 56 57	p Pre 67 48 47	
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