DOCUMENT RESUME

ED 131 434

CS 003 034

AUTHOR

Patterson, R. T., Jr.

TITLE

Planning and Implementing a Peer Tutoring Approach to

Individualized Instruction to Improve Reading

Achievement.

PUB DATE

Sep 76

NOTE

163p.; Ed.D. Max II Report, Nova Univeristy

EDRS PRICE

MF-\$0.83 HC-\$8.69 Plus Postage.

DESCRIPTORS

Doctoral Theses: Educational Research:

*Individualized Instruction; Junior High Schools; Middle Schools; *Negro Students; *Peer Teaching:

Program Descriptions: *Reading Achievement: *Remedial

Reading Programs: *Tutorial Programs

ABSTRACT

The purpose of this practicum was to implement and evaluate a peer tutoring program designed to raise the reading level of a selected group of low-achieving students at Harry Stone Middle School, an all-black, sixth- and seventh-grade school in the Dallas, Texas, Independent School District. Objectives were twofold: to raise the grade-equivalent scores of at least 60% of both tutee and tutor experimental groups, within eight months, and to establish the existence of significant gains in the experimental group, in contrast with a control group. Although comparisons of pre- and posttest scores revealed that the program was not successful according to established criteria, as a result of the project, the tutoring program in the Dallas Independent School District is being revised to meet demonstrated needs. (Author/KS)

***************** Documents acquired by ERIC include many informal unpublished * materials not available from other sources. ERIC makes every effort * * to obtain the best copy available. Nevertheless, items of marginal * reproducibility are often encountered and this affects the quality * of the microfiche and hardcopy reproductions ERIC makes available * via the ERIC Document Reproduction Service (EDRS). EDRS is not * responsible for the quality of the original document. Reproductions * * supplied by EDRS are the best that can be made from the original. ************************

US DEPARTMENT OF HEALTH. EDUCATION & WELFARE NATIONAL INSTITUTE OF EDUCATION

THIS DOCUMENT HAS BEEN REPRO-DUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGIN-ATING IT POINTS DE VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRE-SENT OFFICIAL NATIONAL INSTITUTE OF EDUCATION POSITION OR POLICY

PLANNING AND IMPLEMENTING A PEER TUTORING APPROACH TO INDIVIDUALIZED INSTRUCTION TO IMPROVE READING ACHIEVEMENT

bу

R. T. Patterson, Jr.

Submitted in partial fulfillment of the requirements for the degree of Doctor of Education, Nova University

Dallas II Cluster Dr. William Webster, Coordinator Maxi II Report September, 1976

TABLE OF CONTENTS

	Page
ABSTRACT	i
INTRODUCTION	ii
IDENTIFYING THE PROBLEM	1
District Needs Assessment Data	1
Teacher Observation Data	, 6
Factors Related to the Problem	6
Demographic	6
Environmental and Behavioral	7
Definition of the Problem	7
CONCEPTUALIZING A SOLUTION	7
Selection of a Reading Approach	7
DEVELOPING A PRACTICUM DESIGN	10
Selection of Participants and Groups	10
Teachers	10
Students	11
Tests Administered for More Precise Scores	17
Selection of Materials	19
Webster Tape Lessons (WTL)	20
Continental Press, Language Skills, Kit A (CPL)	23
Continental Press, Reading Skills, Kit A (CPR)	24
Continental Press, Reading for Comprehension (CPC).	- 25
Continental Press, Reading-Thinking Skills (CPRT)	2′5
IMPLEMENTING THE PRACTICUM	26
Training of Project Teachers	26
Training of the Tutors	28
Instructional Facilitator	28
Project Teachers	29
Preparation of Tutees	34
Pairing Tutor and Tutees	34
Introduction of Tutors and Tutees	35
Getting started	35
Assignment sheet	36
Interest inventory	37
- Experience story	38



	Page
Word Lists and Word Bank for Sight Vocabulary	38
Visual method	42
Visual motor method	42
Kinesthetic method	44
Webster Taped Lessons (WTL)	47
Mimeographed sheets	47 47
Phonics Drill	52
Use of Continental Press Materials	5∠ 53
Worksheets	53 53
Reading	56
Student Rap Sessions	56 57
	57 60
Conferences Between Principal and Project Teachers	60
LIMITATIONS AND SOLUTIONS	62
Lack of Random Sampling for Selection to Groups	62
Contamination and the Hawthorne Effect	63
Use of Two Teachers	64
Limited Number of Students in Project	64
·	-
ADDITIONAL DATA	64
Tutor Experimental Group	65
Tutor Control Group	65
Tutee Experimental Group	67
Tutee Control Group	70
Summary	70
· · · · · · · · · · · · · · · · · · ·	70
EVALUATION	72
Analysis of Data, Objective One	72
Tutor Experimental Group-Vocabulary	72
Tutor Experimental Group-Comprehension	73
Tutee Experimental Group-Vocabulary	76
Tutee Experimental Group-Comprehension	76
Summary of Objective One	79
Analysis of Data, Objective Two	. 80
Statistical Design	80
Handling the Data	81
Summary of Objective Two	82
Analysis of Data, Objective Three	
Summary of Objective Three	100
Amplusia of Description Objective Processing	100
Analysis of Evaluation, Objective Four	102
Student Responses	102
A	102
8	103
C	103
D	103
E	103



1	Pag
Summary of Objective Four	104 104
A Report by John Pritchett	104
Report by Gay Spencer	105 105
Evaluation Summary	106 107
CONCLUSIONS AND RECOMMENDATIONS	109
FURTHER APPLICATION AND FOLLOW-UP	110
EXAMPLES	13
Example 1 Daily Schedule of Teachers for All Work at Harry Stone School, 1975-76	13
Example 2 Individual Pupil Summary Sheet, Houghton Mifflin Readers - Informal Reading Inventory	· 15
Example 3 Informal Reading Inventory	16
Example 4 Assignment Sheet - Reading	39
Example 5 Interest Inventory #1	40
Example 6 Word List (2)	43
Example 7 Word List #88	45
Example 8 Mimeographed Worksheets to Accompany WIL H-23	48
Example 9 Yellow Card No. 1 - Sound Dictionary	54
Example 10 Worksheet - Language Skills (Kit A)	55
notablical - Lambuage Ballia (Alt Al	17

	Page
APPENDICES	112
Appendix A	
Letter from TEA showing Harry Stone School Students Were Eligible to Participate in ESEA Targeted	110
Achievement in Reading	112
Appendim B Demographic data of Harry Stone School Attendance Area	113
Appendix C	=
Tutor Experimental Group (High Reading Level) Gates-MacGinitic Reading Test, Pretest	115
Appendix D	
Tutor Control Group (High Reading Level) Gates-MacGinitie Reading Test, Pretest	117
Appendix E	
Experimental-Control Groups (High Reading Level) Gates-MacGinitie Reading Test	119
Appendix F	
Tutee Experimental Group (Low Reading Level) Gates-MacGinitie Reading Test, Pretest	120
Appendix G	
Tutee Control Group (Low Reading Level) Gates-MacGinitie Reading Test, Protest	122
Appendix H	
Experimental-Control Groups (Low Reading Level) Gates-MacGinitie Reading Test	124
Appendix I	
Tutee Experimental Groups (Low Reading Level) Iowa Test of Basic Skills, Pretest	125
Appendix J Tutee Control Group (Low Reading Level)	
Iowa Test of Basic Skills, Pretest	127
Appendix K	
Experimental-Control Groups (Low Reading Level)	
Iowa Test of Basic Skills (Reading)	129



	Page
Appendix L Tutor Experimental Group (High Reading Level) Iowa Test of Basic Skills, Pretest	130
Appendix M Tutor Control Group (High Reading Level) Towa Test of Basic Skills, Pretest	132
Appendix N Experimental-Control Groups (High Reading Level) Towa Test of Basic Skills (Reading)	134
Appendix O Tutee Experimental Group (Low Readers) Gates-MacGinitie Reading Test, Raw Scores	135
Appendix P Tutee Control Group (Low Readers) Gates-MacGinitie Reading Test, Raw Scores	136
Appendix Q Tutee Experimental Gro p (Low Readers) Towa Tests of Basic Skills, Raw Scores	137
Appendix R Tutee Control Groups (Low Readers) Iowa Tests of Basic Skills, Raw Scores	138
Appendix S Tutor Experimental Group (High Readers) Gates-MacGinitie Reading Test, Raw Scores	139
Appendix T Tutor Control Group (High Readers), Gates- MacGinitie Reading Test, Raw Scores	140
Appendix U Tutor Experimental Group (High Readers) Towa Tests of Basic Skills, Raw Scores	142
Appendix V Tutor Control Group (High Readers), Iowa Tests of Basic Skills, Rest Scores	143
Appendix W Letter to Principals saying Additional Resource Personnel had been assigned to Tutoring	
Programs BIBLIOGRAPHY	146



LIST OF CHARTS

Chart 1		Page
Reading According to the lower Grade 6, Fall, 1974 South Oak	Tests of Basic Skills, Cliff Attendance Area	3

LIST OF GRAPHS

		Page
Gra	iph 1	
	Survey of Reading Skills, Level VI, Tutor Experimental (High Readers) Mean Scores, Pre-and Posttest	66
Gra	ph 2	
	Survey of Reading Skills, Level VI, Tutor Control (High Readers) Mean Scores, Pre-and Posttest	68
Gra	ph 3	
	Survey of Reading Skills, Level II, Tutee Experimental (Low Readers) Mean Scores, Pre-and Posttest	69
Gra	ph 4	¥
1	Survey of Reading Skills, Level II, Tutee Control (Low Readers) Mean Scores, Pre-and Posttest	71

LIST OF TABLES

·	rage
Table 1	
Number of Students Participating in Practicum	1.7
Table 2	
Tutor Experimental (High Readers), Gares-MacGinitie Reading Test, Grade Equivalent Scores	74
Table 3	
Tutee Experimental Group (Low Readers), Gates-MacGinitie Reading Test, Grade Equivalent Scores	77
Table 4	•
Tutee Summary Statistics, Gates-MacGinitie Reading Test, Raw Scores, Vocabulary	83
Table 5	
Tutor Summary Statistics, Gates-MacGinitie Reading Tests, Raw Scores, Vocabulary	84
Table 6	
Tutee Summary Statistics, Iowa Tests of Basic Skills, Raw Scores, Vocabulary	85
Table 7	
Tutor Summary Statistics, Iowa Tests of Basic Skills, Raw Scores, Vocabulary	86
Table 8	
Tutee Summary Statistics, Gates-MacGinitie Reading Test, Raw Scores, Comprehension	87
Table 9	
Tutor Summary Statistics, Gates MacGinitie Reading Test, Raw Scores, Comprehension	

LIST OF TABLES (continued)

		rage
Tab	ele 10	
	Tutee Summary Statistics, Iowa Tests of Basic Skills, Raw Scores, Comprehension	89
Tab	le 11	
	Tutor Summary Statistics, Iowa Tests of Basic Skills, Raw Scores, Comprehension	90
Tab	le 12	
	Analysis of Covariance Summary Results, cates-MacGinitie Reading Test, Tutee Raw Scores, Vocabulary	91
Tab	le 13	
٠	Analysis of Covariance Summary Results, Gates-MacGinitie Reading Test, Tutor Raw Scores, Vocabulary	92
Tab	le 14	•
	Summary of Covariance Summary Results, Iowa Tests of Basic Skills, Tutee Raw Scores, Vocabulary	93
Tab:	le 15	,
*	Analysis of Covariance Summary Results, Iowa Tests of Basic Skills, Tutor Raw Scores, Vocabulary	94
Tabl	le 16	
:ব	Analysis of Covariance Summary Results, Gates-MacGinitie Reading Test, Tutee Raw Scores, Comprehension	95
Tab l	le 17	
* :	Analysis of Covariance Summary Results, Gates-MacGinitie Reading Test, Tutor Raw Scores, Comprehension	96
Tab1	le 18	
	Analysis of Covariance Summary Results, Iowa Tests of Basic Skills, Tutee Raw Scores, Comprehension	97



LIST OF TABLES (continued)

		Page
Tab	1e 19	
,	Analysis of Covariance Summary Results, Iowa Tests of Basic Skills, Tutor Raw Scores, Comprehension	98
Tab	le 20	
	Summary of Absolute F, Gates-MacCinitie Reading Test and Iowa Tests of Basic Skills	99
Tab	le 21	
. 1	Mean Grade-Equivalent Gain Scores, Experimental Groups Only, Vocabulary (Dependent Variable Mean Minus Covariate Mean)	101



ABSTRACT

The purpose of this practicum was to use a peer tutoring program developed by the Nova participant to raise the reading level of a selected group of low-achieving students at Harry Stone Middle School. The practicum objective was two-fold: (a) raise the grade equivalent scores of at least 60 percent of both tutee and tutor experimental groups by eight months, and (b) find greater gains in the experimental group than in a similar control group with the .05 level of significance as critical. An Instructional Facilitator, volunteer faculty, and the necessary hard-and software were available. The Gates MacGinitie Reading Test (GMRT) and the Iowa Tests of Basic Skills (ITBS) were used for pre-and posttesting. practicum was not successful as implemented according to the established criteria. However, as a result of the project at Harry Stone School, the tutoring program in the Dallas Independent School District (DISD) is being revised to meet demonstrated needs and four additional professionals have been added to the staff, of the DISD Instructional Facilitator-Tutoring Programs.

* INTRODUCTION

Harry Stone Middle School is an all-black sixth-and seventh grade school in the Dallas Independent School District (DISD). Testing and observation revealed and provoked concern about the low reading level exhibited by Harry Stone School students. It was, therefore, decided that a peer tutoring program would be inaugurated with selected students at the school to see whether it would have a positive effect, improving the student reading levels.

An experimental tutor section was selected to tutor low ability readers in an experimental section. Two sections of comparable reading ability students were selected to act as control groups for each of the two experimental groups.

The participants were not randomly selected. They were placed in whichever group was meeting at the time of their language arts class. These students were then placed in tutor-tutee sections according to the scores they made on the Informal Reading Inventory Test developed by Houghton Mifflin (see example 2). Half of the highest ability readers in the school were designated as tutor control group: the other half became the tutor experimental group. Half the students reading on the second and third grade level (low ability) were placed in the tutee control group, while the other half became the tutee experimental group.

A t-test was run after the pretest had been administered to determine the equality of groups. There were no significant differences in the groups at the beginning of the practicum. Analysis of Covariance

was chosen as the statistical design to compare the mean gains between the experimental and control sections. This design allowed for any chance differences in groups as well as making adjustments for any section that might have the ability to learn faster than others. It also added strength to the statistical analysis of the practicum.

After receiving instructions from the DISD Instructional Facilitator-Tutoring Programs and from two volunteer project teachers, each tutor was paired with a tutee and worked with him or her on a one-to-one basis. Programmed material was used. The material consisted of taped lessons, phonics drill, word drill, reading kits, comprehension worksheets, and thinking skills.

After the posttest was administered, product evaluation was made in five areas: (a) individual gains of participants in the experimental groups were checked to determine if 60 percent of the students had increased their grade equivalent scores by eight months or more; (b) the Analysis of Covariance was calculated to determine if the mean raw scores of the experimental groups had increased significantly over the scores of the control groups, and the .05 level of significance was chosen as the critical point; (c) the scores of the tutor and tutee experimental groups were compared to determine which group had received the greatest benefit from the practicum; (d) a narrative report was received from each of the project teachers describing his or her reaction to the project; and (e) each of five randomly selected tutors and tutees in the experimental groups submitted a narrative report outlining their individual reactions to the project.



PLANNING AND IMPLEMENTING A PEER TUTORING APPROACH TO INDIVIDUALIZED INSTRUCTION TO IMPROVE READING ACHIEVEMENT.

By R. T. Patterson, Jr. 1 5

IDENTIFYING THE PROBLEM

<u>District Needs Assessment Data</u>

The Dallas Independent School District (DISD) tests the District's inner city Title I student population biannually through a systemwide testing program and publishes the testing data in an annual series report called Performance Profiles. The District's commitment of accountability (including reading performance) is indicated in the following quote:

The Performance Profiles are one indicator of the District's commitment to a policy of accountability to parents and the public through a systematic reporting of the educational processes and products of the DISD.²



¹Principal, Harry Stone Middle School, Dallas, Texas sixth and seventh grades, with an enrollment of three hundred fifty students.

²Department of Research, Evaluation and Information Systems, Dallas Independent School District, <u>Performance Profiles</u>, 1974-75, South Oak Cliff Attendance Area, Grades 2, 4, 6, Report No. 75-513.

DISD Research Report No. 75-513 contained testing data for Harry Stone Middle School's sixth grade students for 1974-75. (The data is for grades two, four, and six but Harry Stone School has only sixth and seventh graders.)

Measurement Profiles summarizes the charts shown in the 20 volume Performance Profiles and gives an excellent explanation of how to enterpret the profile charts. To quote from the report:

The ten groups in the decile distribution are constructed so that 10% of the students from the large-city norm group will fall into each category. The column on the far left gives the percentile range (%R) for each group. Thus, reading across the table, the first column gives the large-city norm group decile distribution and each succeeding column shows the percent of District students, by school, that are in that range.

The quartile distribution is constructed so that the District distribution is divided into quarters by the quartiles. That is, at "Q3", 75% of the District students scored below Q3 and 25% scored above it. "M" is the median, or 50th percentile, where half of the District students were above and half were below. "Q1" is the first quartile, where 75% of the local students scored above it and 25% below it. Entries in the chart yield the percent of the large-city norm group who scored below the particular District school's quartile.

"N" is the number of District students in each school who were tested.3

Each bar in Chart 1 shows the range between the first (Q_1) and the third (Q_3) quartiles, and the triangle indicates the median score. These data revealed that the median percentile rank reading level for those sixth-grade students was 8.75, a figure based on the norm of large-city

Measurement Profiles, Fall Testing, 1974, Department of Research, Evaluation and Information Systems, Dallas Independent School District.

DALLAS INDEPENDENT SCHOOL DISTRICT DEPARTMENT OF RESEARCH, EVALUATION, AND INFORMATION SYSTEMS

ACCORDING TO THE <u>Iowa Tests of Basic Skills</u>

Reading

GRADE 6 DATE Fall, 1974

South Oak Cliff Attendance Area

											. "									
	7	,			:				SCHOO	LS				- 5	s*			<u>.</u>		
ZR	Bryan	Bushman	Ervin	M.		011ver	Russell	Stone										NORM		
90-99		0	0) (0		, , , , , ,							 		0	
80-89			0	0	1) (. 0	0										<u> </u>	O L	
70- <u>79</u>	<u> </u>	0	· · · · ·	0		1	0						,,	† <u> </u>		1			A O R M	
60-69	1 1	2	1	2		1	1	3									 		OGE	
50-59		1	3	3		5	3	6			ŗ		i,	'			- ;		ED	
40-49	<u> </u>	3	-	4			4	2						-						
30-39	10		· · · · ·		9		7	8			3.1		 			 			╡ * ∵	
20-29	8			·		15	- 13	14											r	ĺ
10-19 1-9	57	14			-												<u> </u>	10	1 Y	
T-A	3	67	36		54	50	53	194								ģ		(1	ļ
N	169	226	89	207	144	ΔW	100					1	 			-	بدناتم	1,		
Qı	21:46		23.15	24.59		241	198	161			-,,			ļ						Ì
	8.30	7.46					21.30	25,9						ļ				75	1	
M	3.90		8.40	8.82	8.73	9.66	8.18	8.75	· ·			,	ļ	<u>.</u>		ļ		50		
Q ₁	שַרַּכּ	3.48	3.95	4,16	4,12	4.52	3.94	4.13										25		4
	- ∂ ⁿ	. 0				 		KELAT	ED FAC	TORS		,								
DI	55.71	68.06	46.00	71,73	65.00	4.39	1.00	62.65	1										,	
MINORITY	99.93	99.19	100.00	100.00	99.88	99.74	87,90	100.00		,	t.							:		
MOBILITY	25.71	33.64	34.95	25.62	49.33	22.45	35.79	23.79								i		-		
% TENDANCE	91.02	90.24	91.68	93,72	88.82	92.94	90.80	\$9.23												w
XILE COME	34	32	53	35	18	48	41	29		2	-									
/II ERIC	<u>55</u>	58	71	61	21	64	40	45	'	:			 	3.	, t				19	j)

schools. Fifty percent of the students of Harry Stone School were above the percentile rank of 8.75 and 50 percent were below.

Although only the sixth-grade of Harry Stone School's fall 1974-75 school year was included in the study, these sixth graders became Stone seventh graders. Unfortunately, there was no reason to think the median had changed appreciably during the single school year.

The <u>Performance Profile</u>⁴ also showed that on the vocabulary subtest of the Iowa Tests of Basic Skills (ITBS), the following breakdown applied: Percentile Range 1-9, 89 students; Range 10-19, 19 students; Range 20-20, 24 students; Range 30-39, 11 students; and Range 40-49, 11 students. These figures indicated that 55 percent of the total of 161 sixth-grade students were in the percentile range of 1-9. Based on large-city norms, 154 students, or 96 percent, had a reading vocabulary in the percentile range of 1-49.

On the reading (comprehension) subtest of the ITBS, 87 students were in the percentile range of 1-9, 19 in the range of 10-19, 23 in the range of 20-29, 13 in the range o_ 30-39, and 3 in the range of 40-49. Using large-city norms for reading, 54 percent of the students were in the lowest decile. Ultimately, 145, or 90 percent, of the students were in the percentile range of 1-49.

In summary 55 percent of the students were in the lowest decile and 96 percent were in the two lowest quartile in reading vocabulary. In comprehension 54 percent of the students were in the lowest decile while 96

^{4&}lt;sub>Op cit.</sub>

percent were in the two lowest quartiles. These data are based on largecity norms, which means the students in DISD were compared with largecity student populations that had approximately the same number of students in the grades being compared.

Consolidated Application for Federal Assistance (p. 5A-1) published for the school year 1975-76 indicated sixth graders attending Title I schools had a mean grade equivalent of 3.5 years. The publication specified:

These data indicate the need for providing supplemental instruction through the utilization of the Targeted Achievement in Reading Program to reduce reading deficiencies of eligible ESEA Title I students.⁵

According to the Elementary-Secondary Education Act (ESEA) guidelines, a student is eligible for federal assistance if he or she is reading one or more years below grade level based on the Iowa Tests of Basic Skills administered in the fall of 1974. The Consolidated Application showed that 144 sixth graders and 171 seventh graders at Harry Stone fell into the category of needing additional reading help. This point was brought home to the Harry Stone School in a communication from the Texas Education Agency in November 1975. A letter from them (see Appendix A) stated that since 93 percent of the Harry Stone students were one or more years below grade level in reading, all of the students were eligible to participate in the ESEA Targeted Achievement in Reading (TARP) program.

21

⁵ Consolidated Application for Federal Assistance, Elementary and Secondary Education Act, Title I, 1975-76.

⁶Ibid, p-5A-45.

Teacher Observation Data

A necessary component in identifying and evaluating the student reading deficiencies was teacher observation. The teachers of Harry Stone confirmed that, from their observations, approximately 90 percent of the pupils were one or more years below grade level in reading.

Factors Related to the Problem

The teachers observations regarding lack of reading success at Harry Stone School caused valid concern of the school's faculty and principal. A Reading Committee composed of the school's seven reading teachers and the principal met to try to determine the reasons for the lack of reading skills.

Demographic factors: Demographic factors were considered. Harry Stone School is an all-black sixth and seventh grade school where 79.18 percent of the students are from low income families as defined by federal guidelines. Although 273, or 81 percent, of the students were on the free lunch program during the 1975-76 school year, the geographical area is nonetheless not considered to be a hard-core poverty neighborhood. Single family zone classification predominates, with the houses valued from \$15,000 to \$19,000. Apartments in the community rent from \$101 to \$150 per month. Lower middle class is the socioeconomic level indicator commonly assigned. Further demographic data concerning the school and community appear in Appendix B; however, it was generally concluded upon consideration of demographic factors that poverty alone was insufficient to explain the reading problems.



Environmental and common-behavioral factors: A variety of other environmental and behavioral factors were then considered. Several such behavioral and environmental factors were recognized as being common to much of the student population of Harry Stone School, and as being potential contributors to the low reading level of the students: (a) lack of reading material at home; (b) probable low importance placed on reading ability by the parents; (c) lack of contact with any environment other than their own (d) frequent absences from school for various reasons, such as lack of shoes or clothes (the attendance ratio for the past three years averaged .90); (e) lack of parental involvement in school activities; (f) both overt and covert rebellion against any authority figure; and (g) frequent involvement in discipline problems of various kinds. It was believed that each and all of these factors might be contributive to "lack of motivation" with its concomitant negative effects upon reading achievement.

Definition of the Problem

With the foregoing considerations in mind, then, the ultimate problem or question to be investigated in this practicum appeared to be how to improve the reading level of selected students.

CONCEPTUALIZING A SOLUTION

Selection of a Reading Approach

The Right to Reading, Hoffman Behavioral Research Laboratories/
Sullivan Reading Program (BRL), and Southwest Reading Laboratory Program
(SWRL) were some of the special reading programs used in the Dallas

8

Independent School District (DISD). These programs were initiated in the primary grades in 1971. Therefore, the Harry Stone School sixthgrade students were in the second year and the seventh-grade students were in their first year of the B. R. I. Sullivan supplemental reading program. As a result, the faculty could not build on these particular approaches and skills. After considering various factors, the Reading Committee decided that an individualized instructional approach through the use of peer tutors might offer the best solution to the problem of how to improve the reading level of students.

In a recent paper, Bloom stated this hypothesis:

Most students (perhaps over 90 percent) can master what we have to teach them, and it is the task of instruction to find the means which will enable our students to master the subject under consideration.

Such an hypothesis underlay the committee's basic assumption that each student could benefit from and deserved instruction tailored to individual needs.

- Carl R. Rogers made the following assumptions about learners:
 - 1. Human beings have a natural potentiality for learning:
 - Significant learning takes place when the subject takes place when the subject matter is perceived by the student as having relevance to his own purposes.
 - 3. Much significant learning is acquired through doing.
 - 4. Learning is facilitated when the student participates responsibly in the learning process. 8

⁷Bloom, "Learning for Mastery," <u>Evaluation Comment</u>, Vol. 1, No. 2, May, 1968.

⁸Rogers, "The Facilitation of Significant Learning," <u>Instruction-Some Contemporary Viewpoints</u>, ed. Lawrence Siegel, Chandler Publishing Co., 1967, p. 42.

The first two assumptions buttressed the committee's own. The last two lent support to their consideration of a peer tutoring program.

Allen and Feldman had this to say about tutoring:

Tutoring has long been acknowledged as a...method for providing individualized instruction for enhancing the performance of students needing personal help with their school work.

This and similar published opinions regarding tutoring led the committee to believe that peer tutoring would be a good choice, in selecting a method of individualized instruction in reading. Consequently a tutoring program was developed which provided for the individual needs of selected students and catered to their strengths as demonstrated by a battery of tests. The groups were composed of approximately 100 selected students—50 in each of the control and experimental groups. The students not chosen for the experimental group continued in the non-graded Houghton Mifflin Reading Series with supplemental help from the B. R. L. Sullivan program as a supplement.

An evaluation process must be conceptualized when thinking of a solution to a problem. The evaluation is explained in detail later in the paper. To summarize it: (a) the purpose of the practicum was to raise the reading level of 60 percent of the students in the experimental group by eight months as determined by pre-and posttest grade equivalent scores; (b) there will be no difference in the gains of the experimental

Æ.

⁹Vernon L. Allen, and Robert S. Feldman, "Learning Through Tutoring: Low-Achieving Children as Tutors," <u>Journal of Experimental Education</u>, Vol. 42, No. 1, Fall, 1973.

and control groups at the .05 level of significance based on pre-and posttest raw scores; (c) a comparison of achievement will be made to determine if the experimental or the control groups will make the larger gain; (d) a narrative reaction of the teachers to the project will be given; and (e) narrative reactions from five randomly selected students from the experimental groups will be used.

All the students who participated in the program, both the experimental and control groups, were from Harry Stone School, so the permission of The Development Council was not necessary. The DISD Instructional Facilitator-Tutoring Program was contacted for his help and guidance in planning and implementing the project. The DISD budget for tutoring was used to purchase materials and equipment needed for the program. Since the DISD is committed to the improvement of reading, there was no difficulty in receiving the endorsement and assistance of the Instructional Facilitator-Tutoring Program.

DEVELOPING A PRACTICUM DESIGN

Selection of Participants and Groups

Teachers: Teachers who were interested in a peer tutoring program and who volunteered to participate in the program were available at Harry Stone School. Two teachers with no specialized courses in reading but who had taught reading in the regular language arts classes were chosen to conduct the program.

Students: Random sampling was not feasible because of the manner in which students were placed in sections and the organization of class schedules. Before school began in the fall, the principal made a decision determining the number of sections needed for each grade. When the number of sections had been determined, all enrollment cards for each grade were arranged in descending order of achievement as indicated by the latest score on the Iowa Tests of Basic Skills (ITBS). The first card went to 6A, for example, the second went to 6B, and so on through 6G. The process was repeated until all cards had been placed in a section. This method assured a heterogenous grouping within sections.

Regarding the similarit of the groups, a question was raised by the writer, the DISD Department of Research, Evaluation, and Information

Systems (R & E), and Nova University. The groups in the practicum were as similar as availability permitted. The assignment of treatment to one group or the other was random and under the control of the principal and the teacher committee. However, the individuals in the groups had not been randomly selected; they had been assigned according to reading achievement by the process described immediately above.

Since the lack of random selection did provoke a question as to the validity of comparing the groups, it was not ary to explore further the extent of their similarity. To this end the pretests were employed as sources of information. By running a t-t at of the data provided by the pretest, it could be determined if there were any significant differences in the groups at the beginning of the pract m. The t-test was

calculated based on the pretest raw scores on the Gates-MacGinitie

Reading Tests (GMRT) as well as the Iowa Tests of Basic Skills (ITBS) in
the area of vocabulary and comprehension. Appendices C through N show
the raw scores as well as the calculations to determine the absolute t
when comparing the experimental and control groups in each category.

The <u>t</u>-tests showed that there were no significant differences between the control and experimental groups. Though there had been no random assignment of students to groups, there were no significant differences in pretest scores.

This analysis of raw scores satisfied the writer, the DISD R & E Department, and Nova University that therewere no significant differences in pretest scores and that the groups were indeed similar.

Having thus determined the experimental and control groups, the next step was to schedule their instruction time.

Instructional units were taught in blocks of time. The schedule of specified time blocks appears on the next page. (Example 1) Language Arts classes were two-hour periods: the first hour was spent on reading, the second hour on other aspects of language arts. Each Language Arts teacher taught more than one section. For instance, Teacher A had section 6A from 8:30 to 10:30 and section 6B from 10:30 to 12:30. During the first hour of the Language Arts periods, however, Harry Stone became non-graded, and students were assigned to reading teachers according to reading achievement level. Thus Teacher A had only those students in 6A who fell within the reading level she was assigned during that reading hour; the remainder of her reading students were from other sections.





EXAMPLE 1

	DAILY PROGRAM OF	Teachers Fork	All hemdhilde tiepartmentyl	YORK	e.
August 18, 1975	Date	DALLAS INDEPENDENT SCHOOL DISTRICT	ţ,	,	
R. T. Patterson, Jr.	Principal	DALLAS, TINAS	<u> </u>	rry Stone	School

The principal must make for the departmental organization and for the broadfields organization a class program and a teacher program. A revised copy of each must be kept posted in his office, and a duplicate copy of each filed with the Assistant Superintendent—Organization. The principal will supply the time of the opening of a period at the head of each column.

TEACHER HOOM NIMMER 8125 9100 9130 10100 10130 11100 11130 12100 12130 1100 113C 2100 AND AND ASSIGNMENT 9100 9130 10100 10130 11100 11130 12100 12130 1100 1130 2100 2130 Peppers 6A L.A. 6B L.A. Lunch 6B L.A. 6C S.S. 6B S.S. 6B S.S. 6B S.S. 6C S	13 2130 3100	3160 3165 Flan
Spencer 6D 111 6C L.A 6D L.A. Lunch 6D L.A 6C S.S 6D S.S 6E S.S 6E S.S 6E S.S 6E S.S 6E S.S	*******	Flan
Spencer 6D 111 6C L.A 6D L.A. Lunch 6D L.A 6D S.S 6D S.S 6E S.S 6E S.S 6E S.S		•
Koger 6F 105 6E L.A 6F L.A Lunch 6F S.S 6E S.S 6E S.S		Plan
16G	150000000	Flan
Volch 7 207 6 L.A		Man
Wells 7E 202 7B L.A. 7C S.S. 7B S.S. 7		Plan
Pritchett 7D 7D 208 7D L.A. 7E S.S. 7E S.S. 7D L.A. 7E S.S. 7E	********	Plan
Catés 7 205 7F L.A. 7G S.S 7G	.a	Plan
Vest Math 106 7E Math 7C Math 7D Math 7B Math Eunch 7A Math 6G Math 6G Math	********	Plen
Adags Math 110 68 Math 67 Math 60 Math 60 Math 60 Math 60 Math		Flan
Blevins Art 201 7A 7C 6B 6D 6C Innch 6C 7D 7B 7E 6A	68	71an
Perry Nue 203 65 6D 7A 7E 7B 6G 6C Lunch 6A 6B 6E 7D	70	Plan
Stewart P.E. Gym 6D 6F 7E 7A 6G - 7F 7B 6A Lunch 6C 6E - 7G 6B 7C	70	Plan
Lewis Sci P. R. 18 76 Math 18 76 Math 78 Sci 68 Sci 68 Sci 68 Sci 68 Sci 78	61, 301	Plan
Arbuckle Nus 7.E 76 Sci 76 Art 76 Sci 68 Sci Lunch 70 Sci 69 Sci 68 Sci 77 Mus 77 Mus 77 Mus	7F Art	Plan
Shock Lib-Lib RESOURCE TEACHER A.V. Lunch RESOURCE TEACHER		Plan
Toynsy BRL 104 Plan		Plan
Clay Plan A Self - Contained Lunch Plan A Self - Contained	Flan	Plan
116	Plan	Plan
	/	ŧł .
ALTERNATING CLASS: Top of line meets on even days		
ALTERNATING CLASS: Top of line meets on even days Bottom of line meets on old days	:	
	:	
	30	

The reading levels for all students were determined early in September by use of the Informal Reading Inventory Test, a placement test put out by Houghton Mifflin Company for the purpose of determining at which level in the Houghton Mifflin readers a student should start. A copy of an Individual Pupil Summary Sheet and of an Informal Reading Inventory sheet appear on pages 15 and 16.

The principal and the two project teachers decided to use Level-6, Level-7, and Level-12 (and above) readers as the participants in the practicum. They further decided to designate the Level-6 and-7 readers at ,10:30 as the tutee experimental group. The Level-12 (and above) readers at 8:30 thus became the tutor control group for the advanced readers, while the Level-12 (and above) group from the 10:30 period became the experimental tutor group. In short, the experimental groups met at 10:30 each day, the control group at 8:30, as the following chart shows

Experimental		Control	
	10:30 Level-6, Level-7	8:30 Level-6, Level-7	
	10:30 Level-12 (and above)	10:30 Level-12 (and above)	

Records and data were kept on approximately 25 students from each of two experimental groups and from each of the two control groups. This made a total of approximately 100 students participating in the project; more precisely, 102 students began the program, and 93 students completed the program.

Example 2 - Individual Pupil Summary Sheet - Houghton Mifflin Co. removed due to copyright restrictions.



Tutee

Tutor

16

EXAMPLE 3

INFORMAL READING INVENTORY

Name	Date
Basal Reader	_No. of Words in Selection
*Words asked for in silent reading	* *Words missed in oral reading
SILENT READING CHECK LISTMoves lips without sounding	**************************************
Whispers Points with fingers Bobs head (pointing!) Holds book too close Holds book too far away Appears tense Moves head from side to side Reads slowly Is restless WORD ANALYSIS CHECK LIST: WORD ANALYSIS CHECK LIST: In add the letter represents Unable to do initial consonant substitution Unable to do final consonant substitution Unable to do vowel substitution Unable to recognize the root word Unable to recognize prefixes Unable to recognize suffixes	Mispronounces excessively

^{*}List proper names and repeats if they occur, but do not count in totals. =Be governed by the child's natural flow of speech to determine this.



Table 1 shows the actual numbers and allocations of students participating in the project at the beginning and end of the school year.

TABLE 1

Number of Students Participating in Practicum

Groups	Beginning of Practicum	End of Practicum
utor Experimental .	26	24
utor Control	28	26
utee Experimental	24	21
utee Control	24	22
otal Number of Students Participating	102	93

The number of the Tutor Experimental Group decreased by two, the Tutor Control Group by two, the Tutee Experimental Group by three, and the Tutee Control Group by two. The total participants decreased from 102 to 93, a decrease of nine students. The nine students who did not complete the practicum transferred from Harry Stone School during the period covered by the practicum.

Tests Administered for More Precise Scores

Although the Informal Reading Inventory Test gave a general breakdown in reading levels, a more precise grade score was needed for the purpose of this practicum. Therefore, during the second week in September, 1975,



the Iowa Tests of Basic Skills (ITBS) was given to all students at Harry Stone School. The ITBS is a part of the DISD system-wide testing program and is mandatory. The ITBS posttest was given the last week in April and the first week in May, 1976.

During the first week of October, 1975, the teacher in charge of the control and experimental groups on reading Level-6 and 7 administered the Gates-MacGinitie Reading Test (GMRT), Primary C, Form 1. The experimental and control groups reading on Level-12 (and above) used the GMRT, Survey D, Form 1, as a pretest for vocabulary and comprehension skills. These tests gave a more accurate assessment of the reading level of both the control and the experimental groups at that time. The same tests were given the second week in April, 1976, as a posttest.

The DISD designed Survey of Reading Skills (SRS), a criterion referenced reading test, was also administered. The SRS is a group test that can be hand scored and is designed to reveal the reading strengths and weaknesses of each student. The teacher working with the control and experimental groups on reading Levels 6 and 7 administered the SRS, Level 2 during the second week in October, 1975. The teacher working with the experimental and control groups on Level 12 (and above) administered the SRS, Level 6 during the second week of October, 1975. The same tests were administered the second week in April, 1976, as a posttest.

The ITBS and GMRT gave more precise scores than were obtained previously from the Informal Reading Inventory Test. These more precise raw and grade-equivalent scores were necessary to statistically compare the



gains made by the control and experimental groups during the course of the practicum.

Selection of Materials

Guided by the results of the tests, conferences with other teachers, and recommendations made by the DISD Instructional Facilitator, the two teachers chose the programmed reading naterial and decided on the methods and techniques to be used by the tutors. With regard to the latter, it was hypothesized that each tutee would improve his/her reading skills if the individual tutor (a) allowed each tutee to advance at his/her own rate, (b) concentrated on tutee strengths, (c) minimized the tutee's feelings of failure, and (d) used a combination of methods to hold the interest and motivate the tutee.

The tutors would be helped by these methods and materials by (a) concentrating on specific assignments for the benefit of the tutee, (b) learning patience in dealing with peers less advanced than the tutor, (c) being responsible for the gains made by his/her tutee, and (d) preparing in advance for the lesson to be presented on that particular day.

Specifications of the methods and techniques used by the tutors are discussed more fully on pages 28-34; "Training of the Tutors." This section focuses upon the selection of materials used by the tutors.

The tutors used listening centers, tapes, workbooks, duplicated worksheets and personal interest stories written by the tutees themselves to aid in the development of tutee reading skills. More specifically, the programmed material chosen consisted of the following: Webster Tape



Lessons (WTL), Continental Press, Language Skills, Kit A (CPL), Continental Press, Reading Skills, Kit A (CPR), Continental Press, Readings for Comprehension (CPC), and Continental Press, Reading--Thinking Skills (CPRT).

Webster Tape Lessons (WTL): These lessons are published by Webster's International Tutoring Systems, Inc., and involve reading in the content areas. The material consists of 96 cassette tapes along with 48 separate lessons in the subject areas of history (geography is combined with history), math, and science. The tapes proceed chronologically from grade level two through grade level six. For this practicum, grade levels two and three were used. Every subject had six accompanying lessons for each level.

The mathematics lessons used at Harry Stone School attempted to develop specific reading skills by addressing themselves to the following:

Comparisons
Sequential order
Translating words into symbols
Translating symbols into words
Obtaining information from
tables, charts, and multiple
word meaning graphs

Perceiving relationships Visualization Drawing conclusions Time relationships Relationships in Formulas and Equations

Word meaning: Technical mathematical terms, abbreviations, literal numbers, alphabetical symbols, relationship symbols, and grouping symbols.

The tapes used in developing reading skills by the use of mathematics lessons were:



Grade 2

- 1. How Little is Big? How Big is Little?
- 2. Man's Way to Tell Time
- 3. Place Value
- What is a Set?
- 5. =, ≠, ,
- Adding Like Things is a Short Cut to Counting

Grade 3

- 1. How We Use Numbers
- 2. Numbers Tell Time
 - What is a Group in Mathematics?
- Whole-Number Relations
- 5. How Subtraction Works
- Multiplication: Fast Way to Add .

The science lessons attempted to develop specific reading skills by addressing themselves to the following:

Making Comparisons

Classification

Inductive Thinking

Deductive Thinking Identifying Relationships

Sequential Order

Word Meaning: Technical Symbols, Diagrams, Formulas, Equations,

Maps, and Pictures, Non-Technical Words and

Phrases

The tapes used in developing reading skills by the use of science

lessons were:

Grade 2

- Water
- 2. Living Things
- 3. Trees
- 4. Science is Big
- 5. Scientists
- 6. Right

Grade 3

- Simple Machines
- 2. The Airplane
- Animals with One Call
- Fishes, Amphibians, and Reptiles
- 5. Mammals
- Plants and Animals Need One Another

The worksheets used to develop reading skills by the use of science lessons includes the following:

Grade 2

- 1. Are crows scared of scarecrows?
- 2. Is there a dog that doesn't bark?
- 3. How does the Emperor penguin keep an egg warm?



- 4. Were chickens ever wild?
- 5. Are there bees that don't sting?
- 6. How does a starfish see?
- 7. What is an ant lion?
- 8. What does a sea horse eat?
- 9. Can a snake back out of a hole?
- 10. What do dogs hide?
- 11. Is there a fish with four eyes?
- 12. Why did the Indians paint their bodies?
- 13. What is a panda?
- 14. What is a jelly fish?
- 15. What is walking catfish?
- 16. How many eyes does a grasshopper have?

Grade 3

- 1. Does a giant redwood tree have giant roots?
- 2. How can a bat fly in the dark?
- 3. Do fish blink?
- 4. What happens to a honeybee after it stings?
- 5. Does it ever snow in the desert?
- 6. Does a firefly's light ever go out?
- 7. How did the bullfrog get its name?
- 8. Is there really a bread cree?
- '9. What is a bandicoot?
- 10. What is an ancher fish?
- 11. What is a snow-eater?
- 12. Can a bun heri? w taste and smell?
- 13. How din stories about mermaids star:?
- 14. How do they get ships into bottles?
- 15. Why do ground hogs c.g up fields?
- 16. Do alligators have a voice?

- 17. Are there man-eating plants?
- 18. Where can the crossbill be found?
- 19. Can an owl move its eyes?
- 20. Why does a mole dig?
- 21. Do seals sleep in the water or on land?
- 22. What is a dogfish?
- 23. Do some rabbits turn white in winter?
- 24. How do flying fish fly?
- 25. Why don't polar bears slip on the ice?
- 26. Has the U. S. flag rlways been red, white, and blue?
- 27. What are ant cows?
- 28. Are painted turtles really painted?
- 29. What was the elephant bird?
- 30. Do prairie dogs belong to the dog family?
- 31. Are goldfish always gold?
- 32. How did people get ice in the old days?

Specific reading skill; developed by the taped history lessons in-

cluded the following:

Recognition of Rhyming Words Visualization Comparisons

Place and Space Relationships Making Inferences Reading Between The Lines Reading Maps, Pictures and Charts Sequence 'of Events Time Relationships Using Maps, Tables, and Charts Cause and Effect

Making Associations Chronological Order Relationships Between Past and Present Drawing Conclusions Answering Specific Questions

Grade 2

- A home Gives Shelter Families Today and Long Ago The Community
- 4. Schools in Early America
- Our Country's Flag
- 6. Travel by Land, Sea, and Air
- Our World, the Earth
- The Earth, the Sun, and Air
- 9. The Earth's Water
- The Globe and the Earth 10.
- 11. The North Pole, the South Pole and the Equator
- 12. Maps

Grade 3

- From Logs to Nuclear Power
- World Trade Makes Life Better
- Invention of Wheel Makes Life Easier
- "Mr. Inventor" 4.
- 5. Displaying the Flag
- America the Beautiful

- Directions on the Earth
- How Maps and Globes Are Different
- 9. Land and Water on the Earth
- 10. Lakes
- 11. Rivers
- 12. Wind

Continental Press Language Skills (CPL), Kit A: This material consists of ten units of duplicating masters with each unit containing 30 separate masters. The units are arranged to help pupils gain, step by step, the skills they need for effective communication. The lessons are programmed into small steps, and the sequence for introducing new material is very carefully controlled. Sufficient practice is provided for reinforcing every learning experience. At Harry Stone School, well-planned reviews were an important part of the program.

The following are the unit names and the skills they teach which were used at Harry Stone School:

- Unit
 - 1 Alphabet Skills
- Unit
- 2 Naming Words and their Plurals

```
Unit
        3 Is, Are, and Doing Words
Unit
        4 Describing Words
Unit
        5 Capitalization
        6 Telling about the Past
Unit
Unit
       7 Kinds of Sentences
Unit
        8 Using Signals (Punctuation)
Unit
        9 Writing Good Sentences
Unit
       10 Writing Stories and Letters
```

Continental Press Reading Skills (CPR), Kit A: This material consists of ten units of duplicating masters with each unit containing 30 separate masters. The units are arranged to help pupils gain, step by step, the skills necessary to read words and sentences. A five-step pattern is used to introduce and reinforce each letter-sound relationship: auditory discrimination of the sound, writing the symbol, symbol-sound association, visual discrimination, and writing the letter context of a word. There is also a systematic plan for review as additional letters and their sounds are presented. Students are given opportunities to apply letter-sound associations in isolated words that name pictures of familiar objects and in words that are used in short, meaningful sentences.

The unit names and the skills they teach that were used at Harry Stone School include the following:

```
Unit
        1 Initial Consonants:
                              s, m, t, f
Unit
        2 Initial Consonants: c, n, h, b
Uniť
        3 Initial Consonants: d, w, g, 1
Unit
        4 Initial Consonants: p, r, j, k
Unit
        5 Final Consonants: t, n, p, k. 1, f
Unit'
        6 Final Consonants: g, m, b, d, s, f
        7 Short Vowels: a, e, i
Unit
Unit
        & Short Vowels: o, u
        9 Long Vowels: a, i, o
Unit
Unit
       10 Long Vowels:
```



The CPR kit also includes as its last step, materials labelled The Sound Way to Easy Reading: This material consists of four taped records and seven accompanying sound cards. It is designed to teach (a) the alphabet, (b) long vowels, (c) short vowels, (d) consonants, and (e) blends.

Continental Press, Reading for Comprehension (CPC): The material selected for use at Harry Stone School consisted of four units of duplicating masters, two units for grade level two and two units for grade level three. Each unit contained 16 separate masters. The purpose was to provide stimulating materials for practice reading and to develop comprehension skills. To accomplish the first part of the goal, the units contained science-oriented topics. Each topic was presented in an article (300-330 words) written at the appropriate grade level. To accomplish the second part of the goal, there were carefully planned questions following each article to recall factual information, identify topics of paragraphs, distinguish fact and opinion, complete an analogy, make inferences, and discover the main idea. Vocabulary enrichment included questions on shift of meaning as well as the use of context clues.

Continental Press, Reading-Thinking Skills (CPRT): The material used at Harry Stone School consisted of four units of duplicating masters, two units for grade level two and two units for grade level three. Each unit contained 24 separate masters. The purpose was to develop critical thinking skills in reading. The major skill areas emphasized were

inference, organization, judgment, and imagery. Numerous subskills were also taught:

- 1. Generalizing
- 2. Using Multiple Meanings
- 3. Substituting Synonyms
- 4. Interpreting Compounds
- Determining Analogous Relationships
- 6. Judging--Fact or Opinion
- 7. Judging--Character
- 8. Judging--Emotions

- 9. Developing Sensory Imagery
- 10. Noting Inconsistencies
- 11: Appraising Relevancy of Ideas
- 12. Organizing--Main Ideas, Time Order
- 13. Organizing--Time Order
- 14. Predicting and Organizing
- 15. Inferring from Context
- 16. Verifying Inferences

IMPLEMENTING THE PRACTICUM

Training of Project Teachers

Once the selection of materials had been made, attention was focused upon the training of the two project teachers.

The DISD Instructional Facilitator spent two one-hour instructional sessions with the project teachers, Mr. John Pritchett (tutors) and Mrs. Gay Spencer (tutees). In his initial instructions to them, he gave an overview of the process and philosophy of tutoring. He pointed out that tutoring is designed to take advantage of instruction in a one-to-one situation. As for pear tutoring, he indicated research had shown (Coleman, 1961; Freidenberg, 1965) that peer pressure is one of the most important factors of learning in today's schools. "What better way to take advantage of peer pressure than to have one student tutor another?" he asked.

All ways of teaching reading are effective but no one way is effective with all students. Students learn in different ways, and the



tutoring approach to reading is a method which allows a student to learn in a way that best suits him. For example, the Instructional Facilitator pointed out, the learning of basic concepts is largely a matter of action rather than examples and definitions. The tutoring program allows such action. In the peer tutoring approach to reading, the teacher takes a passive role. The tutors take an active role. Doing so, they motivate the tutees to participate in the activity. Both tutors and tutees thus benefit. It is the students and materials used that teach rather than the project teacher. Simultaneously, the peer tutoring process provides for the repetition and use of the multisensory approach in learning to read which has proved to be effective in learning reading skills.

Another point that the Instructional Facilitator emphasized was that the students be allowed "to visit" during tutoring sessions. Of course, the visiting had to be controlled and not allowed to interfere with the work of an adjoining group. Under the program, however, the students should be allowed to determine when the visiting should take place.

The Instructional Facilitator then opened the session to question and answers. Actually there were few questions because the project teachers, were not familiar enough with the program to ask intelligent questions. The questions came after the program was underway and the teachers were faced with the problems encountered in a tutoring situation. Fortunately the Instructional Facilitator was always willing to answer questions and took the time to come to the school to help the program run more smoothly.

At the second session, the Instructional Facilitator explained the mechanics of the program, how it would operate once the tutor and tutee



came face to face. The project teachers were given printouts showing the steps to be taken during the class period. In addition, the Instructional Facilitator suggested programmed material to be used for the practicum. As previously noted the project teachers accepted his suggestions. At a later date he came back and explained to the teachers exactly how the materials could best be used in the classroom in an actual tutoring situation.

The Instructional Facilitator ended the second session by saying that motivation was the main factor in teaching a child to read. His philosophy was the humanistic approach patterned after Carl Rogers 10 self-actualization. He quoted Rogers as saying that to motivate a student we must "turn his self-actualizer on." He adapted Roger's five steps to good counseling to the tutor-tutee relationship:

- 1. The tutor and coordinator must be congruent persons.
- 2. They must provide an unconditional atmosphere of acceptance to the tutee.
 - 3. They must provide empathy but not sympathy.
 - 4. The tutee must be aware of his problem.
- 5. The tutee must be aware that the previous four conditions exist.

Training of the Tutors

DISD Instructional Facilitator: The Facilitator spent one hour instructing the students. Both the DISD Instructional Facilitator and Harry Stone School project teachers contributed to their training. His first instructions were in general terms. He told the tutors that their role



¹⁰ Carl R. Rogers, On Becoming a Person: A Therapist's View of Psychotherapy, Boston: Houghton Mifflin Company, 1961.

was to provide encouragement and support to the work done by the tutees. He explained that they could help tutees develop a positive self-concept by complimenting them on their appearance, thinking, and school work. The tutor would show his acceptance of the tutee by listening to what the tutee had to say. The tutor could also help the tutee develop a positive attitude by giving him or her tasks that could be performed successfully and by saying that he or she had performed the task well. No tutor should criticize a tutee for mistakes but should be receptive to a tutee's efforts even when mistakes were made.

The facilitator cautioned the tutors about some particular points and offered them some specific directives:

- 1. Avoid a patronizing tone and relate to your tutee as an equal.
- 2. Avoid thinking of yourself as the one who has all the answers.
- 3. Don't expect your tutee to show appreciation for your efforts before you have become a friend.
- 4. Be willing to start at your tutee's level and move at the tutee's pace if progress is to be made.
- 5. Be a good listener and be able to communicate with your tutee.
- 6. Don't be quick to judge. Many tutees have gone through life with very little success.
- 7. Look at your tutee as an individual. His or her differences from you make him or her an individual. Viewed in this light, the differences may appear as strengths.
- 8. Don't take advantage of the tutor-tutee relationship to play "boy-girl" games. The tutee needs your help.

Project teacher: The project teacher for the tutors spent one hour each day for four days on further instructions. He told the tutors that the reason for peer tutoring was that students often learn best from other students, pointing out the system's many advantages: (a) it provides the one-to-one relationship many students need in order to learn; (b) it allows for concentration and repetition in certain areas where the individual



student needs more attention than could be allotted any individual student in a group class situation; and (c) it improves the tutee's picture of himself.

The teacher emphasized some of the things one has to be able to do in order to be a successful tutor: get to know and like the tutee; try to find out what interests him or her; be sure the tutee succeeds—that makes a tutee feel good about himself or herself, and success breeds success.

The project teacher also gave the tutors some suggestions for getting along with their tutees. For example, since what a person is called is very important to him or her, be sure to pronounce any tutee's name the way he or she wants it said. Each tutor should show the tutee that he or she is interesting as a person. Each tutor should try not to be absent or late for tutoring sessions. The tutee would be watching each tutor as an example, so the tutor should talk to the student in an easy comfortable way and should listen to what the tutee has to say.

Making the suggestions more specific, the project teacher said:

I have given you some of the general things that will make the tutoring program a success. Now let's see what we do when we meet the tutee for the first time. Greet the tutee as a friend. Spend the first part of a session, a whole session, or several sessions as needed just talking to the tutee to determine what he likes and dislikes. This will help to get the sessions off on a friendly basis. (Pritchett, 1975)

At this point the tutors were broken down into groups of three for role playing. One assumed the role of the tutor, another the role of the tutee, while the third was an observer. The tutor started asking questions of the tutee about what he liked, disliked, etc. The tutee responded



and a discussion started. After five minutes the role playing stopped and the observer gave his impression of how the talks went in light of what they had been told about making friends with the tutee. The roles then were shifted. This role playing continued until all had had the chance to be a tutor, tutee, and an observer.

At the beginning of the role-playing session, the students were very self-conscious; but with practice, they soon became more comfortable.

The project teacher then introduced an interest inventory sheet and explained its use and need. (Description and example appear on pages 40-41). He told the tutors that after they had greeted their tutees and had talked about their likes and dislikes, they still would need to know more about the tutee's interests. He said that conversation would give some clues, but that in order to get details an interest inventory sheet should be completed. Then the tutors could discuss those interests as another means of getting to know the tutees better. Filling out the interest inventory sheet would also be a good opportunity to start checking for spelling, mispronunciation, and so on.

Another role-playing session followed. Gathered in groups of three, and again playing the roles of tutor, tutee, and observer, each tutor completed an interest inventory. In addition, the role-playing tutee read his interest inventory, the tutor commented and corrected any mispronounced words or spelling. Students playing the role of the tutees sometimes made mistakes just to see how the tutors would make corrections without appearing as a "know it all." After five minutes of such role-playing, the observer

gave his or her impression of what has gone right, what had gone wrong, and possible ways of correcting any errors. The role-playing continued until each of the three students had again had a chance to perform in each of the three roles.

At this point the project teacher started explaining the material, the abbreviations used on the assignment sheet (description and example appear on pages 39-41), where the material would be located in the room, how to use the assignment sheet, and how to use and mark word cards. Ten tape players had been modified so there were two outlets for headphones. The students were shown the players and told how to attach and use the headphones.

Again the tutors went through a simulation exercise. The "tutor" went to the filing cabinet for an assignment sheet. The sheet would show, for example, that the tutee should be working on word list and WTL-H21 assignment; H21 means taped history level 2 lesson 1. The role-playing tutee called the words from the word list until five had been missed; then word cards were made. After this part of the assignment was completed, the tutor found the tape marked WTL-H21, together with the worksheets that accompanied it, and a lesson was simulated. When this was done, the observer again commented on what had been done, trying to improve the approach to the lesson as well as offer constructive criticism about the "tutor's" way of helping the "tutee." This continued until each of three students in the group had had the chance to play each role.



The project teacher told the tutors that he realized they would make mistakes, and not to worry about them. Friday of each week had been set aside so those problems could be discussed. Other ideas tutors might have for particular tutees or lessons could be shared at that time, too.

During the four-hour training period of the tutors by the project teacher, the importance of taking a positive approach was stressed purposely. The principal and project teachers wanted the tutees to experience some success. They had experienced failure often in the past; their low reading scores were one evidence of this. Cohen added weight to the positive approach when he said: "Tolerance for failure is best taught through providing a background of success that compensates for experienced failure...."11 They should not be expected to "get everything right." On the other hand, it was pointed out that the tutors should let the tutees know that they were expected to show increasing success. To that end, the tutor was advised to praise his tutee for any honest success by saying, "See, I knew you could do it," or some similar statement. For example, if the tutee were wrong, the tutor should simply correct him without saying he was wrong. Thus, a tutee shown the word "there," might read it as "that." The tutor should say "there" and ask the tutee to repeat it. When the tutee says "there," he or she is praised and the tutor moves on with the lesson. As Bowers and Soar said: "the more supportive the

¹¹S. Alan Cohen, <u>Teach Them All To Read</u>, New York, Random House, 1969, p. 231.

climate, the more the student is willing to share, the more learning will take place...."12

Preparation of Tutees

During the same week the project teacher for the tutees explained to them what was planned. The project was described as a different way to learn reading, and the tutees were told that the tutors were to be considered as friends and helpers not as a "boss." The teacher emphasized that tutees and tutors were to work together in a cooperative effort. approached the prospect in a positive and encouraging manner to prepare the tutees emotionally, mentally, and psychologically for the project. The prospective tutees had many questions, and Ms. Spenser attempted to answer in a frank, but reassuring manner. No formal preparation was given the tutees.

Pairing Tutor and Tutees

The last Friday in October, the school personnel involved in the project -- the two project teachers and the principal -- met to pair each tutor with a tutee. Personality conflicts as observed by the teachers were avoided as much as possible. If a tutor had asked for a particular tutee or if a tutee had asked for a particular tutor, the request was granted if possible. In three cases the same tutor was requested by two different tutors. In these cases decisions were made by the principal as



¹² Norman D. Bowers and Robert S. Soar, "Studies in Human Relations in the Teaching/learning process," <u>Evaluation of Laboratory Human Relations Training Course for Classroom Teachers</u>, Chapel Hill, N. C., 1961, p. 111.

to which pairing would be best for the student involved. In most cases, the pairings worked adequately, but some changes had to be made during the course of the practicum. One tutor had to be assigned four different tutees before a satisfactory pairing was found. The fourth pairing proved to be very productive. However, the writer was satisfied that most original pairings were successful.

Introduction of Tutors and Tutees

Getting started: The peer tutoring program was actually inaugurated when the tutors met their tutees for the first time, the first week in November. Each paired tutor and tutee chose a place relatively free from possible interruptions and started talking. The purpose was to build rapport between the two. The tutor started the conversation by asking questions similar to the examples that follow: (a) What section are you in? (b) Who is your homeroom teacher? (c) How many brothers and sisters do you have? (d) Does your mother work? Is she at home when you return home from school each day? (e) Do you walk to school or does your mother bring you? (f) Do you have any pets? What are their names? (g) Do you like sports? What one do you like best? (h) Are you going to play any sports at Harry Stone School this year? These questions encouraged the tutee to start talking about himself or herself. They also gave the tutor some insight into what the tutee liked and did not like.

In addition, each tutor started a story and them asked the tutee to complete it. For example, the tutor said:



On my way to school this morning I saw a dog running after a little boy. It was a very small dog and was having trouble catching the boy. Now pretend that is the beginning of a story. I want you to complete the story for me.

The tutee's finishing the story aloud would again give the tutor some idea of the tutee's interest and ability to think and verbalize.

This type of intercourse continued until the tutor and tutee became comfortable with each other. It took one day with some; with others two days were spent in this type of activity before they could move to the next step in the program.

Assignment sheet: Assignment sheets in sequential order of difficulty were prepared for the entire project by the Instructional Facilitator and approved by the writer and the two project teachers. They were flexibly individualized so that the tutor could start at any point depending on the bility of the tutee. The reading levels of the tutees indicated that the work prescribed by the assignment sheets be on second and third grade. Ievel. Thus, each assignment had a prefix of C. The first eight lessons dealt with Interest Inventory, experience stories, talking with tutee, phonics drill from words used in experience story and interest inventory, and the beginning of a word list made from words used in the experience story and interest inventory.

The programmed material actually started with lesson C-9 when the Webster Tapes were mentioned as a part of the assignment. On a typical day, when the tutor and tutee entered the room, the tutor went to the filing cabinet, pulled the file of the tutee, and saw they were ready to start on lesson C-9. The first activity listed in C-9 was a Phonics Drill

on tape. This tape required approximately five minutes for listening and performing the activities. The next activity listed WTL (H-23). This meant that the tutor and tutee would locate the taped lesson, "history, second level, third lesson" and pursue the activities connected with this lesson. Approximately thirty minutes would be used in this activity. The next activity listed was the word list. At that time the words in the tutee's word bank would be reviewed. As the tutee progressed, the team would go to prepared word lists. The tutee would call words until five were missed (misspelled, mispronounced, grammatically incorrect). These words would be added to his or her word bank, and the place on the word list would be marked so that the team would know where to start the next time the Word List was mentioned on the assignment sheet. Approximately ten minutes could be used in this activity. The fourth activity listed in C-9 was CPC-21-p.9. This meant that the tutee would go to the Cuntinental Press material on Comprehension, Unit two, level one, page 9, and perform the activities shown on the duplicated copy.

The assigned activities did not have to be followed in order. For example, the tutor-tutee team could start the day's activity with the word list rather than the phonic drill. An assignment sheet is shown as Example 4 on page 39.

Interest inventory: An example of the Interest Inventory is shown as Example 5 pages 40-41. That sample Inventory was actually completed by a tutee. The tutee's answers are underlined and copied just as they were written, errors and all.

As soon as a tutor-tutee pair had established a comfortable rapport, the tutee filled out an inventory. When any inventory was completed, the tutee-author read it aloud to the tutor. They stopped when a word was missed, and the tutor told the tutee what the missed word was. Then the tutee wrote the word on a 3 x 5 card which became the start of that tutee's word bank. Other words taken from newspapers, magazines, and so on were added to the bank during the program. The idea behind the Inventory was to learn words that the tutee did not know as well as to determine the tutee's interest.

Experience story: After The Interest Inventory, the tutee was asked to write an experience story. It could consist of as few as two or three sentences. Some of the stories were real experience stories. Some tutees wrote down anything that came to mind, "just to get it done." In either case, the tutee read back to the tutor what he had written, and the missed words would be placed in the tutee's word bank for future reference. Periodically these words would be reviewed to be sure that the tutee had actually learned them.

Word Lists and Word Bank for Sight Vocabulary

As a goal of the program, tutor-tutee teams were to increase their sight vocabulary. One method was through the maintenance of a word bank. The programmed material had two different kinds of word lists. The first kind of list consisted of words considered necessary for reading on any level. There were 85 word lists of this type, and each list consisted of

EXAMPLE 4

ASSIGNMENT SHEET - READING (HS)

STUDENT'S NAME			,
LESSON NUMBER	LESSON ITEM	DATE STARTED	DATE COMPLETE
c - 9	1. Phonic Drill		~ .
	2. WTL (H-23)		
	3. Word List	<i>></i>	
	4. CPC - 21 - p. 9	, 1	<i>j</i>
C - 10	1. Phonics Drill	· .	
	2. WIL (G-23)		· · · / · · · / · · · · · · · · · · · ·
· · · · · · · · · · · · · · · · · · ·	3. Word List		
	4. CPC - 21 - p. 10	-	
C 11	1. Phonics Drill		
	2. WTL (M-23)		
	3. Word List	e	
	4. CPC - 21 - p. 11		
C - 12	1. Phonics Drill		
	2. WIL (S-23)		
	3. Word List		
ı			

EXAMPLE 5

INTEREST INVENTORY #1

Sentence Completion

- 1. I want to know your name.
- 2. I feel like going to the gym.
- 3. At bedtime I feel like going to bed.
- 4. Food I like food.
- 5. What makes me mad is she was mad.
- 6. At home I like to play football.
- 7. I am sorry I did it.
- 8. The best is and A.
- 9. Other children usually play baseball.
- 10. If my mother let me go to the park.
- 11. What I want to know is your last name.
- 12. If I had my way to the big school.
- 13. Most teachers make you do something.
- 14. Some day I will go to Washington.
- 15. When I was a little child I will suck bottle.
- 16. I am afraid of that big boy.
- 17. My best friend is Tracy Henry.
- 18. The most scary thing is a rat.
- 19. My father used to go look for a job.



EXAMPLE 5 (continued)

- 20. I miss the three words on the paper.
- 21. The children around here is bad.
- 22. The happiest time I like is to go somewhere.
- 23. I am best when I like to miss that words.
- 24. The only trouble is she is mean.

(The underlined words are those furnished by the tutee)



about 50 words to a page. (Word List No. 2 is shown as Example 6 on page 43). In using the lists, the tutor pointed to a word as the tutee pronounced it. Each word that was missed was circled. There were two ways to miss a word. First, the tutee might be unable to pronounce the word at all. Second, the tutee might say the wrong word and come back quickly and say the right word. Whatever the mistake, that word was counted as missed. The tutee continued pronouncing the words until he had missed five. Then they would stop, and the tutee would add the five words to his word bank. The tutee wrote the word on one side of his word card; on the other side of the card he wrote a sentence using the word.

There are three methods of teaching sight words: the visual, the visual motor, and the kinesthetic all were used in the program.

The visual method: The visual method consists of exposing a word again and again until the pupil learns to identify it by its general configuration. A tutee was shown a word on a flash card; then he either gave his response (saying the word aloud immediately) or else looked at the word, closed his eyes, and then said the word.

The visual motor method: If a tutee had special difficulty with a word, the tutor and tutee went to the chalk board where the tutee wrote the word on the chalk board in big bold letters. As he did so, he or she said each letter aloud as it was written. Then the tutee pronounced the entire word. In such a case, the hand worked with the eyes as the tutee tried to learn the configuration of the word.



EXAMPLE 6

		·	<u>wo1</u>	RO LIST (2)		
	61.	or	81.	said	101.	saw
	62.	two	82.	did	102.	home
	63.	man	83.	boy	103.	soon
	64.	little	84.	three	104.	stand
	65.	has	85.	down	105.	box
	66.	how	`86.	work	.106.	upon
	67.	them	87.	put	107.	first
	68.	like	88.	were	108.	came
	69.	our	89.	before	109.	girl
	70.	what	90.	just	110.	house
	71.	know	91.	here	111.	find
	72.	make .	92.	long	112.	because
	73.	which	93.	other	113.	made
	74.	much	94.	old	114.	could
. ,	75.	his	95,	take	115.	book
	76.	who	96.	cat	116.	look
	77.	an	97.	again	117.	mother
	78.	their	98.	give	118.	run
-	79.	she	99.	after	119.	school
8	30.	new	100.	many	120.	peop1e

The kinesthetic method: The kinesthetic tracing method using the Fernald Tracing Method as explained by Wilma H. Miller 13 uses the visual motor mode as well as the sense of touch. The tutor wrote the word on the chalk board. Then, using a finger as he or she pronounced the word, the tutor traced over the written letters. After demonstrating three or four times, the tutor asked the tutee to trace the word with a finger, saying each letter aloud as the word was traced. The tutor was careful to see that the tracing and the calling of the letters was synchronized. The tutee then attempted to write the word. If a mistake were again made, the tutee retraced the word, saying it aloud, and then wrote it on an index card to place in his or her word bank.

The second kind of word list starts with #1 and goes through #150. There are approximately ten words to each page. A sample of this word list is shown as Example 7 on pages 45 and 46. The list includes words that should be known by students in the second and third grades. The purpose of these words is to develop initial sounds of words. Any tutee pronouncing the words on one list correctly went on to a new word list. If a tutee missed a word, there is a space on the paper to use the word in a sentence. The word is also added to the word bank.

At various times the teams reviewed their word banks. This was done each time words were added, as part of the word list or reading activity, or as a beginning or fill-in during the tutoring period. Many flash games resulted. Teams held spelling bees, races, and chalk board sentence drills.



Wilma H. Miller, <u>Identifying and Correcting Reading Difficulties in Children</u>, The Center for Applied Research in Evaluation, Inc., 1971.

EXAMPLE 7

WORD LIST #88

	NAME OF TUTEE	DATE
1.	IDEA	
2.	INSTRUMENT	
3.	IMAGINARY	
4.	IDENTIFY	
5.	INCRED IBLE	
6.	INFLATION	
7.	INSULT	
8.	INQUIRY	
9.	ILLEGAL	
10.	INSANITY	а.



EXAMPLE 7 (continued)

1.	IDEA	r	·	ı		
			 			
2.	INSTRÜMENT					
3.	IMAGINARY					
4.	IDENT IFY		 	· · · · · · · · · · · · · · · · · · ·		
5.	INCREDIBLE					
6.	INFLATION					
7.	INSULT		 **		······································	
8.	INQUIRY		 1.6 A STEER			
9.	ILLEGAL	· · · · · · · · · · · · · · · · · · ·				
10.	INSANITY	,				



Webster Taped Lessons (WTL)

A Webster Taped Lesson (WTL) was a part of each assignment in the first phase of the tutoring program. Lessons were recorded on cassettes and used with mimeographed lesson pages. The Webster series included content in history, science and mathematics. Each subject had six accompanying lessons for each grade level. Levels two and three were used in this practicum.

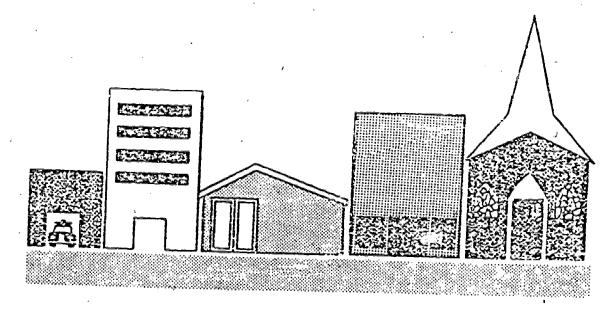
The assignment sheet directed each team to use a particular WTL activity. For example, a sample lesson might be labelled WTL-H23. The team would interpret the code to mean Webster Taped Lesson-History level two, lesson three. After completing the six lessons in level two of history, the team was directed to use lessons on level three.

Mimeographed sheets: Each WTL lesson had accompanying mimeographed sheets for the team to follow. (See Example 8, pages 48-51) The mimeographed sheets contained exercises in listening, vowel sounds, and comprehension content.

The team first had to listen as the recorded narrator dictated the lesson's story. The team followed as best they could, using mimeographed pages where the story was printed without vowels. (See Example 9, page 54) After the narrator finished his recitation, the tutee was directed to write in the missing letters. With the tutor acting as supervisor, the tutee read each word and added the necessary vowels. Positive remarks we hade by the tutor as the tutee accomplished the task. If incorrect substitutes were made, the tutor had been trained to merely state the



EXAMPLE 8



(The letters A, E, I, O, and U are missing from many of the words in the following story. To help you fill in the missing letters, study each word and each sentence. The picture and title of the story may help also.)

THE COMMUNITY: A PLACE TO LIVE AND WORK

Th__ c __mm__n_ty is a pl__ce wh re peopl__
l__ve and w__rk. You m__y th__nk __f a
c__mm__n_ty __s a pl__c __ wh__r__ p__opl__
l__v __ t__g_th__r.

P___ple d__ m__ny th__ngs t__g_th__r in a
c__mm__n_ty. S__m_ p__pl_ m__y g__ t__
th__ same st__res. S__me pe__ple m__y g__ to
th__ same ch__rch.

You m_y see m_ny oth_r pl_c_s in a c_mm_n_ty. C_n y_ name s_m_ plac_s in yo_r c_mm_n_ty?

64



There may be a bill park. Thire may be a place for your forther to play galf. There may be a place for your go for shang. There may be a school. There may be a school. There may be a fire statement of the spital. There may be a factory.

Som...tim...s we th_nk of a part of a c..ty
as a c...mm_n_ty. S_m...t_m.s w... th_nk
of a c...ty or town as a c_mm_n_ty.
S_m...t_m.s w_ th_nk of a big c..ty as a
c_mmun_ty.

What are some sm_ll c_mm_n_t__s?

Wh_t __r __s_m__ b__g c__mm__n_t__s?

Lok at a map. C_n you f_nd som__
b_g comm_n_t__s?

(Now read the story to make sure it looks and sounds correct. Compare it with the completed story on the next page.)

Lesson 3

THE COMMUNITY: A PLACE TO LIVE AND WORK

- 1. The community is a place where people live and work. You may think of a community as a place where people live together.
- 2. People do many things together in a community. Some people may go to the same stores. Some people may go to the same church.
- 3. You may see many other places in a community. Can you name some places in your community?
- 4. There may be a ball park. There may be a place for your father to play golf. There may be a place for you to go fishing. There may be a school. There may be a hospital. There may be a fire station. There may be a factory.
- 5. Sometimes we think of a part of a city as a community. Sometimes we think of a city or town as a community. Sometimes we think of a big city as a community.
- 6. What are some small communities? What are some big communities?
- 7. Look at a map. Can you find some big communities?



History 2, Lesson 3

Vocabulary Study Page

MATCHING WORDS

OKU3
left column with the best defi-
A. chart
B. places which sell things
C. move about
D. perform
E. have in mind
EANING
mean:
The state of the s
1300 marker (Markly regs) and American — de philips agricultures — describe \$4.00 million interpret. See as

FINDING DETAILS OR FACTS

(Circle letter ot best answer)

- 1. The word "community"
 - A) always means a small place
 - B) always means a large place
 - C) can have many meanings

SELECTING THE MAIN IDEA

(Circle letter of best answer)

- 1. The story told you that
 - A) some communities are better than other communities
 - B) a community is a place where people live and work together
 - C) a community is a place for stores



correct vowel; then the work continued. Having added the vowels to the story, the tutee was asked to read it aloud. Words unfamiliar to the tutee were pronounced by the tutor, then repeated by the tutee and added to his or her word bank file. A correctly printed version of the story appeared with each lesson to help the tutor check spelling and reading (see Example 8, page 48).

A mimeographed vocabulary study page also accompanied each lesson (see Example 8, page 48). This page contained short matching tests and exercises for tutees to the meanings of key words, find details or facts, and select the main idea in the lesson's story.

Phonics Drill

A phonics drill was part of every daily assignment in the first phase of tutoring. Repetition was used to drill the basic vowel, consonant, and blended letter sounds. Each drill required the tutor-tutee team first to listen to the correct pronunciation and then to compete with the narrator in a quiz-repetition of the exercise.

Seven phonics drills were used. Each drill was recorded on a cassette tape. Each taped lesson had a numbered phonics chart. (Example 9 on page 54 illustrates phonics chart.) After completing the seven tapes in numerical order, the team began with tape one again. The task was easy to accomplish, and some teams enjoyed a game of participation with the narrator on the tape. Other teams reacted to the activity with a lack of motivation or interest.



An average lesson began with one member of the team setting up the cassette player and earphones while the other member selected the necessary tape and printed card. The lesson was played first for listening. No response was asked for by the narrator. After pronouncing the drill for the team, the narrator then called for their participation in repeating the exercise. The quiz was given at a rapid pace but served to encourage the team to beat the taped response.

After listening to one taped phonics lesson, the assignment sheet was dated to show the completed activity. A note was added as to which drill had been used. In the next day's activity, another in the series of drills was attempted.

Use of Continental Press Materials

Worksheets: There were worksheets to accompany the material put out by Continental Press (CPL, CPR, CPC, CPRT); these worksheets were for Language Skills (Kit A), Reading Skills (Kit A), Comprehension, and Reading-Thinking Skills.

Worksheets began on first-grade level and went up to third-grade level.

Each worksheet was numbered for each lesson. The tutor-tutee team looked on their assignment sheet to find out which worksheet to use. The tutee completed the worksheet; then both tutor and tutee checked the work and made any corrections. (An example of a worksheet from Language Skills (Kit A) appears as Example 10, on page 55).



YELLOW CARD No. 1

0			
1	a	Õ	apple
2	ь	4	boat
3	C		cake
4	d		doll
5	e		elephant
6	, f	STATE OF THE PARTY	fox
7	g		gate
8 /	h	AAA	hand
9	. II		Indian
10	. J	3	jam
11	k		kite
12 ·	1		ladder
13	m	A	milk
14	n	9	nut
15	O	For The	octopus
16	þ	đ	pail
'A_DE1) τα	naugas Chill	a Ston by Ston	

cample 10 - Yellow, Blue (A-DE1), Language Skills - Step by Step A - removed due to right restrictions

70



Reading

After lesson number C-13 the assignment sheet began listing reading as an activity. The team worked on several assignments, however, before attempting to read from a basal book. The basal reader is the textbook forming the base from which reading skills are taught. To introduce the team to the steps in reading, a series of filmstrips was shown. The series was from Programmed Tutoring in Reading (Ebersen Enterprises, Pasadena, California). At this time, the tutors were given a kit of material which contained (a) My Word Study Kit; (b) My Cumulative Word List, a book for a word bank; (c) Tutor's Guide-Name Card an outline of steps to follow; (d) My Reading Progress, a chart for date and page numbers; and (e) five 3 x 5 cards.

The tutor-tutee team selected a basal reader. Most of them chose the low second-grade reader, Rewards (Houghton-Mifflin). Each team was directed to sit beside each other and share one book for reading: As the tutee read, the tutor listened and offered positive, esteem-building comments. When a word was misread, reading stopped for a moment. The tutee's mispronunciation was corrected. Then that word was recorded for future study, in the booklet titled, "My Cumulative Word List." As the tutee was writing, he or she spelled the word. When the miscalled word was recorded, oral reading continued until five words had been missed and recorded in the booklet. Upon recording word number five, the team stopped reading aloud and made a word card for each of the five miscalled words. A short drill was held on each word. Then the cards were filed in the tutee's word bank for study at



a leter time. The drills were not necessarily held on the day the words were missed. However, each day the words were reviewed; and, if the tutee knew the word, a "l" was marked in the corner of the card. Each day the word was missed, a zero was marked in the corner. When a word received five marks of "l," the card was removed from the folder. If a word received five marks of "0," the tutor asked the teacher for help and direction. Some teams read an entire story without missing a single word. However, in such instances, or when a tutee missed fewer than five words in each story and had finished the stories in a basal reader, a comprehension check was first made to determine if the tutee had a knowledge of what had been read. If a basic knowledge of the story and the basal reader was exhibited, the team went to a higher level book.

Student Rap Sessions

On Friday of each week the tutors and tutees met with their respective project teachers to talk about what had happened in class during the week. They also discussed some of their likes and dislikes about the program and shared suggestions for improving the program. For example, at one of the sessions, a tutor explained how she had enlisted suggestions from a teacher outside the program about some games that could be played with the tutee. The games stressed the points in reading to be covered by the tutors but made the learning experience more fun. One of the games involved several tutor-tutee teams. Word cards were mixed up, and, as a tutor called words, two or more tutees would see who could find the word card first.

From the sessions it was discovered that both tutors and tutees enjoyed the tapes and following the directions of the narrator. They also made a game of this. After listening to the narrator the first time, they would try to stay ahead of him on the next listening. The students enjoyed competing and would arrange matches between tutor and tutee groups. The teams also liked the Webster Taped Lessons and listening with the headphones.

In general, the rap sessions revealed that the tutors liked the idea of being able to help a student who could not read as well as they. Simultaneously the tutees were gratified by the individual attention and being able to achieve success on their level of reading.

Complaints were also aired at the rap sessions. Both groups complained because there was not always a tape player available when an assignment sheet called for one. Most complaints, however, involved personality conflicts and adjustments. Some of the tutees thought that the tutors were working them too hard and were "too bossy." The tutors complained that the tutees did not want to do anything except listen to tapes and not do any work. In some instances a tutor and tutee did not get along and complained about each other. One particular tutor grumbled about every tutee assigned to her and had problems adjusting to the situation. One student said that he thought the whole idea was silly and he did not want to participate. He was removed from the group and placed in basal reading. Within three days, however, he requested to be allowed to rejoin the group and became an excellent tutor.

The mechanics of handling the material and returning it to the correct place when class was over became a problem. At the suggestion of the



and returned to the proper place by the students. Nothing satisfactory was ever worked out, but the students were aware of the problem and were willing to discuss it.

One of the tutees complained that the lessons were so easy he was not learning anything. The tutors discussed this and solved the problem by placing this particular tutee in lessons bout midway through the assignment sheet. He was happy and worked diligently the remainder of the project.

Eventually, from their observation and participation in the rap sessions, the project teachers thought both the tutors and tutees were gradually losing interest in the project. This became a point for discussion during the weekly meeting between the involved teachers and the principal. The project teachers expressed the belief that although there was much good accomplished during the rap sessions, many of them turned into "gripe" sessions. They acknowledged, however, that teachers with more experience in leading group discussions might have increased the productivity of the rap sessions.

The rap sessions were worthwhile to the writer. They gave him more of a feel for the activities in the classroom. The information gained from the sessions allowed the principal and the two project teachers to make some important decisions when they conferenced each week.



Conferences between Principal and Project Teachers

The principal and the project teachers conferred each week to review the program and make any changes deemed necessary for the betterment of the project. There was no pre-determined amount of time such conferences would last. The length depended upon what had happened during the week. Some lasted as little as five minutes; others ran as long as an hour.

The teachers were concerned about the lack of control in the classroom. In the past they had complete control of their classes, and it
bothered them that there was so much moving around and noise during the
tutoring period. They were counseled and reminded that their role was a
passive one--the students and the material were to do the actual teaching.

At each conference the project teachers were reminded of their own differences in teaching and that they were to make a conscious effort to make the learning climate in each classroom as nearly equal as possible. Each of them made a conscientious effort to follow through on this.

These conferences also made final decisions upon issues raised in the student rap sessions. At one of the conferences, for example, the decision was made to allow the tutor who wanted to cuit to do so; a later conference decision allowed him to return when he so requested. Another decision made was to approve the tutors' suggestion of placing the bored tutee in more advanced work. A more difficult problem to work out was the tutor who could not get along personally with any tutee assigned to her. After much trial and error, she was placed with another tutor to work with a single tutee. This worked. As long as she worked in a group of three, she did an excellent tutoring job.



61

Problems with material and equipment were also discussed. When a recorder broke, the DISD Instructional Facilitator was notified. If there was a shortage of tapes or duplicated material, he was also in formed. In every instance he rushed the needed material to the project teachers so that very little tutoring time was lost.

At the conference during the second week in January, 1976, the teachers reported that the interest and enthusiasm of the tutors was lagging. It was decided that rather than have rap sessions the next two Fridays, films depicting the feelings of a rejected child would be shown. The purpose was to reinforce in the tutors the idea of their importance to the tutee. On Janary 9, 1976, the film, Cipher in the Snow, was shown to the tutors and the following Friday they saw Johnny Lingo. A discussion followed the showing of each film. The tutors grasped the meaning and made intelligent comments about how the rejected person in the film could have been helped by receiving more positive attention from those around him. According to the observations of the project teachers, the tutors assumed a renewed interest in their tutees after viewing the film. The films were not shown to the tutees.

A decision had to be made about when to administer the LRT posttest. The proposal had indicated that the tests would be given the first week in May, 1976. However, the District had scheduled the last week in April and the first week in May for system-wide administration of the ITBS. Other complications arose. Easter vacation was scheduled for the week of April 12 through April 16, and on April 19 and 20 the students did not come

to school as those days had been scheduled for Staff Development. That left the students with only three days of tutoring instruction between April 9 and the second week in May, when the tests could be administered. The principal and project teachers thought it better to administer the posttest the week of April 5 before the students went on vacation rather than waiting until the second week in May. This was done.

The conferences with the project teachers were very helpful to the principal. Through the information received in the conferences he was able to keep abreast of the tutoring project and to determine its direction.

LIMITATIONS AND SOLUTIONS

Lack of Random Sampling for Selection to Groups

In the proposal for this practicum, the writer listed five possible limitations that might affect the validity of the data obtained. The first of these limitations was that the experimental and control groups were more or less "captive" groups. They were students assigned to sections according to reading skills as determined by the Houghton Mifflin Informal Reading Inventory Te t. There was no random sampling of students within the groups. Two means were followed to overcome this limitation.

First, the author referred to Campbell and Stanley¹⁴ (Table 2, page 210). They showed a quasi-experimental design that would work well with the type of situation used in this practicum. It was a blocked design called "Non-equivalent Control Group Design." According to Campbell and



Designs for Research, Skokie, Illinois, Rand McNally, 1963.

Stanley, the design is strong when individuals are not selected into a group at random. This design was used.

Second, to further substantiate the validity of the control and experimental groups, a ratio <u>t</u>-test was run on the groups. The results revealed that there were no significant differences in the groups, based on pretest raw scores in the area of vocabulary or comprehension, on either the GMRT or the ITBS. The assignment of treatment to one intact group or the other was random.

Contamination and the Hawthorne Effect

Because all the groups were from the same school, there was the risk of contamination between groups. In addition, the Hawthorne effect had always to be considered.

The principal/author discussed with all teachers of the involved students the possibility of contamination. Their combined, close observation did not show any incidence of contamination. One reason for the lack of it might have been that most students of Harry Stone School have been enrolled in inner-city schools since kindergarten and are used to participating in various projects. They are also used to being tested twice per year. Experience in observing these students led one to believe that one more time did not seem to make much difference to them. As a result, the initial excitement and intensity of interest was usually short-lived. From observation, that was what happened in this case.

The same factors mentioned in the previous paragraph would apply to the Hawthorne Effect. In a short-term project, a Hawthorne Effect could



be a real/limitation. With a project extending over a full school year, there was less chance of its materially changing the final outcome of the practicum.

Use of Two Teachers

The fact that there would be differences in the teachers chosen to conduct the project was suggested as a possible limitation. Effects were controlled as much as possible by open discussion during the weekly meetings between the principal and the two teachers.

Limited Number of Students in Project

The principal/writer feared that the limited number of students involved in the practicum might be a possible limitation. The DISD R & E Department was consulted about the possibility. Their response was that if the project were controlled properly and the correct design for evaluation were chosen, the number of students used in the project would be adequate.

ADDITIONAL DATA

The DISD criterion-referenced test, Survey of Reading Skills (SRS; defined on page 66) was administered to each of the four groups as a pretest during the second week of October, 1975 and as a posttest during the second week in April, 1976.

Level VI of that test was administered to the tutor experimental and control groups while Level II was administered to the tutee experimental and control groups.



The information revealed on the SRS was not used in choosing the method of instruction to be used in the practicum. In other words, the project teachers and the tutors did not teach to the student's weaknesses as revealed by the SRS.

Tutor Experimental Group

The writer was curious as to whether or not the pre-and posttest would show an improvement in using nothing but the programmed material for the experimental groups and the regular basal reading program for the control groups.

The tutor experimental group showed strength in Base Words, Compound Words, and Common Syllables on both the pre-and posttest. In the posttest the graph lines shown in Graph I (page 66) are about the same. Questions seven through 15 reveal a slight improvement with the exception of number 13 (Author's Purpose), where the posttest score fell below the pretest score. The author would have to say that the programmed material did not increase the scores an appreciable amount for the tutor experimental group.

Tutor Control Group

In both the pre-and posttest the tutor control group showed strength in Base Words, Compound Words, and Common Syllables. Weaknesses was revealed in all other areas. The dotted line representing the posttest scores in Graph II (page 68) shows that the control group made progress in all categories with the exception of question number seven (Meaning from Context) where the score remained the same for both the pre-and posttest.

GRAPH I

Survey of Reading Skills Level VI
Tutor Experimental (High Readers)

Mean Scores

Pretest

Posttest ----

3:						,	Number	Correc	E
	Skills	Ι	tem	Numbe	rs	Criterio	on Not Met	Crite	rion Met
1.	Words Strange in Pri	nt	1	- 8		1 2	3 4 5	6	7 8
2.	Phonology		′ 9	- 18		1 2 3	4 5 6 7	8	9 10
3.	Base Words		19	- 30	-	1234	5678	35-22	0 11 12
4.	Compound Words		31	- 34		1	2 .	3	
5.	Common Syllables		35	- 42		1 2	3 4 5	6	8
6.	Syllables	•	43	- 46		· 1	T	3	4
7.	Meaning from Context		47	- 50		1),2	3	4
8.	Word Meaning		51	- 58		1 2/	3, 4 5	6	7 8
9.	Paragraph Meaning	59_65	77	83 89	95	1 (2	3 4 .	5	6
10.	Punctuation	60 66	71	84 90	96 +	1 2	3 4	5	6
11.	Type of Material	61 67	72	78 85	91	1 /2	3 4	5	6
12,-	Reading for Detail	62 68	73	79 92	97	1 2	3 4	5	<i>c</i> 6
13.	Author's Purpose	63 74	80	86 93	98	1 . 2	3 4	5	6.
14.	Characterization	64 69	75	81 87	99	14 2)	3 4	5 (6
15.	Drawing Conclusions	70 76	82	88 94	100	1/2	3 4	, 5	·6

The gain was slight in all the other areas but showed more gain than did the tutor experimental group.

The author concluded that the programmed reading material used by the tutors did very little in raising the scores of the participants on the SRS.

Tutee Experimental Group

Using Level II of the SRS, the tutee experimental group met the criterion for Level II students in 13 of the 18 questions on the pretable the questions on which the criterion was not met were number three, (Vowel Sounds), number four (Vowel Elements), number five (Special Vowel Rules), number ten (Plural Forms), and number 17 (Sequence of Events).

The posttest graph line shown in Graph III (see page 69) shows that the mean scores of the students met the criterion in each of the questions with the exception of number 17; on that question some gain was made. The posttest scores by the tutee experimental group dropped below the pretest scores on only three of the questions. The posttest score was lower on question number 11 (Homonyms, Antonyms, Synonyms), on question number 12 (Word Meaning), and on number 13 (Sentence Meaning).

The writer concluded that a very definite gain was made in the mean scores of the tutee experimental group when the pre-and posttest scores were compared. Of course, he realized that the test was on Level II and that there was more room for gain for the tutees than for the higher reading group. However, the writer concluded the gains were valid.



GRAPH II

Survey of Reading Skills Level VI Tutor Control (High Readers)

Mean Scores

Pretest _____

	; ; ;			Correct
	Škills	Ttem Numbers	Criterion Not Met	Criterion Met
1.	Words Strange in Pr	int 1 - 8	1 2 3 4 5	6 7 8
2.	Phonology	; 9 - 18	1 2 3 4 5 6 7	8 9 10
3.	Base Words	19 – 30	12345678	910 11 12
4.	Compound Words	31 - 34	1 2	3 >3.
5.	Common Syllables	35 - 42	1 2 3 4 5	5 8
6.	Syllables	43 - 46	1 25	3 4
7.	Meaning from Context	47 - 50	1 2	3 4
8.	Word Meaning	51 - 58	1 2 3 4 5	6 7 8
9.	Paragraph Meaning	59 65 77 83 89 95	1 2 3 4	5 6
10.	Punctuation -	60 66 71 84 90 96	1 2 3 4	5 6
11.	Type of Material	61 67 72 78 85 91	1 2 (3 4	. 5 6
12.	Reading for Detail	62 68 73 79 92 97	1 2 3 4	5 6
13.	Author's Purpose	63 74 80 86 93 98	1 (2 / 3 4	5 6
14.	Characterization	64 69 75 81 87 99	1 2 3 4	· 5 6
15.	Drawing Conclusions	70 76 82 88 94 100	1 2 3 4	5 6

GRAPH III

Survey of Reading Skills Level II Tutee Experimental (Low Readers)

Mean Scores

Pretest _____

		Number Co	rrect
Skills	Item Numbers	Criterion Not Met	Criterion Met
1. Consonant Sounds	p.1 - first 6 items	1 2 3 4	5 6
2. Consonant Elements	p.1 - last 4 items & p.2 - first 4 items	1 2 3 4 5	6 7 8
3. Vowel Sounds	p.2 - last 4 items	1 2	3 4
4. Vowel Elements	p.3 - all 8 items	1 2 3 4 5	6 7 8
5. Special Vowel Rules	p.4 - all 8 items	1 2 3 4	6 7 8
6. Syllables	p.5 - first 4 items	1 2	37: 4
7. Compound Words	p.5 - last 4 items	1 2	3 \ 4
8. Vocabulary	p.6 - all 8 items	1 2 3 4 5	6 7 8
9. Common Syllables	p.7 - all 8 items	1 2 3 4 5	6 7,0,7 8
O. Plural Forms	p.8 - first 4 items	1 2	3 4
1. Homonyms, Antonyms, Synonyms	p.8 - last 6 items	1 2 3 4	5 6
2. Word Meaning	p.9 - all 8 items	1 2 3 4 5	6, 7
3. Sentence Meaning	pl10 - all 4 items	1 2	3 4
4. Meaning from Context	p.11 - first 4 items	1 2	3 (4
. Paragraph Meaning	pp 12-15 - first item	1 2	3
Drawing Conclusions	pp 12-15 - second item	1 2	4 أيليد
. Sequence of Events	pp 12-15 - last item	1 2	3 4
. Following Directions	p.11 - last 4 items	1 2	3 3

Tutee Control Group

Graph IV (see page 71) depicts the mean scores as shown by the preand posttest of the tutee control group. In the pretest the criterion
was met on 14 of the 18 questions. The criterion was not met on question
number three (Vowel Sounds), question number ten (Plural Forms), question
number 11 (Homonyms, Antonyms, Synonyms), and question number 17, (Sequence of Events). The mean posttest scores showed definite improvement
in all questions except number seven (Compound Words), number 12 (Word
Meaning), and number 13 (Sentence Meaning). On these questions the posttest scores remained the same as those of the pretest. On no question did
the posttest mean drop below that of the pretest mean.

The author concluded that definite improvement had been made by the tutee control group based on the mean pretest and posttest scores. Again it was reognized that the test was on Level II, but the original reading level was second grade so the improvement was valid.

<u>Summary</u>: To summarize the author's opinion of the graphs, neither the tutor experimental group nor the tutor control group made a significant gain as based on the mean scores of SRS.

Graphs III and IV showing the mean pre-and posttest scores for the tutee experimental and control groups showed a definite improvement. It is emphasized that the data from the SRS are not a part of the evaluation. They were shown to determine if an increase in reading skills would result from either the programmed material used by the experimental groups or the regular basal reading program as used by the control groups without teaching



GRAPH IV

Survey of Reading Skills Level II Tutee Control (Low Readers)

Mean Scores

Fretest _____

Posttest----

	•	Number Co:	rrect
Skills	Item Numbers	Criterion Not Met	Criterion Met
1. Consonant Sounds	p.1 - first 6 items	1 2 3 4	5 (16
2. Consonant Elements	p.1 - last 4 items & p.2 - first 4 items	1 2 3 4 5	6 7 8
3. Vowel Sounds	p.2 - last 4 items	1 2	3, 4
4. Vowel Elements	p.3 - all 8 items	1 2 3 4 5	8 7 8
5. Special Vowel Rules	p.4 - all 8 items	1 2 3 4 5	6.13 8
6. Syllables	p.5 - first 4 items	1 2	3 4
7. Compound Words	p.5 - last 4 items	1 2	3 4.4
8. Vocabulary	p.6 - all 8 items	1 2 3 4 5	6 7
9. Common Syllables	p.7 - all 8 items	1 2 3 4 5	6/7.8
O. Plural Forms	p.8 - first 4 items	1 2	3 4
l. Homonyms, Antonyms, Synonyms	p.8 - last 6 items	1 2 3 4	5) 6
2. Word Meaning	p.9 - all 8 items .	1 2 3 4 5	6 7
3. Sentence Meaning	p.10 - all 4 items	1 2	3 /4
. Meani from Context	p.11 - first 4 items	. 1 2	3 (4
. Paragraph Meaning	pp 12-15 - first item	1 2	3 \\ 4
. Drawing Conclusions	pp 12-15 - second item	1 2	<u>ع</u> لِيٰنِهِ .
. Sequence of Events	pp 12-15 - last item	1 2	3 4
Following Directions	p.11 - last 4 items	1 2	3****

to the weakness of any of the groups except in an incidental way. It was done merely to satisfy the writer's curiosity

EVALUATION

Analysis of Data, Objective One

One of the objectives of the practicum was to raise by eight months the reading level of 30 (60%) of the students in the experimental groups. Specifically 15 of the students in the tutor group and 15 of the students in the tutee group would have had to increase their reading level by eight months for the practicum to be counted a success. The posttest grade equivalent was compared to the pretest grade equivalent taken from the Gates-MacGinitie Reading Tests (GMRT) to determine if this had been done. In reality, the practicum was only six months duration, so six months' gain would have shown one month gain for one month of treatment.

Tutor Experimental Group-Vocabulary: Table 2 (page 74) reveals that with an N of 24, 20 students progressed, two regressed, and the scores of two remained the same when the pretest and posttest vocabulary scores were compared. Thirteen (54%) met the criterion established in the practicum of gaining eight months. Eighteen of the students (75%) gained six months, or one month's gain for each month of treatment. The mean gain of the group was .9 years, while the highest gain made by a student was 3.0 years.

The range of the differences between the pretest and posttest was from minus 1.0 to a high of 3.0, having a spread of 4.0 years. The pretest scores ranged from 4.4 to 9.2, a spread of 4.8. The posttest scores showed a range from a low of 4.8 to a high of 9.9, a spread of 5.1 years.



The tutor experimental group showed only 13 students (54%) making a gain in vocabulary of eight months or more, so the treatment was not successful when compared to the established criteria of 15 students (60%) gaining eight months. However, as suggested, since the practicum treatment lasted only six months and the more realistic criterion of six months' gain for six months' instruction might be applied, it should be noted that 18 (75%) of the students did meet that criterion. In that light the treatment might be considered successful.

Tutor Experimental Group-Comprehension: Table 2 further reveals that among the same students (N=24) 18 students progressed, four regressed, and two remained the same with regard to scores on the Gates-MacGinitie comprehension subtest. Sixteen of the students (67%) gained eight or more months during the course of the practicum. Sixteen (67%) gained one month or more for each month of treatment. The mean gain in comprehension for the group was 1.88, while the biggest gain made by a student was 6.4 years.

The differences in the pre-and posttest scores ranged from a low of minus 1.0 to a high of 6.4, a spread of 7.4 years. The pretest scores ranged from a low of 4.2 to a high of 11.9, a spread of 7.7 years. The range of the posttest scores was from a low of 4.7 to a high of 11.9 years, a spread of 7.2 years.

Since 16 (67%) students among the tutor experimental group made a gain of eight months or more in comprehension, the criterion of 60 percent as set forth was met and surpassed; the treatment was, therefore, considered to have been successful.



TABLE 2

Tutor Experimental (High Readers)
Gates MacGinitie Reading Test
Grade Equivalent Scores
(N=24)

0								
	7	/ocabulary			Comprehension			
I.D. Numbers	Pretest	Posttest	Diff.	Pretest.	Posttest	Diff.		
135728	6.0	7.6	1.6	5.6	7.1	1.5		
135477	5.8	4.8	-1.0	5.1	4.7	4		
180191	4.5	7.2	2.7	5.3	7.6	2.3		
246065	4.4	5.0	.6	4.9	5.1	.2		
135157	8.4	8.0	4	6.8	9.5	2.7		
135069	5.5	5.5	.0	4.8	6.1	1.3		
226164	4.7	5.5	.8	5.1	7.6	2.5		
135341	6.8	7.2	.4	6.8	7.6	.8		
135377	6.8	7.6	.8	5.8	7.1	1.3		
135690	4.7	6.0	1.5	5.8	5.3	5		
135055	6.5	9.5	3.0	11.9	11.9	.0		
135691	4.8	5.5	• 7	5.8	8.1	2.3		
135078	6.0	6.8	.8	7.1	10.6	3.5		
135348	5.8	6.5	.7	5.6	11.6	6.0		
135080	5.5	6.2	7	5.8	8.8	€ 2.0		
135081	4.5	6.8	1.3	4.2	10.6	6.4		
135093	6.2	. 6.2	.0	5.3	9.5	4.2		
135094	8.0	8.8	.8	7.1	,11.9	4.8		
135096	6.8	9.5	2.7	7.6	11.6	4.0		
135643	6.2	7.7	1.0	7.1	5.1	-1.0		
135321	6.0	6	.2	6.1	5.5	6		
	4a - F - F5	: =			·			
,			н ^а	N.	: <u>*</u>			
	, ,	0	0.0	1		,		
C	,		89					

ERIC Provided by ERIC

TABLE 2 (continued)

1.						
I.D. Numbers	Vo Pretes t	cabulary Posttest	Diff.	Pretest	Posttest	Diff.
353004	5.2	6.2	1.0	4.8	5.3	5
135101	9.2	9.9	. 7	7.6	8.8	1.2
135108	6.2	8.0	1.8	10.6	10.6	.0
Total			22.4			45.0
Mean Gain			.9			1.88
:	-					
,						
	*					.
			,		:	
p.		90			ا در	

Tutee Experimental Group-Vocabulary: Table 3 (see page 77) reveals the tutee experimental group (N=21) scores on the Gates-MacGinitie Vocabulary and Comprehension subtests. On the former subtest, pre-test-posttest scores show that 18 students progressed, two regressed, and one remained the same. Eleven (52%) of the students gained eight months or more during the practicum. Fourteen (67%) gained one month or more for each month of tutoring instruction. The mean gain in vocabulary by the group was .8 (eight months), and the highest gain made by a student was 2.5 years.

The differences in the pre-and posttest scores ranged from a low of minus 0.5 to a high of 2.5, a spread of 3.0 years. The pretest scores ranged from a low of 1.5 to a high of 3.7, a spread of 2.2 years. The posttest scores ranged from a low of 1.6 to a high of 5.1, a spread of 3.5 years.

Since the tutee experimental group showed only 11 students (52%) making a gain of eight months or more in vocabulary, the criterion as set 13rth was not met; the treatment was, therefore, not considered to have been successful. Again, however, it might be noted that 67 percent of the students did gain one month or more per one month of instruction when the six-month (rather than eight month) treatment is taken into consideration; and in that light again, the treatment might be considered successful.

Tutee Experimental Group-Comprehension: Pretest-posttest scores in Table 3 (see page 77) reveal that of the 21 students, 12 progressed, seven regressed, and two remained the same on the comprehension subtest. Six of the students (29%) gained eight months or more during the practicum. Eight

TABLE 3

Tutee Experimental Group (Low Readers)
Gates-MacGinitie Reading Test
Grade Equivalent Scores
(N=21)

	Vc	cabulary		c	omprehension	
I.D. Numbers	Pretest	Posttest	Diff.	Pretest	Posttest	Dif
135223	2.4	3.6	1.2	2.7	4.45	1.8
131666	3.5	3.9	.4	3.4	1.7	-1.7
135479	3.2	3.9	.7'	3.9	3.9	
180077	2.4	3.0	.6	2.7	კ.4	. 7
127579	3.1	4.6	1.5	3.7	5.0	1.3
135421	2.6	3.1	.5	1.7	2.5	.8
281405	2.8	2.7	1	2.6	. 2.6	
135247	3.6	4.6	1.0	4.9	5.8	.9
135708	2.7	3.5	.8	3.1	2.9	2
311578	2.9	4.0	1.1	3.6	4.5	. 9
135473	3.7	3,2	5	2.9	1.9	-1.0
138704	3.4	4.6	1.2	2.9	3.5	.6
135385	1.6	2.2	.6	2.2	2.4	.2
135692	2.4	2.4	.0	2.6	2.7	.1
135399	1.5	1.6	.1	3.0	2.0 -	-1.0
195821	2.9	3.7	.8	3,9	2.2	-1.7
135762	2.7	4.4	1.7	3.6	4.9	1.3
<u>1</u> 35053	2.2	2.6	.4	2.4	1.9	- <u>.</u> 5
125271	1.5	4.0	å 2.5°	2.4	2.9	.5
		-	•			ا د ن
					•	· :
a l	.,	, *				•
· .	*		92	, ,	\	+

TABLE 3 (continued)

	Vo	gcabulary		co	mprehension	
I.D. Numbers	Pretest	Posttest	Diff.	Pretest	Posttest	Diff.
135429	3.6	5.1	1.5	3.1	3.0	1
135393	3.5	4.4	.9	4.3	4.5	. 2
Total			16.9	4		3.1
Mean Gain			.8		-	.1-
		, '		' .		
				, 1.		į
•	•	.`				7
1		7	4 A		,	,
			4			ı
	-		•			
	s'			•		•
	. /			4.		•
		-	-	3	• .	
		÷ ;		• *		
			*	,	2)	
	•			<i>√</i>		,
,					,	
		,	.	ù		٠ ١
	,					
	, 's	-	• -		. •	, ,
<i>f</i> .	,		المواد دد			, ,
	•	7 J	* 5		\$ \$\frac{1}{2}\$	* 2 *
	·	,	. 93	· · · · · · · · · · · · · · · ·		: :
	.	•	·			

ERIC

(38%) of the students gained one month or more for each month of instruction. The mean gain in comprehension for the group was 0.1 with the highest gain being 1.8 years.

The differences between the comprehension pre-and posttest scores ranged from a low of minus 1.7 to a high of 1.8, a spread of 3.5 years.

The prete : scores ranged from a low of 1.7 to a high of 4.9, a spread of 3.2 years. The posttest scores ranged from a low of 1.7 to a high of 5.8, a spread of 4.1 years.

The tutee experimental group comprehension pretest-posttest scores thus showed six students (29%) making a gain of eight months or more in comprehension during the period of the treatment. The criterion of 60% gaining eight months was therefore not met, and the treatment was thus not considered to have been successful. Even when the single criterion of six months' gain for six months' treatment is applied, only 38% of the students achieved that gain, and the practicum treatment could not be considered successful even in that light.

Summary of Objective One: The Gates-MacGinitie pretest-posttest scores revealed that the tutor experimental group on the vocabulary subtest, and the tutee experimental group on both the vocabulary and comprehension subtests failed to meet the criterion as set forth. The practicum treatment was, therefore, considered not to have been successful. On the other hand, the comprehension subtest scores of the tutor experimental group met the criterion set forth and was, therefore, considered to have been successful. However, since the treatment effected gains in only

one of four sets of subtests, thus attaining the established criteria in only one of four instances, objective one was considered not to have been reached.

As suggested previously, however, the scores might validly be considered in the light of the six months' rather than eight months' duration of the treatment and the concomitant criterion of 60 percent of the students gaining one month per one month of instruction. The tutor experimental group (vocabulary subtest) had 18 students (75%), the tutor experimental group (comprehension subtest) had 16 students (67%), and the tutee experimental group (vocabulary subtest) had 14 students (67%) making gains of one month or more for each month of tutoring instruction. Considering that the students were from an inner-city school and were very low in reading, this amount of gain certainly pleased the author.

Analysis of Data, Objective Two

Objective two of the evaluation hypothesized that the experimental groups would show greater achievement gain than the control groups. The gains were measured from the pre-and posttest raw score data for vocabulary and comprehension from the Gates-MacGinitie Reading Tests (GMRT) and the Iowa Tests of Basic Skills (ITBS). The raw score data are shown in Appendices O through V.

Statistical Design: In considering the type of statistical design, the Campbell and Stanley¹⁵ monograph was consulted. That monograph uggested that a quasi-experimental design would work well with groups

¹⁵ Ibid-Table 2, page 210.

that might be non-equivalent. Campbell and Stanley advised using analysis of covariance when regression might be a threat to the internal validity of the project. 16 When t-tests were run on pretest raw scores they showed there was no significant differences in the groups. However, it was decided that even though the groups were initially similar, the analysis of covariance would be the best design to use because of the possibility that one group would learn faster than the other. That decision was buttressed by an understanding that the analysis of covariance would give more power in the analysis of the results of the treatment. The steps outlined by Winer 17 were followed to find F statistic. The F statistical tables were consulted to find the level of significance.

The hypotheses were stated as null hypotheses, that is, there would be no difference in the achievement of the experimental and control groups. The null hypotheses would be rejected at the .05 level of significance.

Handling of the Data: Computer cards were punched to reflect the data shown in Appendices, O, P, Q, R, S, T, U, and V. When this was completed, the cards were taken to the DISD Department of Research, Evaluation, and Information Systems (R & E). A senior evaluator determined the type of data needed for the analysis of covariance and programmed the computer so this information could be obtained. The cards were run through the programmed computer, which gave a printout showing summary statistics for each group, test, and subtest. The printout also gave the analysis of



¹⁶Ibid - page 219.

¹⁷B. J. Winer, <u>Statistical Principles in Experimental Design</u>, New York: McGraw-Hill, 1962, (pp. 578-594).

covariance summary results for the group, test, and subtest. The summary results are shown in Tables 4 through 11. The analysis of covariance results is shown in Tables 12 through 20.

Summary of Objective Two: The F statistic showed that the experimental groups did not gain more at the .05 level of significance than did the control groups in any category tested. In two categories the control groups gain was significant at the .05 level over the gain of the experimental groups.

The criteria as set forth in objective two were thus not met; therefore, the practicum was not considered to have been successful.

It might be well to point out at this point that Harry Stone School concentrated on a non-graded basal reading program during the 1974-75 and the 1975-76 school year. The median reading percentile rank for the sixth-grade students in 1974 was 8.75. Based on the reading scores on the Iowa Tests of Basic Skills administered during the spring of 1976, the median reading percentile rank had increased to 12.0. The median percentile rank was based on large-city norms.

It is true that the percentile rank was still very low, but progress had been made and that was encouraging. Perhaps the upgrading of the basal reading program caused the control group to do as well or better than the experimental group. This is merely a theory. There are no hard statistics to show that the basal reading program was the reason the control group did well in comparison with the experimental group.

TABLE 4

Tutee Summary Statistics
Gates-MacGinitie Reading Tests
Raw Scores

Vocabulary

	er gjo	Experimental	Control °
Dependent Variabl	e Mean	32.10	32.91
Covariate Mean		24.86	26.59
Group Beta	n i	.5917	.7296
Standard Deviatio	n-Dependent Va	ariable 6.65	6.19
Standard Deviation	n-Covariate	6.61	4.40
Adjusted Means	d.	32.66	32.37
Total Beta	3	.6356	

Note: Since the adjusted means of the experimental group was larger than that of the control group, any difference in the groups shown by F was in favor of the experimental group.

TABLE 5

Tutor Summary Statistics
Gates-MacGinitie Reading Tests
Raw Scores
Vocabulary

		Experimental	Control
,		r ÷	
Dependent Variable Mean		34.93	35.42
Covariate Mean	A STATE OF S	31.50	31.23
Group Beta		.6758	.3944.
Standard Deviation-Depen	dent Variable	a 4.32	3.21
Standard Deviation-Covar	iate	4.53	5.22
Adjusted Means		34.85	35.49
Total Beta			5097
			Harris Harris Committee Co

TABLE 6

Tutee Summary Statistics Iowa Tests of Basic Skills Raw Scores Vocabulary

	Experimental	Control
Dependent Variable Mean	12.10	13.73
Covariate Mean	10.33	9.86
Group Beta	4.3620	.0496
Standard Deviation-Dependent Variable	4.10	3.61
Standard Deviation-Covariate	4.12	3.51
Adjusted Means	12.05	13.77
Total Beta	1844	

TABLE 7

Tutor Summary Statistics Iowa Tests of Basic Skills Raw Scores Vocabulary

<u> </u>	A STATE OF THE STA		er sur	
	E	xperimental /	Control	
		7		
Dependent Variable Mean		31.17	32.31	
Covariate Mean		27.75	26.96	
Group Beta		8603	.6850	
Standard Deviation-Deper	dent Variable	6.30	4.53	C.
Standard Deviation-Covar	iate	6.47	os 5. í 1	
Adjusted Means	and the second s	30.84	32.61	:
Total Beta		.789	94	u" .

TABLE 8

Tutee Summary Statistics Gates-MacGinitie Reading Tests Raw Scores Comprehension

	Experimental	Control
Dependent Variable Mean	24.38	28.91
Covariate Mean	23.19	22.64
Group Beta	. 8046	.3314
Standard Deviation-Dependent Variable	9.45	5.78
Standard Deviation-Covariate	7.29	6.56
Adjusted Means	24.21	29.07
Total Beta	.5873	



TABLE 9

Tutor Summary Statistics
Gates-MacGinitie Reading Tests
Raw Scores
Comprehension

	Experimental	Control
Dependent Variable Mean	43.67	44.08
Covariate Mean	38.79	40, 38
Group Beta	.5136	.3424
Standard Deviation-Dependent Variable	5.29	3.90
Standard Deviation	5.47	5.08
Adjusted Means	44.02	43.75
Total Beta	.4307	

Note: Since the adjusted means of the experimental group was larger than that of the control group, any difference in the groups shown by F was in favor of the experimental group.

TABLE 10

Tutee Summary Statistics.
Iowa Tests of Basic Skills
Raw Scores
Comprehension

*				Experiment		Control .
Depend	dent Variabl	e Mean		22.57		20.91
Covar	iate Mean	•		18.10		18.77
Group	Beta	•	•	.5533		.2823
St <i>a</i> nd:	ard Deviatio	n-Dependent	. Variable	8.02	· •	8.00
Standa	ard Deviatio	n-Covariate		6.27	. . .	4.64
Adjust	ed <means< td=""><td>-1.</td><td></td><td>22.73</td><td>•</td><td>20.76</td></means<>	-1.		22.73	•	20.76
Total	Beta .".		- 1		.4545	and the second s

Note: Since the adjusted means of the experimental groups was larger than that of the control group, any difference in the groups shown by F was in the experimental group.

TABLE 11
Tutor Summary Statistics
Iowa Tests of Basic Skills
Raw Scores
Comprehension

	i	Experimental	Control
Dependent Variable Mean		41.71	44.31
•		41.71	44.21
Covariate Mean		39.50	38.73
Group Beta		.8877	-4682
Standard Deviation-Dependent Var	iable	10.51	7.54
Adjusted Means	in the second se	8.77	7.81
Total Beta	6	.69:	36

TABLE 12

Analysis of Covariance Summary Results Gates-MacGinitie Reading Tests Tutee Raw Scores Vocabulary

Source of Variation	Sum of Squares	Mean Square		Degre e of Freedom	F
Within Groups	1172.61	29.315	a,	. 40 .	
Between Groups	0.870	0.870		1	.030

The hypothesis tested was that there was no difference at the .05 level of significance in the mean reading vocabulary achievement of the tutee experimental group and the tutee control group as measured by preand posttest raw scores on the Gates-MacGinitie Reading Tests. Absolute value of F (.030) is less than the critical value of F (4.08); therefore, the hypothesis that there would be no significant difference in groups was accepted.

Analysis Covariance Summary Results Gates-MacGinitie Reading Tests Tutee Raw Scores

TABLE 13

Vocabulary

Source of Variation	Sum of Squares	Mean Square	Degree of Freed o m	F
Within Groups	388.76	8.272	 47	
Between Groups	, 5.166°	5.166	1	.625

The hypothesis tested was that there was no difference at the .05 level of significance in the mean reading vocabulary achievement of the tutor experimental group and the tutor control group as measured by preand posttest raw scores on the Gates-MacGinitie Reading Tests. Absolute value of F (.625) is less than the critical value of F (4.08); therefore, the hypothesis that there would be no significant difference in groups was accepted.

TABLE 14
Summary of Covariance Summary Results
Towa Tests of Basic Skills
Tutee Raw Score
Vocabulary

Source of Variation	Sum of Squares	Mean Square	Degree of Freedom	F
Within Groups	589.79	14.745 .	• 40	
Between Groups	31.611	31.611	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2.14

The hypothesis tested was that there was no difference at the .05 level of significance in the mean reading vocabulary achievement of the tutee experimental group and the tutee control group as measured by pre-and post-test raw scores on the Iowa Tests of Basic Skills. Absolute value of F (2.14) is less than the critical value of F (4.08); therefore, the hypothesis that there will be no significant difference between the groups was accepted. The F of 2.14, although not significant, favored the control group.

TABL: 15

Analysis of Covariance Summary Results Lowa Tests of Basic Skills Tutor Raw Scores Vocabulary

Source of Variation	the filling alone and filling to fill a six of	Sum of quares	Mean Square	 egree of Freedom	F
Within Group Between Grou		420.09 38.625	8.938 38.625	/47 o	4.32

The hypothesis tested was that there was no difference at the .05 level of significance in the mean reading vocabulary achievement of the tutor experimental group and the tutor control group as measured by preand posttest raw scores on the lowa Tests of Basic Skills. Absolute value of F (4.32) is larger than the critical value of F (F.08); therefore, the hypothesis that there would no difference was rejected. By referring to Table 19, it was determined that the adjusted mean of the control group was higher than that of the experimental group; so the significant gain in achievement favored the control group.



Analysis of Covariance Summary Results Gates MacGinitie Reading Tests Tutee Raw Scores Comprehension

Source			0 49	
of Variation	Sum of Squares	Mean. Square	Degree of Freedom	
Within Groups	1810.63	45.266	• 40	
Between Groups	252.676	252.676	1	5.58

The hypothesis tested was that there was no difference at the .05 level of significance in the mean reading comprehension achievement of the tutee experimental group and the tutee control group as measured by pre-and posttest raw scores on the Gates-MacGinitie Reading Tests. Absolute value of F (5.58) is larger than the critical value of F (4.08); therefore, the hypothesis that there would be no significant difference in the groups was rejected at the .05 level. The adjusted mean shown in Table 20, was larger for the control group; therefore, the significant gain in achievement favored the control group.

TABLE 17

Analysis of Covariance Summary Results Gates-MacGinitie Reading Tests Tutor Raw Scores Comprehension

Source						
of Variatio	on in the second	Sum of, Squares	the second section in the second section is		Degree of Freedom	· F
		and the second s		0	* ***********************************	
Within Gro	oups	. 775.73	16	.505	47	
Between Gr	oups:	0.927	0	.927	1	.056
	Algoria (1994). Normaliono di mono					

The hypothesis tested was that there was no difference at the .05. level of significance in the Mean reading comprehension achievement of the tutor experimental group and the tutor control group as measured by pre-and posttest raw scores on the Gates-MacGinitie Reading Tests.

Absolute value of F (.056) is less than the critical value of F (4.08); therefore, the hypothesis that there would be no significant difference in the achievement was accepted.

TABLE 18

Analysis of Covariance Summary Results Iowa Tests of Basic/Skills Tutee Raw Scores Comprehension

Source of Variation	Sum of Squares	Mean Square	Degre Free	
Within Groups	2372.91	59.323	40	
Between Groups	41.542	41.542	1	.700

The hypothesis tested was that there was no difference at the .05 level of significance in the mean reading comprehension achievement of the tutee experimental group and the tutee control group as measured by pre-and posttest raw scores on the Iowa Tests of Basic Skills. Absolute value of F (.700) is less than the critical value of F (4.08); therefore, the hypothesis that there would be no significant difference in the achievement of the groups was accepted.



TABLE 19

Analysis of Covariance Summary Results Iowa Tests of Basic Skills Tutor Raw Scores Comprehension

			*	
Source				
of	Sum of ,	° Mean	Degree of	
Variation	Squares	Square	Freedom	, 6v F
Within Groups	2377.29	50.581	47	
Between Groups	122.216	122.216	ing in anggaran di Ambahat dipungan	2.416

The hypothesis tested was that there was no difference at the .05 level of significance in the mean reading comprehension achievement of the tutor experimental group and the tutor control group as measured by pre-and posttest raw scores on the lowa Tests of Basic Skills. Absolute value of F (2.416) is less than the critical value of F (4.08); therefore, the hypothesis that there would be no significant difference between the groups was accepted. The F of 2.416, although not significant, favored the control group.



TABLE 20

Summary of Absolute F Gates-MacGinitie Reading Tests And Towa Tests of Basic Skills

		tes-MacGinitie eading Tests		Tests of Skills
	Vocabula	ry Comprehensi	on Vocabulary	Comprehension
Tutors	.625	.056	4.321	2.416
			'-significant	favors
	The second second		favors controls	control
	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Tutees	.03	5.582	2.144	.700 ∜
. 		significant	favors	
ACLES OF	b	favors	control	
		control		

Note: Enter F Tables at .95, Freedom of 1, N of 40; Critical F is 4.08.

Analysis of Evaluation, Objective Three

A statement made in the proposal said, "Achievement gains made by tutees will be compared to gains made by tutors. This will determine if program is more beneficial to tutors or tutees."

Table 21 shows this comparison. The information shown in this table was taken from the computer printout listing summary statistics for grade equivalency. On the Gates-MacGinitie Reading Tests (GMRT) vocabulary subtest the tutors showed a mean grade equivalent gain of 9.6 months, while the tutees showed a mean grade equivalent gain of 8.7 months. The tutors thus outgained the tutees .9 months.

On the GMRT comprehension subtest the mean grade equivalent gain made by the tutors was 1.88. That represented a gain of almost two years. The tutee group gained 2.1 months. The tutors thus outgained the tutees by 1.67 or approximately one year and seven months.

On the Iowa Tests of Basic Skills (ITBS) vocabulary subtest the tutors showed a gain of 5.8 months, while the tutees gained 3.6 months. This was a difference of 2.2 months gain by the tutors over the tutees.

On the ITBS comprehension subtest, the tutors showed a gain in mean grade equivalent scores of 1.9 months. The tutees showed a gain of 5.4 months. This was a difference of 3.5 months that the tutee outgained the tutors during the course of the practicum.

Summary of Objective Three: To summarize, the tutors outgained the tutees on both the vocabulary and the comprehension subtests of the GMRT.

They also outgained the tutees on the vocabulary section of the LYBS.

Mean Grade Equivalent Gain Scores, Experimental Groups Only Vocabulary

(Dependent Variable Mean Minus Covariate Mean)

Groups	Gates-MacGinitic Reading Tests	Iowa Test of Basic Skills	
Tutor			
Posttest Pretest	6.99 6.02	# 6.46 5.88	6
Grade Equivalent Gain	.96	.58	بر
			. Г
Tutee / Posttest	3.64		
Pretest	2.77	3.43 3.07	
Grade Equivalent Gain 🍖 🧎	.87	a •36	
	Comprehension		
	4		
Tutor Posttest	8.28	5.91	Y
Pretest	6.40	5.72	
rade Equivalent Gain	1.88	.19	
Posttest	3.27	3.78	in nunnunuani
Pretest	3.06	3.24	
rade Equivalent Gain	.21	.54	9 1974. 9 1919

The tutees outgained the tutors on the comprehension section of the ITBS.

These figures indicated that the tutors gained more from the practicum than did the tutees. [These data obviously included only the experimental groups.]

Analysis of Evaluation, Objective Four

The reaction of randomly selected students to the program was a part of the evaluation. Each project teacher held a class discussion with the tutor and tutee experimental groups. In the discussion the teacher asked the following questions: "What did you like about the program?" "Why?" "Would you be willing to participate in a tutoring program next year, even if it were offered during your study hall period?"

The students wrote their reactions to the questions and gave them to the project teacher without a signature. The probability was that the students would be more honest in their appraisal if this method was followed. The papers of both the tutor and tutee groups were then shuffled together and numbered. By using the table of random numbers (Pophaml8) five responses were chosen. The responses are given just as they were written by the students, with no attempt to correct spelling, punctuation, or sentence structure.

Student responses:

I believe the program was a good idea for all of us. I believe it was encouraging to the tutors too, like maybe while they

¹⁸W. James Popham, <u>Educational Statistics</u>, New York, Harper and Row, 1967, (p. 381).

TU:

were reading in Rewards and Secret they didn't really know what the meaning of reading was. But while they were teaching the tutees' they learned a lot of things that they didn't know or they didn't hear about.

If I had to pertesapate in this Program next year than to go to Study Hall "I would!" because I find it very interesting, incouraging, pleasant and enjoying to help others if others try to help themselves.

<u>B</u>:

I have had a very nice year with my tutee. Although we went through hardships. My tutee was a smart guy. he went through 5 word lists before he missed a word. I admitted he did candy in gum, but he never put on the back of chairs or under tables. He never did fight, but he did run around the room playing. But I broke up all of the nonsence. Not only I taught him how to read but I taught him displiline and self-control. No I do not want to be a tutee next year. Not because I don't like it but I do not think I have the ability to tutor.

<u>C</u>:

I Love it a little but the teacher there give to much work and becase there always boss and the give you work sheet save time it all right but like on friday the more word to do your get to reading there white book I Hate to reading there whit book and when you finish that you got to do somthing else and they do not let you listen to tape sometime but sometime it all right but I samll HATE IT but I WILL come by and look at it sometime no I will not give up study Hall to teach the toter!

<u>D</u>:

I like the program because it helped me in reading and plus we got to listen to tapes and work worksheets and I liked my tutor and she would not be talking to other tutor and she would alway give us a spelling test on ore word list and if we miss the word she word tell us to make a sentance out of the words. That's why I like it.

No. I would not like to bega tutor or a tutee because I need the studying.

Ε:

I like this reading program because you can do any thing you want to do. Reading is fun once you know how to read when you

read a whole story in the book. [Note: This student did not indicate whether or not he or she would be willing to be in the tutoring program if it were offered next year.]

Summary of Objective Four: Four out of the five randomly selected responses indicated the students liked the program. However, three said they would not be interested in the program next year. One said he or she would take it, and one did not respond to that question.

Based on the responses given by the students, the program might be

considered a success this year. There is some doubt as to its success;

were it offered next year.

Analysis of Evaluation, Objective Five

The teacher reaction to the project was to be a part of the evaluation. At the conclusion of the practicum, the project teachers were asked to write their honest impressions of the program, either good or bad. The actual reports as submitted by the teachers are shown.

A:

(Copy of report by John Prichett) 19

It was fun. It was exciting. It was challenging. It was rewarding even if posttest scores were not as superior as I felt they should have been.

Behavior problem students, in some cases, developed enough responsibility to tackle their reading problems. Scores for a few of my "pets" indicate tremendous accomplishments. Because of these gains, the program was worthwhile.

No program can be a success without the individual's taking the trouble to do it right. Teams which shouldered the load and took the challenge did succeed. Less aggressive individuals who tended to "play" at school may not have learned as much, but scores do indicate a status quo or smaller gain.

¹⁹ John Pritchett Seventh-Grade Language Arts and Social Studies Teacher, Harry Stone School, Dallas, Texas.

Weaknesses in the program were discipline of self (the team had to work together), and the second assignment sheet was too flexible. Pupils enjoyed the memo-pages, first word list, and basal reading.

I would gladly accept the challenge of a tutoring program. If not superior, it must be thought of as equal to teacherled lessons., I personally feel, with an experienced teacher leading it, the program would be far superior.

<u>B</u>:

(Copy of report by Gay Spencer):20

I liked this program very much. The kids did a very good job. I think it helped them all very much. Not only in helping them to read better, but it improved their selfimage so much. There were some people in there that wouldn't even talk very much. By the time they finished their program, they had made many more friends and were participating in everything just because they weren't as shy.

The students had more freedom to read what they wanted to do. They also liked listening to the tapes. The assignment sheet gave them short term goals to reach and I think this was good.

There are a few things I would change. I would have a little more controlled classroom. The noise got loud sometimes, and I think if we had started out a little stricter, the program would have been better.

Summary of Objective Five: Both project teachers indicated they liked the program. That is a plus for the project, as the students profited from the experience. Each mentioned some changes they would like to make if they were involved in another tutoring program. From the reactions of the project teachers, I would classify the program as successful.

²⁰ Gay Spencer, Sixth-Grade Language Arts and Social Studies Teacher, Harry Stone School, Ballas, Texas.

Areas of Possible Improvement

More prior planning would have strengthened the program. For instance, more definite guidelines could have been established for the student's management of the program.

Additional training for tutors would have been helpful. During the first portion of the project, the tutors did not know exactly what to do. Some, for example, were actually doing the assignments the tutees were supposed to be doing under tutor supervision.

There was too little training for the project teachers. Unless a teacher is experienced in working with tutors and tutees, two hours of instruction is not nearly enough training for them to know what should be done. As a result, it was difficult for them to tell the tutors what to do. On the other hand, project teachers were not as passive as recommended by the DISD Instructional Facilitator. It was difficult for them to give up complete control of the classroom. Further instruction of the project teachers would probably have enabled them to strike the happy medium between clarifying tutor-tutee responsibilities and developing their own areas of contribution to the program.

The project would have been improved if the tutors and tutees had volunteered for the program. Since the students were chosen by sections, some had no interest in tytoring from either the tutor or the tutee angle. A few displayed total lack of motivation throughout the project.

In some instances, the tutees resented the tutors. They did not like the tutor to "tell me what to do."

TU/

The tutoring period of one hour each day was too long. The tutors could not hold the attention of the tutees for that period of time. When the instruction lasted beyond the attention span of the tutee, the tutor would lose his motivation and more or less give up.

Organization and responsibility in the classroom were not stressed enough. For instance, when the bell rang to end at the class period, the students would leave without replacing material in its proper place.

Though efforts were made in the student rap sessions to counteract such problems, certain guidelines should undoubtedly have been established from the very beginning.

Evaluation Summary

Evaluation of the program was made in five areas. The first was reading achievement in vocabulary and comprehension by the tutee and tutor experimental groups. The goal was that 15 students, or 60 percent, from each of the experimental groups would progress eight months or more in reading achievement. Only the tutor group met this criteria and then only on comprehension. Since the results from three of the four subtests failed to meet the criterion set forth, the first area tested was considered not to have been successful. If that criterion were amended to read that 60 percent of the students gaining one month or more in these reading skills per one month of instruction, then the results of the first area would have proved the project to have been successful in this area.

The second area compared on the Gates-MacGinitie Reading Tests (GMRT) and the Iowa Tests of Basic Skills (ITBS) in the vocabulary and

omprehension subtests raw scores. The hypothesis was that there would e no significant difference in the mean achievement gains of the control roups and the experimental groups measured at the .05 level of signifiance. On six of the comparisons, the null hypothesis was accepted. here were no significant differences in the mean achievement gains of ne control groups and the experimental groups. On two of the comparisons here was significant gains, but the gains were in favor of the control roups. The established criterion was, therefore, not met in area two, it was not considered to have been successful.

Area three involved comparisons of achievement gains made by the operimental group tutors and tutees to determine which group gained the ost benefit. The tutors outgained the tutees on both vocabulary and compension based on scores from the CMRT. They also outgained the tutees the vocabulary subtest of the ITBS. The tutees outgained the tutors on the comprehension section of the ITBS. Results thus revealed that the perimental group tutors gained more from the practicum than did their tees.

In evaluating area four, five randomly selected students were asked write answers to specific questions, thus revealing their reactions to e project. Four of the five students said they liked the program but uld not be interested in participating in a tutoring program next year. sed on the reactions of the students, the implemented program might be usidered a success.

In area five, the two project teachers both submitted written reports out their reactions to the practicum. Both were enthusiastic about the

program, but each listed some faults. Their reactions, however, indicated that they believed the practicum to have been successful.

Ultimately in two of the five areas evaluated, the project was considered not to have been successful. Evaluation of two other areas indicated that the project was successful. The remaining area evaluated was a comparison between the mean gains of the tutor and tutee experimental groups with no criterion set forth as to which would achieve more. The areas considered not to have been successful were tested by standard statistical methods. Those areas which indicated success were not amenable to such unambiguous testing. The results of the former must, therefore, be considered to have the greatest strength. As a result, the practicum may not be considered successful.

As mentioned in the abstract, the object of the practicum was two-fold: (a) raise the grade equivalent scores of at least 60 percent of both tutee and tutor experimental groups by eight months, and (b) find greater gains in the experimental group than in a similar control group with the .05 level of significance as critical. The practicum failed to meet these objectives; therefore, it must be considered not to have been successful.

CONCLUSIONS AND RECOMMENDATIONS

- The overall program was considered not to have been successful.
- 2. The following recommendations emerged from this practicum:
 - a. Longitudinal projects should be conducted in order to determine what the majority of the students need in order to learn effectively under regular classroom instruction.

- b. The project teachers, program director, and Instructional

 Facilitator-Tutoring Programs should do more planning prior to
 the implementation of a peer tutoring program in a classroom.

 For example, guidelines must be established for effective classroom organization and responsibilities.
- c. Tutor and tutee participation in the program should be voluntary,
- d. Additional training should be given the tutors so they would feel comfortable working with the tutees.
- e. Selection of teachers for the program should be made after careful consideration of their personalities as well as their teaching methods. Some teachers, for example, just cannot turn the class-room over to the students, even when productive work is going on.
- f. Additional training should be arranged for the project teachers.

 They should be sure of themselves and what needs to be done when
 the program starts, rather than learning as the program progresses.
- g. The tutoring program should be supplemental to all basal reading programs, rather than in lieu of a specific basal program.

FURTHER APPLICATION AND FOLLOW-UP

A copy of this report will be made available to the DISD Instructional Facilitator-Tutoring Programs (title has been changed to Analyst - Tutoring) who started five other schools in April, 1976, on pilot tutoring programs. The Facilitator has seen the statistics from this report as well as the analysis of the areas neeming improvement. Based on that information,

changes are already being made in his organization. For the school year 1976-77, for example, the Tutoring Programs resource staff has been increased from one to five in order to increase the availability of their instruction to teachers and tutors. A letter to all principals announcing the increase is shown as Appendix W. One of these resource people was assigned to each sub-district within the DISD. They have been working all summer on material and methods of instructing the tutors and teachers to obtain the best results from a tutoring program. In addition to being available for additional instruction, they will also be available to help during the year any teacher whose program is not progressing satisfactorily. This increased availability should prove to be of great benefit to all future tutoring programs within the DISD.

A copy of this report will also be sent to Dr. Nolan Estes, DISD

General Superintendent of Schools. This will be done partly because the report might prove to be useful in planning for other tutoring programs as well as for informational purposes, and partly because the writer is proud of the work invested in the program-by the students, the project teachers, the DISD Instructional Facilitator-Tutoring Programs, and the writer.

Even though the overall effort was considered as not successful as measured by the practicum's established criteria, the lessons learned might help others not to make the same mistakes. And, since 60 percent of the students in the experimental groups in three categories made one month of progress for each month of instruction, that is considered to be definite progress in an inner-city school. The writer probably learned more than the students or the project teachers although there are no statistics to prove it.

APPENDICES

127



L J. 4

APPENDIX A

dallas independent school district

November 17, 1975

Nolan Estes General Superintendent

To: Principal - Stone

Re: TARP and TAMP Eligibility

Based on the latest information from Texas Education Agency (See attached letter) received in this office November 17, 1975, all of the students on your campus can receive TARP and TAMP instruction.

95% are eligible for reading and 92% are eligible for math. Therefore, they can all be served with the Title I Components.

Sincerely,

Geraldine Dews

Coordinator-TARP/TAMP

GD/hm

Texas Education Agency

APPENDIX B

201 East Eleventh Street Austin, Texas 78701



*STATE BOARD OF EDUCATION

- STATE COMMISSIONER OF EDUCATION
 - STATE DEPARTMENT OF EDUCATION

November 12, 1975

057-905 1975-76 CAFA

Mr. Rogers Barton, Associate Superintendent Dallas Independent School District 3700 Ross Avenue Dallas, Texas 75204

Dear Mr. Barton:

This has reference to Title I services for educationally disadvantaged pupils in highly concentrated attendance areas. If the percentage of identified educationally disadvantaged pupils is 75% or greater, such services may be offered to the total enrollment on the particular campus. Dr. Roscoe Smith requested that I send you such a statement.

Sincerely yours,

R'. E. Slayton, Director

Division of Compensatory Funding

RES:st

pe 171975

CC/10/1

129

"An Equal Opportunity Employer

APPENDIX B HARRY STONE

Grades ¹ 6-7 Average Daily Attendance ¹ Average Daily Membership ¹		Classroom Teachers ² ADA/Teacher Index ADM/Teacher Index	18 20.42 22.89
Attendance Index Transactions 98 Mobility Index 23.79	89.23	Teacher Aides ² 2	
Parental Education Level ³ Family Income ³ \$7,374	10.9 yrs.	Housing Valuation ³ Apartment Rental ³ Public Housing ³	\$17,000 \$120-130 None

Major Zoning Classification³ Residential

Socioeconomic Status Indicator 3 1-Lower

Neighborhood Description3

Well-maintained paved streets; streets need repair; stable residential area; small grocery, light commercial and neighborhood centers; well-maintained and declining brick or frame singles and multi-family housing, new construction of multiple units; regular bus service; maintained and unmaintained vacant land; 2 or more parks with play equipment

Teaching Staff Demographic Information4

Age	Race	Experience	Degree	
<26 10 26-35 42	Anglo 52	0-5 49	No Degree	0
36-45 35	Mex. Amer. 0	6-10 17 11-20 31	A.A. B.A.	0 73
46-55 10 56-65 3	Other 0	21-40 3	M.A. Ph.D.	27
>65 0	processor place controlling			

¹ Courtesy of the Pupil Accounting Office. These are 1973-74 figures.

130

²Courtesy of the Department of Elementary Operations. These are 1973-74 figures.

Research Report 74-243. These are based on 1970 census data that were updated for 1973-74.

Research Report 74-246. These are 1973-74 figures and are reported in percentages.

Tutor Experimental Group (High Reading Level) Gates-MacGinitic Reading Test Pre-test

Subjects	Voc	abulary.	Compr	chension
	Raw Score	Raw Score Squared	Raw Score	Raw Score Squared
A, G	32	1024	38	1444
A, B	31	. 961	35	1225
В. Т	35	1225	34	1156'
B, D	25	, 625	36	1296
В, В	24	576	34	1156
В, Ј	39	1521°	42	1764
в, к	30	900	33	1089
C, R	26	676	35	1225
C, C	35	1225	42	1764
С, К	36	1256	42	1764
D, R	35	1225	39	1521
E, S	26	676	ات 31	961
Е, К	34	1156	50	2500
E, R	27	729	39	1521
н, Р	32	1024	43	1849
J, M	31	961	38	1444
J, J	30	900	42	1764
K, T	. 25	625	29	841
K, A	33	1089	36	1296
M, G	38	* /1444	43	1849
P, R	35	1225	44	1936
Т, А	33	1089	43	1849
T, M	32	1024	40.	1600
		131		

APPENDIX C (continued)

8 ² s.	Aİ	PPENDIX C (cont	inued)		· •
	11/18				
Subjects	Voc	abulary	Comp		
aujeces	Raw Score	Raw Score Squared	Raw Score	Raw Score Squared	
w, c	. 29	841	33	1089	
W, 10 N	41	1681	44	1936	
w, v	33	1089	48	2304	*; * 1 * 1 * 1 * 1 * 1 * 1 * 1 * 1 * 1 *
Ţotal	827	, 26807	1013	43143	
N = 26			2000		
Mean	31.81		38.96		
	· · · · · · · · · · · · · · · · · · ·	5.0			
		4144			

					12. 12. 12. 12. 12. 12. 12. 12. 12. 12.
					123 223 233 233 234 234 234
					e e e e e e e e e e e e e e e e e e e
					2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1
		132	M		
Maria de la companya br>Personality de la companya de la co					

APPENDIX D

Tutor Control Group (High Reading Level)
Gates-MacGinitic Reading Test
Pre-test.

	Voca	bulary /	Compr	<u>ehension</u>
Subjects	VOC 2	Raw Score		Raw Score
	Raw Score	Squared	Raw Score	Squared
A, J	35	1225	39	1521
B, V	35	1225	39	1521
в, ѕ	29	841	40	1600
C, A	29	841	30	900
C, W	33	1089	40	1600
C, D	30	900	38	1444
C, J	32	1024	34	1156 -
С, М	31	961	46	2116
F, I	27	729	38	1444
б , ј	22	484	~ 41	1681
Ç, L	30	900	36	1296
G, D	23	529	39	1521
G, T	31	961	34	1156
н, р	30	900	35.	1225
J, E	42	1764	47	2209
м, D	29	841	43	1849
Mc C	* 37	1369	,49	2401
Mark, D	34.	1156	45	2025
M, L	39	1521	48	2304
М, Ј	.35	1225	45	2025
P, L	28	784	36	1296
P, S	31	961.	39	1521
		133		

APPENDIX D (continued) 1 -

g	ubjects	Voca	abulary	Compa	chension
٠	2010000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Raw Score		Raw Score
		Raw Score	Squared	Raw Score	Squared
	P, M	42	1764	47	2209
	_ - ,				•
 	R, M	26	676	45	2025
in the first		4			=
	s, s	23	529	43	1849
			rs e leg le		
	T, A	<i>1</i> ∙ 29 j	841	42	1764
		e ²	6.0		
	W, A	29	841	34	1156
	W, B	37	1369	49	2401
				1141	/7070
9 - 1	Total	878	28250	1141	47213
1 1 1 2		4			
, I	1 = 28				
•		07.06		10.75	
	Mean	31.36		40.75	
•	S 19 5 11				
, + * ₄ , * G	.		-	q ·	
tagat sa Tagata					
	eni.e				
and the second					*
		* 3*			
	4				E C and A
"	-		ø.	#	
			<u> </u>		
	1	./			
	, '- '-	/ 1		2.11	
		/ · · · · · · · · · · · · · · · · · · ·			
e e e e e e e e e e e e e e e e e e e					
5					
					in the second se
**		·			
.,					Service and the service of the servi
N			English Representation of the		
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
			a sela si siste a 🙀 🙀		
e Segretario (1987) Agentario (1987)				Large 1 and the law 1	
		6. 5 · 6. 5 · 6.	491		
			134		
State State State				1 mar (+ 1 mm) (945) 1 45.	NUMBER OF THE PROPERTY OF

APPENDIX E

Experimental - Control Groups (High Reading Level)
Gates-MacGinitie Reading Test

Vocabulary -Raw Scores

<u>Co</u>	ntrol Group 🙎 🚊 Expe	erimental Group
N	28	26
Mean	31.36	31.81
Variance	26.61	20.08
Standard Deviation	5.16	4.48
t statistic	341	
Critical t(60)	2.00	

Absolute value of t is less than critical t, therefore, accept the hypothesis there is no difference in groups.

	mprehension aw Scores	6	
Control Grou	P	Experimenta	1 Group
N 28		26	
Mean	4	38.96	
Variance 26.57		58.01	· · · · · · · · · · · · · · · · · · ·
Standard ø Deviation 5.15		7.62	
t statistic	1.03		
Critical t(60)	2.00		

Value of t is less than critical t, therefore, accept the hypothesis there is no difference in groups.

APPENDIX F Tutee Experimental Group (Low Reading Level) Gates-MacGinitie Reading Test Pre-test

Subjects	Voca	abulary . Raw Score	Comp	rehension Raw Score
*	Raw Score	Squared	Raw Score	Squared
В, Д	21′	441.	20	400
B, 8	32	1024	27	729
в, о	29	841	31	961
в, т. м.	21	441	20	400
B, J	28	, 784	30	900
D, R	23	- 529	11	121
D, E	25	625	19	5 361
D, P	33	1089	37	1369
- Е, М	24	576	24	.576
E, R	26	676	29	841
F, F	34	1156	22	484
. G, L	31	961	22	484
н, т	15 **	225	- 15	225
L, M	, 21	441'	. 19	. 361
Mc G	12	144	.10	100
м, р	29	841	21	441
N, E	27	729	16	256
0, J. L.	26	676	31	961
R, C	24	576	29	841
R, Ď	19	361	17	289
s, T	13	169	17	289
		136		

ubjects	Vocabulary		. Comprehension		
	Raw Score	Raw Score Squared	Raw Score	Raw Score	
Γ, Ε.	24	576	19	361	
i, s	33	1089	24	576	
√, B	32	,1024	33	1089	
\ Total	: 602	15994	.: 543	13415	
= 24					
Mean	25.08		22.63		
				e de la constante de la consta	
gil					
		galla eget de la companya de la com			
		And the same of th			
3().				ALAMANA MARANA MARA	



APPENDIX G Tutce Control Group (Low Reading Level) Gates-MacGinitic Reading Test Pre-test

Subjects	Voca	bulary	Compr	ehension
	Raw Score	Raw Score Squared	Raw Score	Raw Score Squared
B, G	30	900	17	289
C, E	23	529	11	121
C, R	19	361	10	100
C, J	34	1156	22	.484
C, L	21	/ 441	29	841
D, J	29	841	29	841
D, G	26	676	18	324
F, G	26	676	22	484
G, G.	21	441	13.	169
G, C	28	784	31	961
H, S	23	529	21	441
K, 0	31	961	18	324
M, I	34	1156	31	961.
N, B	22	, 4 8 4	30	900
R; N. :		961	25	625
R, G	26	676	25	625
R, S	34	,1156	27	729
R, M	24	576	23	529
3, B	25	625	16	256
8, S	31	961	31	961
3, P	29	841	27	729
		138		

Subjects	St. Later and Comment of the American St. Co. S.	abulary	Compt	ehension	
	Raw Score	Raw Score	Raw Score	Raw Score Squared	
s, F	23	529	16	256	
W, B	32	1024	29	841.	
. W, Barry	28	784-	25	625	
ŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢ	650	18068	546	13416	a production
N = 24					
" Mean	27.08		22.75		in the Mills
				The first of the second of the	
			9 9		
					7

APPENDIX H

Experimental - Control Groups (Low Reading Level) Gates-MacGinitie Reading Test

Vocabulary Raw Scores

Conti	ol Group		Experimental	Group
N			24	
Mean 27	7.08	and the second	25. 08 ا	
Variance 20).17		38:86	
Standard				
	. 49		6.23	
t statistic		1.275		
Critical t(60)		2.00		

Value of t is less than critical t. Therefore, the author accepts the hypothesis there is no difference between groups.

Comprehension Raw Scores

			fin fillipe wat titlijkile	
	Control Group	Alice Barrier (* 1800). Program († 1800)	Experimental	Group
	24		24	
N				Section 1
	원생활하는 한 명 것이다.			
Mean	22.75	요청하는 생활되어 뭐 안 하나요.	22.63	- P. De
				er a de la compe
			48 16	
Variance	49.11		4c > Lo	
Standard	ំសម្លាំក្នុង ។ បានស្ថិតស្ថិតអ្នក ខែកម្ពុជា ស្ថិត សំណើល ក្នុង ស្គាល់ស្រាស់ស្រាស់ស្រាស់ស្រាស់	សារណ្ណ របស់ ដៅទៅ សាសា សា សា សិទ្ធភា សិសា		
발생하다 하다는 그들은 사람들이 살았다. 그 그 사람들은 그 사람들이 되었다.	보고 하게 함께 되는 것이 되었습니다. 	office of the same from	7.01	en la
Deviation	6.58		1	
rediginate from the first of the control of the con				
t statistic		.059		a pilohelib
		그림 사용적 나면 [종급왕기] 이 없는 사람		1
Critical t(60)		2.00		

Value of t is less than critical t, therefore, accept the hypothesis there is no difference in groups.

APPENDIX I. Tutce Experimental Group (Low Reading Level) Iowa Test of Basic Skills Pre-test

B, D B, S B, O	Raw Score 04	bulary Raw Score Squared	Raw Score	Raw Score Squared	
B, D B, S		Type of the second			
B, S	94	/ 16	20	400.	
B, 0	14	196	20	400	
	14	196	13	169	
В, Т	07	49	18	324	
B, J	11	121	22	484	
D, R	08	64	25	625	
D., É	11	121	. 18	324	
D, P	06	36	18	324	
E, M	11	121	14	. 196	
E, R	10	100	15	225	
F, F,	00		. 00	4	
G, L	09	81	16	256	
H, T	16	256	14	196	
L, M	12	144	24	. 576	
Mc G	08	64	, 16	256.	
M, D	12	144	12	144	
N, F	03	9	06	36	
0, J. L.	15	225	14	196	
R, C	16	256	22	484	
	09	81	30	900	
R, D S, T		196	17	289	
	14	170			
	interior in a de la compansión de la	and the state of t			

Subjects -	Voca	ıbulary	Compre	Comprehension	
	Raw Score	Raw/Score Squared	Raw Score	Raw Score Squared	
T, E'	. 00		00		
W, S	08	64	28	784	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Total	218	2540	382	7588	
N = 23					
Mean	9.48		16.61		
And the state of t					
	A de la companya de l				
		A			
	9				
					Wind Color
					3. (4)
		142			

	Iov	ontrol Group (I va Test of Basi Pre-test	c Skills	
Subjects	Voca	bulary	Compre	hension Raw Score
. 2	Raw Score	Raw Score Squared	Raw Score	Squared
в, С	11	121	21	441
C, E	09	. 81	. 13	169,
C, R	16	256	14	196
C, J	09	. 81	17	289
C, L. A.	14	196	22	484
D , J	14	196	26	676
D, G	• 08	.64	. 23	. 529
F, G	09	81	17	289
G, G	. 10"	100.	18	324
G, C	10	100	23	529
.H, S	06	36	19	361
к, о	08	64	09.	81.
м, ц	06	36	20	400 ,
N, B	04	14	18	324
R, N		₇ ,121	.24	576
R, G	09	81	21	441
R, S	14	196	20	400
R, M	08	64	21	441
S, B	14	196	17	.289
R, S	03	09	. 22	/ :484
S, P	. 12	144	23	/ 529

• • • • • • • • • • • • • • • • • • •		APPENDIX J	(continued)		
			<i>p</i> .		in the second
Subjects	Voca	abulary	Comp	rehension	
	Raw Score	Raw Score	Raw Score	Raw-Score Squared	ราช (การสาราชานิก พ.ศ. 25 (การาชานิก) (การาชานิก)
S, F	. 06	36	09	.81	
W, B	14	196	14	196	
W, Barry	08	64	20	400	en spre v 194
, · Total	233	2533	451	8949	
N = 24					
Mean	9.71		18.04	ing the	

APPEND TX K

Experimental - Control Groups (Low Reading Level) Iowa Test of Basic Skills (Reading)

Vocabulary Raw Scores

Control Group	Experimental Group
N 24	**.
Mean 9.71	9.48
Variance 11.78	21.53
Standard	
Deviation 3.43	4.64
t statistic .193	
Critical t(60) 2.00	

Value of this less than critical t, therefore, accept the hypothesis there is no difference in groups.

Comprehension Raw Scores

	Control Group	Experimental Group
N	24	· 23
Mean	18.04	16.61
Variance	20.61	56.52
Standard Deviation	4.54	7.52
t statistic	.789	
Critical t(60)	2.00	

Value of t is less than critical t, therefore, accept the hypothesis there is no difference in the groups.

APPENDIX L

Tutor Experimental Group (High Reading Level)

Iowa Test of Basic Skills

Pre-test

Subjects	Voca	bulary	Compr	chension
		Raw Score	Par Sacra	Raw Score Squared
	Raw Score	Squared	Raw Score	as a Squareu
A, G	27	729	35 ,	1225
A, B.	17	289	30	900
В, Т	27	729	20	400
B, D	20	400	20	400
В, В	25	625	33	1089
В, Ј	31	961	46	2116
B; K	18	324	33	1089 🧳
C, R	27	729	43	1849
C, C	32	1024	.46	2116
D, R	26	676	39	1521
E, S	12	144	36	1296
E, K	. 34	1156	52	2704⁄
E, R	31 //	961	35	1225
н, Р	34	1156	54	2916
J, M	31	961	37	1369
J, J	30	900	44	1936
к, т	28	,784	32	,1024
К, А	22	484	33	1089
M, G	36	1296	58	3364
P, R	33	1089	38	1444
T, A	31	961	31	961
	73 (34, 17) a 12 a 14 a 15 a 17 a 1 25 (37) a 18 a 18 a 17 a 18 a 18 a 18	· 146	[2] R. G. W. Separation for a part of the second control of the	and the Market of the Committee of the C

		APPENDIX L: (com			
Subjects	į. Voc	abulary	Comp	rehension	
Subjects	Raw Score	Raw Score	Raw Score	Raw Score Squared	
T, M	24	576	43	1849	
w, c	25	[/] 625	. √ 36	1296	
Ŵ, N	37	1369	- 44	1936	
\w, v	35	1225	50	2500	
Total	693	20173	968	39614	
N = 25					
Mean	27.72		38.72		
AMERICAN PROPERTY OF THE PROPE					
			다 하는 것이 되는 것이다. 1 1일에 있는 것이 없는 것이다.		
			, C		

APPENDIE M

Tutor Control Group (high Reading Level) Iowa Test of Basic Skills Pre-test

Comprehension Vocabulary Subjects_ Raw Score Raw Score Raw Score ! Squared Squared Raw Score A, J B, V B, S 72Š C, A C, W 29. C, D C, J ,30 C, M 21 -F, I 841. G, J G, L G, D G, T 25. H, D J,∖∵E Μ, υ Mc C Mark, D M, L M, J. 36. 23. P, L

		APPENDIX M (c	ontinued)		
Subjects	Voca	bulary	The second secon	ehension Raw Score	
	Raw Score	Raw Score A	Raw Score	Squared	Tananan akan Tananan Tananan Tanan Nebelahan Tanan Tanan Tanan
P, S	27	729	33.	1089	
Р, М	- 28	. 784	39	1521	
R, M	28	784	50	2500	
s, s	. 21	441 .	.37	1369	
9 ~ T, A	34	1156	34	. 1156	
W, A	24	-576	387	1444	
∘W, B "	38	1444	65	4225	
Total	7.73	22153	1106	45370	
$\hat{N} = 28$					
/ Mean	27.61		39.5		1 (1) 1 (1)
	i defenda de la Pergo do la Pergo de la Pergo de la La la partigación de la Pergo de la Pe				
The second secon					

APPENDIX N

Experimental - Control Groups (High Reading Level) Iowa Test of Basic Skills (Reading)

V	ОC	a	b	u	1	a	r	Y	
R	aw	Ý	S	c	ō	r	e	S	٠.

	Control Group		 rimental Group
N	28		25
Mean Variance	27.61 30.10		40.13
Standard			
Deviation t statistic	5.49	÷.175	6.33
Critical t (60)		2.00	

Absolute value of t is less than critical t, therefore, accept the hypothesis there, is no difference in groups.

Comprehension		
Raw Scores		
N 28	25 -	
Me an 39.50	38.72 /::	· 在
Variance 62.33	88.88	
Standard	9.43	
Deviation 7.90 t statistic		新疆的
Critical t (60)		
XX 프로프로 프로그트 (1984년 4일 12 시간 전 12 시간 전 12 시간 전 12 시간 전 12 시간 시간 전 12 시간		i i

, Value of t is less than critical t, therefore, accept the hypothesis there is no difference in groups.

APPENDIX C

Tutee Experimental Group (Low Readers) Gates-MacGinitie Reading Tests Raw Scores

.D. Number Vocabûlary			Comprehension		
N = 21	Pretest	Posttest	n Pretest	Posttest	
				A. J. Santa	
5223	21	33	20	34	
1666	32	35	27 σ	11	
5479	29	35	31	31	
0 077	21	27	20	27	
7579	28	39	30	38	
5421	23	28	11	18	
1405	25	24	19.	, 19.	
5247	33	39	37	42	
5708	24	32	24	- - - - - - - - -	
1578	26	36 •	29	34	
5473	4 34	29	22		
8704	31	39	22*	28	
5385	15	19	15	1	
5692	. 21 .	21	19	20	
5399.	12	27	10	14	
5821	26	34	31	15	
5062	.24	38	- 29	37	
5271	13	36	17	22	
5429	33	42	24 -	23	
5393	32	38	33	34	
Consequent November 1991 1991 1991 1991 1991 1991 1991 19			1/		
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
A CONTRACTOR OF THE PROPERTY O		151			
The said of the latest		101			

APPENDIX P Tutee Control Group (Low Readers) Gates-MacGinitie Reading Tests Raw Scores

I.D. Number	I.D. Number Vocabulary			rehension
N = 21	Pretest'	Posttest	Pretest	Posttest
133132	30	30	17	:_36
179857	23	24	11	26
135730	19	26	10	23
135345	34 °	41	22	40
211332	21	35	. 29	35
, 229518	. 29	42	29	34
•135087	33	٠ 41	32	28
166519	20	23	18	24
135272	26	. 29	22	25
217105	28	37	31	32
125377	23	36	21	28
194316	31	32	18	28
287922	22	36	30	27
281407	.31	29	25	21
135267	26	28	25	29
135402	. 24	41	23	. ∖37
135280	25	28	16	30
131296*	31	41	31	32
135507	23	25	-16	23
313681	32	35	29	34
154404	28	37	25	. 28
135247	26	28	18	16 \
		c-152		

APPENDIX Q Tutee Experimental Group (Low Readers) Iowa Tests of Basic Skills Raw Scores

I.D. Number	Vocal	bulary	Comprehension		
N = 21	Pretest	Posttest	Pretest	Posttešť	
135223	04	15	20	.√ 18	
131666	14	16	20	³ 20	
135479	14	18	. 13	17	
180077	07	13	18	40	
127579	11.	12 🔻	22	31	
135421	08	05	25	18	
281405	11	12	18	18	
135247	06	13	18	40	
135708	11	13	14	19	
311578	10	1.2	15	. 15	
135473	00	05	00	06	
138704	09	11	16	27	
135385	16	06	14	19	
135692	12	12	24	20	
. 135399	08	. 07	16	16	
195821	15 ,	08	14	20	
135062		15	22	26	
135053	09	11	30	28	
125271	14	18	1-7	27	
135429	08		28	23	
135393	14	19	16	26	
e grand the state of the state					
The state of the s					
		153	Company of the second s	tinaren bir 1. maria 1. maria (h. 1816). 1970 - Francisco Maria (h. 1816).	

APPENDIX R

Tutee Control Group (Low Readers) Iowa Tests of Basic Skills Raw Scores

I.D. Number	Vocab	oulary	Comp	arehension
N = 21	Pretest	Posttest	Pretest	Posttest
133132	11	16	21	18
179857	09	21	13	30
135730	16	14	14	17
135345	09	12	17	
211332	14	13	22	_ 36
229518	14	14	26′	21
135247	08	13	23	12
135272	09	08	17. 11	11
217105	10	18	23	. 22
125377	.06	11	19	13
194316	08	09	- 09	19
287922	04	15 .	18 "	12
281407	11	11	24	16
135267	09	19	.21	25
166519	14	12	20	16
135402	08	20	21	41
135280	14	09	17	17
131296	03	15	22	34 (1996)
135087	12	16	23	20
135507	06	09 ·	09	. 19
313681	14.	.14	14	, 17
154404 :	08	13	20	24
	All agents of tracking agents and the	A contract of the contract of		
State Committee of the		154		



APPENDIX S Tutor Experimental Group (High Readers) Gates-MacGinitie Reading Tests Raw Scores

I.D. Number	Vocal	oulary	Comp	rehension
N = 21	Pretest	Posttest	Pretest	Posttest
135728	32	_37	32	43
135477	31	27	35 .	. 32
180191	25	36	36	44
246065	24	28	34	35
135157	39	38	42	47
135069	30	30	33	40
226164	26	30	.35	44
135341	35	⁷ , 36	42	44
135377	35	_ 37	39	43
135690	.26	32	31	36
135055	34	42	50	50
135691	27	30	39	45
135078 ^	32	35	43	48
135348	31	34	38	49
135080	30	.33	42	46
135081	25	35	29	48
135093	- 4 - 33	33	36	47
135094	38	40.	43	. 51
135096	35	42	44	49
135643	33	36	43	40
135321	.32	33	40	37
353004	29	33 🕶	33	36
135101	41	43	44	46 / / S
135108	33	38	48	. 48

APPENDIX'T APPENDIX T Tutor Control Group (High Readers) Gates-MacGinitie Reading Tests Raw Scores

					
I.D. Number	Vocal	oulary	Comprehension		
N = 21	Pretest	Posttest	Pretest	Posttest	
135067	35	38	39~	. 42	
135141	- 35	36	39	42	
135119	29	37	40	42	
135420	29	40	30	43	
135677	33	39	40	47	
123102	30	35	38	45'	
135678	. " 32	36	34	*40	
. 135071	31	-35	46	48	
135459	27	36	38	36	
180018	22	31	41	39	
135183	30	31	36 '/-	39	
148274	23	29	39	-40	
148404	31	35	34	51 N	
135077	30	33	35	48	
-135713	42	38	47	. 50	
135171	29	35	43	47	
135693	37	38	49.	51	
195212	34	38	45	.49	
135082	39	42	48	47	
135206	35	38	45	44	
135128	28	33	36	40	
135504	31	38	39	43	
135095	.42	34 🐩	47	. 46	
127284	26	34	45	45	
		HE CONTRACTOR	THE PROPERTY OF THE PROPERTY OF THE PARTY OF		

APPENDIX T (continued)

I.D. Number		ulary	Com	prehension
N = 21	Pretest	Posttest	Pretest	Posttest
.135220	23	30	43	45
353000	29	32	3,4	. 42
			, , , ,	
e de la companya de l				
		4		
			a ·	
				1
/				
	6			
	· ·	in the group of the transfer of the state o		
	a to the same			
		en e		
		og og kriger grænger i 1945. De filosofie i 1950 og 1950 o		
				Handley and the same of the sa
				A state of the sta
		15 / · ·		
THE PROPERTY OF THE PROPERTY O		The second of the control of the second of t	THE ACTION SERVICE TO SERVICE THE SERVICE OF THE SE	and a second second of the second br>Second second

APPENDIX U Tutor Experimental Group (High Readers) Iowa Tests of Basic Skills Raw Scores

I.D. Number	Vocal	bulary	Comprehension	
N = 21	Pretest	Posttest	Pretest	Posttest.
135728	27	28	35	35
135477	17	19 ,	- 30	33
180191	20	30	- 20	44
245065	25	30	33.	35
. 135157	31 .	33	46	48
135069	. 18	20	33	√ 23
226164	27	27	43	42 '
135341	32	36	46	48
135377	26	31	39	38
135690	1.2	20	36	40
135055	34	37	52	58
135691	31	28	35	32
135078	34	37.	54 .	58
135348 1350 8 0	31	· 29	`37	. 45.
135080	28	35 36	44	
135093	22	26	33	28
135094	36	39	58 E. STREET	66
135096	33	41	38	38 4
135643	31	32	31	27
135321	24	26	43	40
- 353004	25	30	36	31
135101	37	44	.40	47
135108	35	38 158	.50	49

APPENDIX V Tutor Control Group (High Readers) Iowa Tests of Basic Skills Raw Scores

I.D. Number	Vocabulary		Comprehension	
N = 21	Pretest	Posttest	. Pretest	Posttes
135061	25	37	29	39
135141	22	28	38	51
135119	32	36	43	50
135420	27	32	45	52
135677	20	34	38	46
123102	29	38	44	44 (,
135678	25	30	34	45
135071	34	36	30	43
135459	21	24	35	28
180018	25	26	29	36 A
135183	31	30	29.	40
148274	16	26	29	*30
148404	25	29	36	46
135077	25	-32	- 46	35
135713	36	39	28	52
135171	26	33	47	49
135693	35	40	49	. 59 /
195212	36	' 39	39	. 43
135082	-30	3 2	.56	4.56
135206	30 🗸	35	50	¥44
135128	23	28	36	37
135504	27	34	33 %	40
1/2135095	28	34	39	44
		- C		

APPENDIX V (continued)

44.5

N = 21	I.D. Number	Vocabulary		Comprehension	
127284 28 34 50 50 135220 21 27 37 51 353000 24 27 38 48	N = 21			Pretest	
135220 21 27 37 51 353000 24 27 38 48	127284	28			PAR SPACE
353000 24 27 38 48	135220	21	27	1 .	51
	353000	24	27	38	48
		**			
		<i>'</i>	<i>'</i>		
		***		A Company of the Company	
					la de la companya de la companya da de La companya da de la
	nervi			And the second s	er Turk i de en
	and the second s	*		/	
					A CONTRACTOR
				**	in the Marie Barrier of the Community of
			* •		
					그 그 집 가이를 잃다.
				\	
	The state of the s				
	4				
				the state of the s	
				4	
				Sign of Market	
				Payer for the careful to	
		eri Personal de la companya de la co			
				and the first term of the control of the little of the control of	The state of the s
RESERVED BEFORE AND PROBLEM AND AND A PROPERTY OF THE AND A CONTRACT OF THE AND A CONTRA			The state of the s		The second secon
The second secon	The state of the s		160	Andrews Service (1997) 1 1 1 1 1 1 1 1 1	

МЕМО

ect:

DALLAS INDEPENDENT SCHOOL DISTRICT SCHOOL ADMINISTRATION BUILDING 3700 ROSS AVE.

August 9, 1976

All Principals

Tutoring Staff

The tutoring department will be better able to serve you during the 1976-1977 school year because of the addition of five professional staff members. Each Resource Teacher - Tutoring will be responsible for the programs in one of the five sub-districts. Their names and assignments are as follows:

NAME

Mary V. Dunn Priscilla Watkins Elizabeth Jackson Alayne Nelson Mary Ellen McElroy SUB-DISTRICT

Northwest Southwest East Oak Cliff Southeast Northeast

These teachers will be assisted by our Resourse Aides - Tutoring:

Jackie Richardson Ruchele Evans

Please feel free to call on any of our staff if we may assist you in any manner. Our new telephone number is 421-1386.

Sincerely

Jim Daniel

Analyst - Tutoring

APPROVED:

Stamps

Assistant Superintendent-

Instructional Services

Assistant Superintendent-

Elementary Operations,

George Reid

Assistant Superintendent-Secondary Operations

Yyonne Ewell

ssistant Superintendent-

East Oak Cliff

BIBLICGRAPHY

- Allen, Vernon L. and Feldman, Robert S., "Learning Through Tutoring: Low-Achieving Children as Tutors," <u>Journal of Experimental Education</u>, Vol. 42, No. 1, Fall, 1973.
- Bloom, B. S., "Learning for Mastery," <u>Evaluation Comment</u>, Vol. 1, No. 2, May, 1968.
- Bowers, Norman D. and Soar, Robert S., "Studies in Human Relations in the Teaching/Learning Process," Evaluation of Laboratory Human Relations
 Training for Classroom Teachers, Chapel Hill, N. C., 1961.
- Campbell D. and Stanley, J., Experimental and Quasi-Experimental Designs for Research, Shokie, Illinois, Rand-McNally, 1963.
- Cohen, S. Alan, Teach Them All to Read, New York, Random House, 1969.
- Coleman, J. S., <u>The Adolescent Society</u>, New York, The Free Press of Glencoe, 1961.
- Consolidated Application for Federal Assistance, Elementary and Secondary Education Act, Title I, 1975-76.
- Friedenberg, E. Z., Coming of Age in America: Growth and Acquiescence, New York, Random House, 1965.
- Measurement Profiles, Department of Research, Evaluation, and Information Systems, DISD, Report No. 75-628, 1974-75.
- Miller, Wilma H., <u>Identifying and Correcting Reading Difficulties in Children</u>, New York, The Center for Applied Research in Education, Inc., 1971.
- Performance Profiles, Department of Research, Evaluation, and Information Systems, Dallas Independent School District, South Oak Cliff Attendance Area, Grades 2, 4, 6, Report No. 75-513, 1974-75.
- Popham, W. James, Educational Statistics, New York, Harper and Row, 1967.
- Programmed Tutoring in Reading, Ebersen Enterprises, Pasadena, California.
- Rogers, Carl R., On Becoming a Person: A Therapist's View of Psychotherapy, Boston, Houghton Mifflin Co., 1961.
- Rogers, Carl R., "The Facilitation of Significant Learning," <u>Instruction-Some Contemporary Viewpoints</u>, ed. Lawrence Siegel, Chandler Publishing Co., 1967.

- Roswell, Florence and Natchez, Gladys, Reading Disability: Diagnosis and Treatment, Second Edition, New York, Basic Books, Inc., 1974.
- Winer, B. J., Statistical Principle in Experimental Design, New York, McGraw-Hill, 1962.