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Activities: Socialization: *Special Classes: *Summer

Programs

ABSTRACT

Presented is an evaluation of a summer program which consisted of individualized and small group instruction in reading and arithmetic, recreational activities, and field trips designed to promote academic and socialization skills for 506 handicapped children. The program is noted to have had four components: severely emotionally handicapped, hearing handicapped, multiply handicapped, and preplacement (multiple learning disordered). Among findings and conclusions discussed are that at least 93% of the children met at least one instructional objective; that the children received outstanding instructional experiences; and that the exemplary program performance is based, in large part, upon the system of setting concrete instructional goals for each child (criterion referenced testing). Also identified as contributory to the program's success were excellent staff skills which provided enthusiastic learning environments, and the concept of breaking the instructional day into academic and recreational segments. Appended materials include descriptions of the criterion referenced tests used and results in tabular form. (IM)

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EVALUATION REPORT

FUNCTION NO. 09-61625(b)

SUMMER PROGRAM FOR READING AND MATHEMATICS FOR HANDICAPPED PUPILS IN SPECIAL EDUCATION CLASSES (DSEPPS)

(SEVERELY EMOTIONALLY HANDICAPPED, HEARING IMPAIRED, MULTIPLY HANDICAPPED, PRE-PLACEMENT)

U.S. DEPARTMENT OF HEALTH.
EDUCATION & WELFARE
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SHERWOOD B. CHOROST, PH.D.

AN EVALUATION OF A NEW YORK CITY SCHOOL DISTRICT EDUCATIONAL PROJECT FUNDED UNDER TITLE I OF THE ELEMENTARY AND SECONDARY EDUCATION ACT OF 1965 (PL89-10) PERFORMED FOR THE BOARD OF EDUCATION OF THE CITY OF NEW YORK FOR THE SUMMER OF 1975.

Dr. Anthony J. Polemeni, Director



DOARD OF COUCATION OF THE CITY OF NEW YORK OFFICE OF EDUCATIONAL EVALUATION 110 LIVINGSTON STREET, DROOKLYN, N. Y. 11201

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Introduction

This evaluation report covers four target populations within the 1975 Summer program of Reading and Mathematics for Handicapped Pupils in Special Education Classes. The specific components reviewed include: severely emotionally handicapped, hearing handicapped, multiply handicapped and preplacement (multiple learning handicapped) children. Each component is considered separately in this report.

I. The Pregram

Characteristics of the target population in each of the four program components are as follows:

A. Severely Emetionally Handicapped. This component is made up of two subgroups: 1. Transitional classes, which include 27 severely emetionally handicapped children who have been in residential treatment, such as institutions or city or state hospitals, or who are in outpatient treatment.

2. The Teacher-Moms classes, which service 54 multihandicapped, asocial, and atypical children on an individualized and small group bases.

B. Hearing Handicapped. This consists of classes for 85 hard of hearing and deaf children who are normally enrolled in regular classes in elementary and J.H.S., and are provided with supportive instruction either from the Itinerant Program or from the Resource Room Program. These children have hearing losses ranging from mild to profound.

C. Multiply Handicapped. This consists of classes for 70 children who are mentally retarded and generally exhibit



severe multihandicapping conditions, including limitations of mobility, gait, vision, speech, etc. Pupils ranged in age from 7 to 17 years, and were selected for the summer program on the basis of teacher observations and recommendations, and parental request or approval.

<u>D. Preplacement</u>. This consists of 270 Title I eligible handicapped pupils, ages 5-12 years, with multiple learning disorders who are in the process of being placed into appropriate special education settings.

The summer pregram ran from July 7 through August 13, 1975. The 506 Title I eligible pupils selected for the four compenents of the pregram were characteristically at least two or more years retarded in reading and/or mathematics. Criterion referenced tests in reading and arithmetic were administered at the start of the program period, and specific instructional objectives were identified for each child. Post testing was administered at the end of the program to determine the amount of pupil mastery as a result of participation in the program.

In each of the four programs, the curriculum included an academic segment, focused around individual and small group remediation, and a recreation segment (usually at the end of the instructional day, planned in advance by the teacher and section administrator) which was tied to specific teaching objectives (eg: vocabulary development, writing skills,



reading skills, computational sklls, socialization sklls, conceptual enrichment, etc.). Every teacher had a folder for each child which included background information, test data (from criterion reference tests) and a write-up of individualized and specific instructional objectives for the summer.

II. Evaluation Procedures

As stated in the pregram preposal, there are three evaluation objectives: (1) To determine if, as a result of participation in the program, seventy percent (70%) of the pupils master a least one instructional objective which prior to the program they did not master. (2) To determine, as a result of participation in the program, the extent to which pupils demonstrate mastery of instructional objectives. (3) To determine the extent to which the program, as actually carried out, coincided with the program as described in the project proposal.

Each instructional objective (in reading and arithmetic) was diagnosed as requiring remediation as determined by pretest failure and was selected by the teacher for each child on an individual basis. Posttesting with each child on initially failed and selected items after an appropriate interval of instruction determined the success or failure of reaching the individual objectives.

The instrument used to measure mastery in reading was the Random House Criterion Reading Tests, and in arithmetic, the American Guidance Service KeyMath Test (for Severely Emotionally Disturbed, Multiply Handicapped and Preplacement components). For the Hearing Handicap component, elements of the Croft Biagnostic Word Analysis and Diagnostic Comprehension Tests were selected to measure reading mastery. Teacher definal speech articulation objectives were added as necessary. No test for arithmetic mastery was used in this component.

With regard to objective #3, there were several externally imposed conditions which limited the efficiency of the program in each of the four components. First, the late date of funding for the project played havec with lists of children initially accepted into the program. Because parents had no definite word until July 1 whether the program would actually open, many made alternate plans for their children. For example, at one site of the Preplacement program, of 50 children originally enrolled in the summer classes, none were available on July 7. Staff and administration showed exemplary skill in selecting 42 program eligible children - most of whom were not on the original list.

Second, except where summer program classes were scheduled in regular year around sites (e.g. Teacher Moms and Transitional classes) teachers had to cope with supply shortages, again in large part due to late program funding. A major deficit in this area was the late arrival



and late staff training in the use of the measurement instruments themselves. In some cases, pretesting on the criterion referenced tests was delayed 2 to 3 weeks in the six week program. This obviously attenuated measurement gains and restricted teacher time devoted to remediation in specific instructional objectives.

Third, a mest serious and pervasive factor throughout the 6 week period was the unintentional reduction of each instructional day by delays in bus arrivals at each unit in each of the four program components. On one planned observation, teachers and supporting staff awaited the arrival of the buses until 10:30 A.M. (1½ hours late!) when the first children began to enter the classroom. Because of limited bus facilities, travel time on route to the program may have been up to 2½ hours (7:30 A.M. pick-up to 9:30 or 10:00 A.M. arrival). Observed daily attendance in the programs and between the four components varied considerably, and was critically low for the entire first week owing to coordination difficulties with parents and busing. Observations during August indicated about 85% average attendance.

Discrepancies in numbers of children in the program were minimal. For the most part this was determined by the consultant's counting of names on all teacher data rosters. (Program administrators counted children at the end of the summer.) This report counted 81 children in the Severely Emotionally Handicapped component (no discrepancy); 85 children in the Hearing Handicapped component of the program (against a reported 87); 70 children in the Multiply Handicapped component (against a reported 73); and 270 children in the Preplacement



component (against a reported 264). Thus the total number of children covered in this report is 506 (against a reported 505).

III. Findings

Evaluation objective #1, "To determine if, as a result of participation in the program, 70% of the pupils master at least one instructional objective which, prior to the program, they did not master."

In each of the four program components the primary objective was exceeded by a wide margin.

- A. Severely Emetionally Handicapped: 77 of 81 children (95%) achieved at least one instructional objective.
- B. Hearing Handicapped: 79 of 85 children (93%) gained at least one objective.
- C. Multiply Handicapped: 66 of 70 children (94%) met at least one instructional objective.
- D. Preplacement: 256 of 270 children (95%) met at least one instructional objective.

Evaluation objective #2, "To determine, as a result of participation in the program, the extent to which pupils demonstrate mastery of instructional objectives."

There was a wide variation in teacher designation of instructional objectives. Late funding, late arrival of testing materials, and uneven staff training in test procedure contributed to this fact. Some teachers stopped testing after identifying one error on the reading and arithmetic

recorded several errors and selected one item to teach and retest. Few teachers recorded pretest successes (thereby providing insufficient data for the tables presented in the appendices.) Some teachers kept teaching and testing sequentially after post-testing successes. Others did not. This is reflected in a spuriously low number of identified instructional objectives. (Pretest failures not retested were not included as objectives for the purpose of the study.)

Tables 30A to 30P incorporate the summary data which will be cited in this report. The tables are paired (30A with 30C, etc.) so that, for each of the four components, pretest and posttest data are first presented based on the number of pupils passing and failing, and then on the number of items (instructional objectives) passed and failed.

A. Severely Emetionally Handicapped: Of 119 instructional items in reading, representing the number of objectives across schools, 101 (85%) were passed on posttest. Sixteen percent (13/81) of the children in this component passed 3 or more reading objectives. Of 127 arithmetic instructional items, 99 (78%) were passed on posttest, and 7% (6/81) of the children passed 3 or more arithmetic objectives. See Tables 30I, 30J, 30K and 30L.

B. Multiply Handicapped: Of 211 instructional items in reading, 158 (75%) were passed on posttest, and 46% (32/70) of the children in this component passed 3 or more reading objectives. Of 187 arithmetic instructional items, 140 (75%) were passed on posttest, and 39% (27/70) of the children passed 3 or more arithmetic ob-



jectives. See Tables 30E, 30F, 30G and 30H.

C. Hearing Handicapped: Of 274 identified instructional items in reading, 193 (70%) were passed on posttest, and 48% (34/85) of the children in this component passed 3 or more reading objectives. Of 49 teacher defined speech articulation items, 49 (100%) were passed on posttest. See Tables 30A, 30B, 30C and 30D.

D. Preplacement: Of 518 instructional items in reading, 486 (94%) were passed on posttest, and 24% (64/270) of the children passed 3 or more reading objectives. Of 551 arithmetic instructional items, 486 (94%) were passed on posttest, and 23% (63/270) of the children passed 3 or more arithmetic objectives. See Tables 30M, 30N, 30-0 and 30P.

The balance of this section deals with non-quantitative findings and recommendations.

A. Severely Emetionally Disturbed

Administration has provided staff with ample teaching supplies (a problem in the other components). The program was excellently organized, based on behavior modification principles, and the engineered classroom concept. The continuity of structure from the year round program was an important factor in how much work was accomplished in each class observed. Daily log and narrative summaries from prior teachers were found in almost every child's folder. Lesson plans were written very concretely, and were based on the criterion reference test results. This enabled teachers and paraprofessionals to focus on instructional objectives according to preset plans. The recreation segment of



each class day seemed well integrated into the teaching objectives of the program. The Teacher-Mom classes made excellent use of space through utilization of private work enclosures and functional group instructional areas.

This appears to be an exemplary program from the view-point of administrative and teaching excellence. Needs of children with severe emotional handicaps appear to be met with regard to promoting growth in academic and socialization (including impulse control) areas.

B. Hearing Handicapped

No arithmetic instructional objectives were established. It would have been better had these been included, as the educational needs of hearing handicapped children include quantitative skills, particularly since these children attend regular classes in elementary school and junior high school. A positive aspect of this component was that the supervisor and teachers identified particular speech articulation needs of 49 of the children and included criterion referenced items in this area in the remediation planning.

Observation in several classes of hearing handicapped children showed that many children who had hearing aids prescribed were not wearing them to class (10 of 21 were without their aids). It is strongly recommended that teachers make systematic efforts to check for the presence of aids (in good working order) and for the program to effor any necessary information and/or counselling to parents

where indicated, pessibly through the Itinerent Teacher component.

The administration of the program was in particular need of more transportation facilities. Eighteen children eligible and in need of help through the summer program had to be excluded because they could not be transported. And bus routing was very long. One bus had to pick up children throughout Queens, and another throughout all of the Bronx, for delivery to and from the Manhattan site.

Recommendation is also made to review the physical plant of future classes assigned for hearing handicapped children. The class structure during the summer of 1975 left much to be desired with regard to freedom from ambient noise and to acoustical properties.

C. Multiply Handicapped

Records generally contained little information from previous teachers (though many children were well known by program personnel). Many of the children were profoundly orthopodically or neurologically limited and many test items in the criterion reference battery were not relevant to this population. Administration emphasized that the program was designed to produce a camplike structure while reaching instructional objectives. Good attendance and a very enthusiastic mood was noted in each class in this component. There was good use made of one teacher's background in speech therapy in one unit of the program. One unmet, and



unspecified need for this population was for sufficiently trained staff with more materials relevant to providing occupational, music, art, and physical therapy. Swimming was an excellent physical therapy experience for this group (needed to develop motor skills and reduce fear and awkwardness). Licensed life guards were provided. Multisensory approaches to presentation of information were excellent.

Recommendation is made for a thorough reappraisal of the structural facilities of buildings to house the Multiply Handicapped. For example, at P.S. 52, children with severe orthopedic limitations could use a ramp leading to the play-ground and bars in the hallway and bathrooms to aid the semi-ambulatory. Recommendation is also made for improved coordination of information between M-H classes and services being provided for children in various agencies and hospitals outside of school.

D. Preplacment

This component was most seriously effected by the late funding date, yet recovered due to energetic reorganization by administration and teaching staff. Teachers developed daily lesson plans which were noted in each individual student's folder, and contained much information, including sending teacher data. A distinct service to each of the children in the summer proplacement program is the effort taken by staff to pull together a "Summary of Work" report which is ticketed to go to the child's teacher in the Fall. These reports contain



clear, concrete instructional information and a statement of the child's social and emotional adjustment. There was excellent coordination of recreational segments of the day into a total instructional framework (experience charts, logs, etc.) to enrich the specific reading and arithmetic objectives.

It is recommended that teachers be provided with more materials to meet instructional objectives. Late start-up and delay in receipt of ordered supplies reduced the availability of materials-oriented stimulation. As a possible side effect, teachers were engaged in instructing the entire class as a group much of the time. It is recommended that a high priority be set for writing of instructional objectives in the future, so that teachers can more effectively distribute their time to engage in individual remediation. As it was, the Preplacement program did a very creditable job in meeting the needs of its children.

IV. Summary of Major Findings, Conclusions and Recommendations

- 1. Each of the four program components experienced difficulty in student attendance for the first one or two weeks of the summer. Student lateness due, in part, to extended bus routes, shortened the planned daily program by 1 to 1½ hours. Late funding and delayed shipment of ordered supplies also produced a disruptive start-up element.
- 2. Despite the above limitations, all four programs demonstated exemplary results. Ninety-five percent (95%) of children



in the Severely Emetionally Disturbed classes passed at least one instructional objective; 93% of Hearing Handicapped children passed at least one objective; 94% of children in classes for Multiply Handicapped passed at least one objective; and 95% of children in the Preplacement classes passed at least one objective.

- 3. Each child seemed to experience a program of enrichment in academic and socialization skills. The recreation segment of each day was uniformly well integrated into the goal of meeting reading and arithmetic instructional objectives.
- 4. On the basis of the quantitative and qualitative findings summarized above, the major program alm has clearly been satisfied. Recommendation is made for continuity of the program.
- 5. The concept of criterion referenced testing was introduced as a new procedure for evaluation of program effectiveness in 1975. This was a significant break from the norm referenced concept of evaluation in the preceding years of the Title I grants. One finding which was unanimously shared by teachers and supervisors in the program was that criterion referenced testing is an extremely useful concept for both measurement and teaching. Future use of this modality is strongly recommended as providing clearer statements of instructional goals, and thus sets the stage for more systematic and better teaching.
 - 6. The pregram could be improved through uniformly early



criterien referenced testing and initial selection of at least three objectives in reading and arithmetic. With earlier notification of funding, teachers should have six full weeks of instruction time, rather than the 4½ or 5 weeks, as in 1975. The problem of transporting handicapped children over long distances so that they arrive at 9:00 A.M. has yet to be resolved. More buses and more sites may help with this logistical problem.

- 7. Underutilization of class lines, on the average of about 20% daily, might be handled through eversubscription, since some parents do make later alternative plans for their children despite accepting places for the summer program in the spring. This was noted by the previous evaluator, Dr. James Boudouris, and the problem persists.
- 8. Each teacher should prepare a narrative adjustment report of each child in her class for transfer to his receiving teacher. Such reports with specification of concrete instructional objectives can extend summer program benefits into the year round program.

ABSTRACT

SUMMER PROGRAM OF READING AND MATHEMATICS FOR HANDICAPPED PUPILS IN SPECIAL EDUCATION CLASSES

(D.S.E.P.P.S.) FUNCTION NO. 09-61623

This summer pregram, funded through Title I, included four components for handicapped children -- severely emotionally disturbed, hearing handicapped, multiply handicapped, and preplacement classes.

The pregram ran from July 7 through August 13, 1975 and consisted of individualized and small group instruction in reading and arithmetic, recreational activities and field trips designed to promote academic and socialization skills.

In each of the four program components, at least 93% of the children enrolled met at least one instructional objective. In general, the evaluation indicated that the children received outstanding instructional experiences. Credit for everall exemplary program performance is based, in large part, upon the system of setting up concrete instructional goals for each child (criterion referenced testing). Excellent supervisory, teaching and paraprofessional staff skills in motivating handicapped children by providing enthusiastic learning environments was strongly aided by the concept of breaking the instructional day into academic and recreational segments.

The University of the State of New York THE STATE EDUCATION DEPARTMENT Bureau of Urban and Community Programs Evaluation Albany, New York 12234

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1974-75 School Year

Due Date: July 15, 1975

BE Function Number (N.Y.C. only)

Description Number (N.Y.C. only)

Project Title SUMMER PROJECT OF READING AND MATHEMATICS FOR HANDI-GAPPED PUPILS IN SPECIAL EDUCATION CLASSES - D.S.E.P.P.S.

School District Name D.S.E.P.P.S.

School District Address 110 Livingsten Street

Breeklyn New York 11201

Name and Title of Person Completing this form:

Mane Sherweed B. Cherest, Ph.D.

Title Censultant-Evaluator

Telephone Number 212 596-8376

Date this form was completed _



31. A This question is designed to describe the attainment of approved objectives not normally associated with measurement by norm referenced standardized achievement tests. Such objectives usually deal with behavior that is indirectly observed, especially in the affective domain. For example, a reduction in truancy, a positive change in attitude toward learning, a reduction in disruptive behavior, an improved attitude toward self (as indicated by repeated interviews), etc., are frequently held to be prerequisite to the shift toward increased academic achievement by disadvantaged learners. Where your approved measurement devices do not lend themselves to reporting on tables 26, 27, 28, or 29, use any combination of items and report on separate rages. Attach additional pages if necessary. SEVERELY EMOTIONALLY HANDICAPPED Component Code Activity Code Objective Code 30 Brief Description The Criterien Reading Test measured mastery in the fellowing categories: auditory input with meter response, phonology, and syntax. Number of cases observed: 8 1- Number of cases in treatment: Pretreatment index of behavior (Specify scale used): Criterion of success: Mastery was defined as success on items selected as instructional objectives following pretest failure. Was objective fully met? Yes X No If yes, by what criteria do you 90% (73/81) of the children passed at least one instructional objective in reading. Comments:



31. B. This question is designed to describe the attainment of approved objectives not normally associated with measurement by norm referenced standardized achievement tests. Such objectives usually deal with behavior that is ind@rectly observed, especially in the affective domain. For example, a reduction in truancy, a positive change in attitude toward learning, a reduction in disruptive behavior, an improved attitude toward self (as indicated by repeated interviews), etc., are frequently held to be prerequisite to the shift toward increased academic achievement by disadvantaged learners. Where your approved measurement devices do not lend themselves to reporting on tables 26, 27, 28, or 29, use any combination of items and report on separate bages. Attach additional pages if necessary. SEVERELY EMOTIONALLLY HANDICAPPED Component Code Activity Code Objective Code 30 Brief Description The KeyMath Test measured mastery in the fellewing categories: numeration, addition, subtraction, and multiplication. Number of cases observed: 1811 Number of cases in treatment: Pretreatment index of behavior (Specify scale used): Criterion of success: Mastery was defined as success en items selected as instructional objectives following pretest failure. If yes, by what criteria do you Was objective fully met? Yes X No 90% (73/81) of the children passed at least one instructional objective in arithmetic. Comments:



31. C This question is designed to describe the attainment of approved objectives not normally associated with measurement by norm referenced standardized achievement tests. Such objectives usually deal with behavior that is indirectly observed, especially in the affective domain. For example, a reduction in truancy, a positive change in attitude toward learning, a reduction in disruptive behavior, an improved attitude toward self (as indicated by repeated interviews), etc., are frequently held to be prerequisite to the shift toward increased academic achievement by disadvantaged learners. Where your approved measurement devices do not lend themselves to reporting on tables 26, 27, 28, or 29, use any combination of items and report on separate pages. Attach additional pages if necessary.

HEAR	RING HANDICAPPED
Component Code	Activity Code Objective Code
6 0 8 6 1	7 2 0 8 1 3
Brief Description The Cref	ft Reading Test measured mastery in the
fellewing categories: le	etter recognition, consumnts, vevols,
structural analysis, and	i comprehension.
Number of cases observed:	8 5 Number of cases in treatment: 8
Pretreatment index of behavio	or (Specify scale used):
Criterion of success: 89% ((76/85) of the children passed at least
ene instructional object	ive in reading.
Was objective fully met? Yes	s X No If yes, by what criteria do you
	ed as success en items selected as
	s fellowing pretest failure.



Comments:

32.	Program Abstract: Please provide an abstract of your project, including aspects of the project which account for highly positive results. Provide a summary of the findings in relation to the objectives, as well as a description of the pedagogical methodology employed.
33.	Date activities began 7 / 1 / 75 Mo. Day Yr. Date activities will terminate 8 /13 / 75 Mo. Day Yr.
34.	Project time span School (check one): 1 Year 2 X Summer 3 1 12 Mos. 4 1 year
35.	Project is: 1 New 2 X Resubmitted 3 Continuation (Title III only)
	A. If project is resubmitted, please indicate number of years operated:
	2 years X 4 years 3 years 5 or more years



Measures of growth other than Standardized Tests 31. D. This question is designed to describe the attainment of approved objectives not normally associated with measurement by norm referenced standardized achievement tests. Such objectives usually deal with behavior that is indirectly observed, especially in the affective domain. For example, a reduction in truancy, a positive change in attitude toward learning, a reduction in disruptive behavior, an improved attitude toward self (as indicated by repeated interviews), etc., are frequently held to be prerequisite to the shift toward increased academic achievement by disadvantaged learners. Where your approved measurement devices do not lend themselves to reporting on tables 26, 27, 28, or 29, use any combination of items and report on separate pages. Attach additional pages if necessary. MULTIPLY HANDICAPPED Component Code Activity Code Objective Code 0 8 6 30 817 Brici Description The Criterion Reading Test measured mastery in the following categories: meter skills, visual input with meter response, auditory input with meter response, phenelegy, 0

SULUCTULET AILS					
Number of cases o	bserved:	7D Numbe	r of cases	in treatme	nt: 7
Protreatment inde	x of behavio	r (Speci‼y scal	c used):	·	
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					-
		**			
•					as and the fine field of
ene instruction Was objective full	ly met? Yes	X No	If yes, by w	hat criter	ia do you
		ed as success			d as
instructional o	bjectives	fellewing pr	etest fai	lure.	· .
Comments:					
					



not normally associated with measurement by norm referenced standardized achievement tests. Such objectives usually deal with behavior that is indirectly observed, especially in the affective domain. For example, a reduction in trusney, a positive change in attitude toward learning, a reduction in disruptive behavior, an improved attitude toward self (as indicated by repeated interviews), sto., are frequently held to be prerequisite to the shift toward increased academic achievement by disadvantaged learners. Where your approved measurement devices do not lend themselves to reporting on tables 26, 27, 28, or 29, use any combination of items and report on separate bages. Attach additional pages if necessary.

MULTIPLY HANDICAPPED

Component Co	MULTIPLY HAN	DICAPPED ity Code	Objective Co	ode	
6 0 9 6	5 1 7	2 0	8 0 1]	30
Brief Description Ti	ne KeyMath Te	st measure	d mastery i	n the fell	Lew-
ing categories:	numeration.	fractions	symbols.	addition.	anp-
traction, multip	olication, di	visi e n. me	ntel cemput	ation, nu	erical
reasoning. werd	· ·				70
Pretreatment index	of hehavior (Spe	cify scale w	med):		
Criterion of succes		1 .	. –		ıst.
ene instruction			_		
Was objective fully know? Mastery w	met? Yes X	****	yes, by what n items se		
instructional ob	jectives fell	ewing pret	est failure)	
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Comments:					
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11. F. This question is designed to describe the attainment of approved objectives not normally associated with measurement by norm referenced standardized achievement tests. Such objectives usually deal with behavior that is indirectly observed, especially in the affective domain. For example, a reduction in truancy, a positive change in attitude toward learning, a reduction in disruptive behavior, an improved attitude toward self (as indicated by repeated interviews), etc., are frequently held to be prerequisite to the shift toward increased academic achievement by disadvantaged learners. Where your approved measurement devices do not lend themselves to reporting on tables 26, 27, 28, or 29, use any combination of items and report on separate pages. Attach additional pages if necessary.

PREPLACEMENT Objective Code Component Code Activity Code 30 801 Brief Description The Criterien Reading Test measured mastery in the fellowing categories: meter skills, visual input with meter response, auditory input with meter response, shenelegy, structural analysis, vecabulary, syntax, and comprehension, Number of cases observed: 2 7 0 Number of cases in treatment: Pretreatment index of behavior (Specify scale used): Criterion of success: Mastery was defined as success en items selected as instructional objectives following pretest failure. Was objective fully met? Yes X No If yes, by what criteria do you know? 87% (234/270) of the children passed at least one instructional objective in reading.



Component Code

31. GThis question is designed to describe the attainment of approved objectives not normally associated with measurement by norm referenced standardized achievement tests. Such objectives usually deal with behavior that is indirectly observed, especially in the affective domain. For example, a reduction in truency, a positive change in attitude toward learning, a reduction in disruptive behavior, an improved attitude toward self (as indicated by repeated interviews), atc., are frequently held to be prerequisited to the shift toward increased academic achievement by disadvantaged learners, where your approved measurement devices do not lend themselves to reporting on tables 26, 27, 28, or 29, use any combination of items and report on separate bages. Attach additional pages if necessary.

PREPLACEMENT

Activity Code

6 0 9 6 1	2 7 0			30
Brief Description The Ke	yMath Test mes	sured maste	ry in the	
fellowing categories:	numeration, f	ractions, s	ymbels, add	iti e n,
aubtraction, multipli	cation, divisi	en, numeric	al reasonin	g, word
preblem, meney, measu				
Number of cases observed:	2 7 0 Numb	er of cases in	treatment:	2 7 0
Pretreatment index of beha	vior (Specify sca	le used):		
		:		. ·
• • • • • • • • • • • • • • • • • • • •				
	200 April 1997			
			,	
Criterion of success: Ms	stery was def	ined as succ	ess en item	8
selected as instructi	enal objective	s fellowing	pretest fa	ilure.
Was objective fully met?	and the second s			
know? 91% (247/270)				
tienal ebjective in a	• "			
	<u> </u>	·		
Comments:	*			
WANTED 1		,		4 - 1 - 1
	·			



30A Criterion Referenced Test Results: In the table below, enter the requested information about criterion referenced test results used to evaluate the effectiveness of short treatments (less than 60 hours) in reading or mathematics. Use the instructional objective codes provided on pp.2-4 of the instruction manual. Provide only those instructional objective codes which were addressed by the treatment and provide separate data for only those instructional objective codes which were addressed by the treatment and provide separate data for each test used and each level tested. Use additional sheets if necessary. Record in columns 2, 3 and 4 only those participants who completed both tests. HEARING HANDICAPPED

		1.5				Prete	est	اسمسمحك	test
Code	Instructional	Publisher	Level	Component Code	Subgroup	No. cf I	Pupils Failing	No. of Pupils from Col. 2	No. of Pupils from Col. 2
	Objective			1		(1)	(2)	Passing	Failing
111	letter receg.	Creft	P	60861	Н	ins.deta	15	10(67%)	5 (33%
102-3	letter receg. censenants	Creft	P	60861	H	11 11	54	43(80%)	11(20%
-	vowels	Croft	P	60861	H	ti ii	9	1(11%)	8 (89%
200		Creft	Р	60861	Н	n H	42	36(86%)	6 (14%
400		Creft	P	60861	Н	н п	48	38(79%)	10(21%
	TOTALS			60861	H				
•			3. 3.						
מחפ									
30B 2507	speech artie.	tcher defined		608 61	7:	ins.data	149	49(100)	0(0%)
10(0									, .
	NO MATH EVALUAT	TON		60961	Н	X	X	X	
	MV_UB4A								
						:			
<u></u>									• • • • • • • • • • • • • • • • • • •

Indicate the component code used in previous sections of this report used to describe treatment and population.

Provide data for the following groups separately: Neglected (code as N), Delinquent (code as N), Bilinqual code as S) and Handicapped (code as H). Place the indicated code letter in the last column to signify the subgroup evaluated.

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20. Criterian Referenced Test Results: In the table below, enter the requested information about criterion referenced test results used to evaluate the effectiveness of short treatments (less than 60 hours) in reading or mathematics. Use the instructional objective codes provided on pp.2-4 of the instruction manual. Provide only those instructional objective codes which were addressed by the treatment and provide separate data for each test used and each level tested. Use additional sheets if necessary. Record in columns 2, 3 and 4 only those participants who completed both tests. HEARING HANDICAPPED

				-	Pret		Posttest		
				0		No. of	FORE #	items.	items
Code	Instructional Objective	Publisher	Level	Component Code 1/	Subgroup		Failing	from Col. 2	from Col. 2
				-		(1)	(2)	Passing	Failing
2101	letter recegn.	Creft	P	60861	Н.	insufd a	17	11(65%)	6 (35%
21 08 ,9	censenants	Creft	P	60861	Н	W W	90	70(78%)	20(229
106-7	vovels	Creft	P	60861	Н	11 11	9	1 (11%)	8 (89)
2200	struct, analys,	Greft	P	60861	Н	N N	63	44 (70%)	19(30)
400	comprehension	Creft	P .	60861	H	H H	95	67 (71%)	28(29)
	TOTALS	Creft	P	60861			274	193=749	81=261
						1		, 11	
30D			,.	Hand to be call to the comme	· · · · · · · · · · · · · · · · · · ·	,			· ·
507	speech artie.	teher defined		60861	Н	W 11	49	46=94%	3 = 6%
			,						
	NO MATH RVALUAT	TON		60961		χ	X	Х	_ X _
									*
1	* total number	of items							

Indicate the component code used in previous sections of this report used to describe treatment and population.

Provide data for the following groups separately: Neglected (code as N), Delinquent (code as D), Bilingual code as S) and Handicapped (code as E). Place the indicated code letter in the last column to signify the subscreen evaluated.

31

30. Exiterion Referenced Test Results: In the table below, enter the requested information about criterion to ferenced test results used to evaluate the differintness of short treatments (less than 50 hours) in region or mathematics. Use the instructional objective codes provided on pp.2-4 of the instruction manual. Privious only those instructional objective codes which were addressed by the treatment and provide separate data for each test used and each level tested. Use additional sheets if necessary. Record in columns 2, 3 and 4 only those participants who completed both tests. MULTIPLY HANDICAPPED

			**	ADT TO THE	m. + 444 + 1				1
						Prete	85	_	test
Code	Instructional Objective	Publisher	Level	Component Code 1/	Subgroup	No. of Passing	Pupils Failing (2)	No. cf Pupils from Col. 2 Passing	No. of Pupils from Col. 2 Failing
	Moter skills	Randem Heuse	1	60861	Н	ins, dats	34	23(68%)	9 (32%)
	Vis.input-met.	n Ç	1	60861	H	11	33	25(76%)	8 (24%)
	Aud.input-met.	11	1	60861	ii ·	17	39	32(82%)	7 (18%)
2100	Phonology	Random House	2	60861	Н	11	10	7 (70%)	3 (30%)
2200	Struct. Analysis	ti ti	2	60861	H	11	2	1 (50%)	1 (50%)
2300	Vecabulary	18 74	2	60861	H	,,	12	12(1009	() 0(0%)
2207-8	Syntax	H 11	2	60861	H	10	5	5(100%	0(0%)
2400	Comprehension	n u	2	60861	H	H	4	4(1-00%	0(0%)
2100	Phonelogy	Random House	3	60861	Н	н	3	3(100%	0(0%)
2200	Struct, Analysis	11	3	60861	H	n	2	2(100%	0(0%)
2300	Vocabulary	10 11	3	60861	H	11	4	3(75%)	0(0%)
	Syntax	н н	3	60861	H	W	3		1 (33%)
2400	Comprehension	H #	3	60861	Н	•	1		0(05)
							1 1		

^[1] Indicate the component code used in previous sections of this report used to describe treatment and population.

[2] Provide data for the following groups separately: Englected (node as N). Delinquent (node as D). Milingual code as B) and Randicapped (node as N). Place the indicated node letter in the last column to signify the subgroup evaluated.

30. Figureships Persented Test Results: In the table below, onter the requested delignmenter about existence ferenced test regults used to evaluate the effectiveness of short treatments that then 30 forms) in taking or mathematics. Use the instructional objective codes provided on pp.2-4 of the resultation wants. It will only those instructional objective nodes which were addressed by the treatment and provide separate data for each test used and each lavel theses. The additional shorts if necessary. Record in columns 2. 3 and a unit those participants who completed both tests.

MULTIPLY HANDICAPPED

						Prete			ttest
Code	Instructional Objective	Publisher	Level	Component Code	Subgroup	No. of Passing	Pupils Failing (2)	No. of Pupils from Col. 3 Passing	Mo. of Funits Orion Col. 2 Failing
L100	numeration	Amer.Guid.Serv		60961	Н	ns,data		16(59%)	
1103	fractions	AGS		60961	H	11	11	10(91%)	1 (9%)
1200	geemetry, symbols	П	<i>i</i> .	60961	H	11	34	31 (91%)	3 (9%)
1107	addition	н		60961	H	n	20	18(90%)	2 (10%
1108	subtraction	н		60961	н	H.	12	10(83%)	2 (17%
109	multiplication	11		60961	H	Н	3	2(67%)	1 (33%)
110	divisi•n	11		60961	ĥ	***	1	1(100%)	0 (0%)
800	mental computa.	H	,	60961	Н	11	1	1(100%)	0 (0%)
1800	numerical reas.	н		60961	Н	11	2	1 (50%)	1 (50%
1900	werd preblems	W		60961	H	н	2	2(100%)	0 (0%)
1305	neney	н		60961	H	п	18	13(72%)	5(38%)
1300	measurement	п		60961	Н	н	11	11(18%)	0 (0%)
1306	time	II		60961	H	H	20	14(70%)	6(30%)

^{1/} Indicate the component code used in previous sections of this report used to describe treatment and population.

Provide data for the following groups separately: Neglected (code as N), Delinquent (code as D), Bilingual code as B) and Handicapped (code as H). Place the indicated code letter in the last column to signify the subgroup evaluated.



20. Criterion Referenced Test Results: In the table below, enter the inquested adjunction about criterion ferenced test results used to evaluate the effectiveness of short treatments for the instructional of ours) in to or mathematics. Use the instructional objective codes provided on pp.2-4 of the instruction madua. In only those instructional objective codes which were addressed by the treatment and provide adjuncte data each test used and each level tested. Use additional sheets if necessary. Record in column and those participants who completed both tests.

		•				Pre.		No. of	
Code	Instructional Objective	Publisher	Level	Component Code	Subgroup 2	Pas (1)	Failing	Puptis	Toolis from Col. 2 Failing
	meter skills	Randem Heuse	1	60861	H	ins.data	37	22(59%)	15(41%
	vis input-met.	N 11	1	60861	H	N	39	31 (79%)	8(21%)
	and imput-met.	и и	1	60861	H	0	82	63(77%)	19(23%
¥100	phonology	Randem Heuse	2	60861	Н	11	11	6(55%)	5(45%)
2200	struct.analysis	W H	2	60861	Н	N	2	1 (50%)	1 (50%)
2300	veerbylary	HZ N	2	60861	H	n	12	12(100)	0(0%)
207-8	syntax	u #	2	60861	H	1,0	5	5(100%	0(0%)
400	eemprehensien	8 N	2	60861	Н	Settle Se	5	5(1-00%	0(0%)
2100	phenelegy	Randen House	9	60861	H	W	5	2(40%)	3(60%)
2200	struct.analysis	H H	3	60861	H		2	2(180%	0(0%)
2300	vecabulary	•	3	60861	H	•	5	4(80%)	1(20%)
2207_8	sy ntax	1	3	60861	H		5	4(80%)	1(20%)
440	semprehensien	N N	3	60861	H		1,	1(100%	0(0%)
, , , , , ,	TOTALS		1,2,3				211	158=75	53=25%

If Indicate the component code used in grevious sections of this report used to describe treatment and population.

If Provide data for the following groups separately: Reglected (code as II), Delinquent (code as II), Bilingual code as II). Place the indicated code letter in the last column to signify the subgroup evaluated.

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30. Hribstung Paderoncod Tes. Provides II the bable index, enter the networks in the contract of the contract

				1		Prete	81	Post	1001
						No. of t	ițems	No. :1	
Coce	Instructional Objective	Pubiisher	Level	Component Code	Subgroup	<u>. </u>	Fulling	Paring #	*-*item
	00]2022.					111	(2)	Passing	Full str
1100	numeration	Amer.Guid.Ser		60961	Н	ins,data	34	18(53	<u>%)</u> 16(47%)
1103	fractions	11		11	Н	11 1	11	10(91%)	1(9%)
1200	geem.symbels	11			Н	H ·	36	30 (83%)	7(17%)
1107	addition	n		n .	Н	- н	23	21 (91%)	2(9%)
1108	subtraction	н		n the	Н	ti .	12	10(83%)	1 (17%)
1109	multiplication	п		11	H	11		1(33%)	2(67%)
1110	divisien			11	Н	'n	1	1(100%)	0(0%)
1800_	mental computa.	1	,	н	Н	11	<i>a</i> 1	1(100%)	0(0%)
1800	numer.reasen.	11		11	H	н	12	1 (50%)	1 (50%)
1900	werd preblems	11		11	Н	11	1	2(100%	0(0%)
1305	meney	Ħ		п	Н	10	25	18(72%)	7 (28%)
1300	measurement	Ħ		11	Н	11	"11	11(1009) 0(0%)
1306	time	Ħ		н	Н	11	26	16(62%	10(38%)
	TOTALS			60961	Н		1,87	140=75%	47=25% 30

^{1/} Indicate the component code used in previous sections of this report used to describe treatment and population.

2/ Provide data for the following groups separately: Neglected (code as N), Delinquent (code as D), Bilingual code as B) and Handicapped (code as H). Place the indicated code letter in the last column to signify the subgroup evaluated.

^{*}tetal number of items



30. I Grinshler Defendance Test Tarable. To the cable below, there the provented movement is constituted and controlly a constitute of the provented the provented that the constitute of the provented that the constitute of the province of the province of the constitute of the control of the constitute of the control of

					7	Pretest		Posttest	
Code	Instructional	Publisher	Level	Component Code	Subgroup	Passing		No. 11 Papil:	Vol. 1. upil: :::::::::::::::::::::::::::::::::::
i de la companya de l	Objective			1.	<u>.</u>		(2)	Passing	
	aud, input met.r.	Randem Heuse	1	60861	Н	ins data	_30	30(100%	0(0%).
2100	phenelegy	1	_2_	60861	Н	И	_17	12(71%)	5(21%)
2100	phenelegy	11	3	60861	<u>H</u>	"	.21	19(90%)	2(10%)
2 <u>207-8</u>	syntax	n	3	60861	H	11	6	6(100%)	0(0%)
30.J.									
1100	numeration	Amer Guid Serv		60961	H	ing data	15	5(100%	0(0%)
1107	addition	11		60961	H	14	51	46(90%)	0(0%)
1108	subtraction	Ħ		60961	Н	N	16	2(75%)	4(25%)
1109	nultiplication	H		60961	Н	16	1	1(100%)	0(0%)
· .									
:			·				· 		

^{1/} Indicate the component code used in previous sections of this report used to describe treatment and population.

2/ Provide data for the following groups separately: Neglected (code as N), Delinquent (code as D). Silingual code as B) and Handicapped (code as H). Place the indicated code letter in the last column to signify the subgroup evaluated.



30. Kritish to started Test To the table being power the interest in secretary in secretarial design of the content of the elicebility of the interest in the instructions, objective usies provided to poole the instructions, objective usies provided to poole the instructional objective usies provided to poole the instructional objective usies provided by the treatment and provide separate data and that there are no provided the poole in the editional should be approved in the instructional and the completed both there. SEVERELY EMOTIONALLY DISTURBED

						Pretest		Pusttent	
				Component		No. of	items	N:	items
Code	Instructional Objective	Publisher	Leve!	Code	Subgroup 2	Fassing	Failing	(:cr (:i. :	Tron Coi I
	Objective	;	وروسية				(2)	P .881.18	Tailing
	aud.input-met.r	Random House	1	60861	H	ins data	45	41 (91%)	4(9%)
2100_	phonology	11	2	60861	Н	11	28	17(61%)	9(39%)
2100	phenelogy	Ħ	3	60861	Н	11	40	37 (94%)	3(7%)
2207-8	syntax	11	3	60861	Н	11	6	6(100%)	0(0%)
	TOTALS						119	101=85%	18=15%
30.L,			:			1			
1100	numeration	Amer.Guid.Ser		60961	Н	ins,data	46	33(72%)	13(28%)
1107	addition	n		60961	Н	11	64	53(83%)	11(17%)
1108	subtraction	11		60961	Н	11	16	12(75%)	4(25%)
1109	multiplication	lı .		60961	н	91	_1	1(100%)	0(0%)
1109	TOTALS			60961	H		127	99=78%	28=22%
	TOTADO								tietue i i i i Linux
			No.						

^{1/} Indicate the component code used in previous sections of this report used to describe treatment and population.

2/ Provide data for the following groups separately: Neglected (code as N), Delinquent (code as D), Bilingual code as B) and Handicapped (code as H). Place the indicated code letter in the last column to signify the subgroup evaluated.



30. MCriterian Referenced Test Results: In the table below, enter the requested information about criterian see ferenced test results used to evaluate the adjective codes provided on pp.2-4 of the instruction requal, in testing or mathematics. Use the instructional objective codes which were addressed by the treatment and provide separate data for only those instructional objective codes which were addressed by the treatment and provide separate data for each test used and each level tested. See additional shorts if necessary. Record in columns 2, 3 and 4 only those participants who completed both tests.

PREPLACEMENT

						Pretest		Posttest	
		and the second of the second o	To a Table			No. of	Pupils	No. of No. of	
Code	Instructional Objective	Publisher	Level	Component Code 1/	Subgroup 2/		Failing	Pupils Fupils from from Col. 2 Col. 2	
						(1)	(2)	Passing Failing	
	meter skills	Randon House	1	60861	H	ins.deta	14	14(100%) 0(0%)	
	vis.input-met.r	#	11_	11	Н	M	34	34(100%) 0(0%)	
	aud.input-met.r		1	н	Н	4	44	42(95%) 2(5%)	
2100	phenelegy	Random House	2	60861	Н		81	76(94%) 5(6%)	
	struct analysis		2	n	H	Ħ	4	4(100%) 0(0%)	
2200	veeabulary	II	2		Н	10	34	33(974) 1(35)	
		***	2		H		2	2(100%) 0(0%)	
2400	syntax cemprehensien		2	11 11 11 11 11 11 11 11 11 11 11 11 11	Ж		14	13(934) 1(75)	
2100	phenelegy	Random Hause	3	60861	H	Ħ	50	57 (97%) 2(3%)	
2200	struct analysis		3	Ħ	н	11	2	2(100%) 0(0%)	
	vecabulary		3	h	Н	geria. P H eren	33_	33(1004) 0(0%)	
<u>2300 </u>	syntax	*	3	, n	H	H. de a	1	1(100%) 0(0%)	
	phenelegy	Randem Heuse	4	# N	H	H	5	5(100%) 0(0%)	
		H TANK	4	н	н	н	4	4(100%) 0(0%)	
2300 2400	demprehensien	H H	1 4	N	H	M :	1	1(100%) 0(0%) estment and populati	

^{1/} Indicate the component code used in previous sections of this report used to describe treatment and population.

2/ Provide data for the following groups separately: Neglected (code as N), Delinquent (code as D), Bilingual code as B) and Handicapped (code as H). Place the indicated code letter in the last column to signify the subgroup evaluated.

ERIC Full Text Provided by ERIC

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30. Naiterion Referenced Test Results: In the table below, enter the requested information about spiterion to ferenced test results used to evaluate the effectiveness of short treatments for them 50 loses) in Testing or mathematics. Use the instructional objective codes provided on pp.2-4 of the instruction manual. Provide only those instructional objective codes which were addressed by the treatment and provide separate data for each test used and each level tested. Use additional sheets if necessary. Record in columns 2, 3 and 4 only those participants who completed both tests.

PREPLACEMENT

Code	Instructional Objective	Publi s her		Component Code 1/	Subgroup	Pretest		Posttest	
						No. ci l	Pupils	No. of	No. of
			Level			Passing	Failing (2)	Pupils from Col. 2 Passing	rupils from Col. 2 Failing
1100	numeration	Amer.Guid.Ser		60961	Н	ins, dats		122(99)	
1103	fractions	н		U	Н	M	21	20 (95%	1(5%)
1200	geem, symbels	Ħ	<u> </u>	N	н	H	17	17(100	6) 0(0%
1107	addition	H .		n	Н		77	76(99%	0(0%)
1108_	subtraction	N	·	**	Н	н	37	37 (1009	6)0(0%)
1109	multiplication	11		n	Н	n	5	5(100%	0(0%)
1110	division	Ħ		n	Н	No.	4	4(100%	0(0%)
1800	numerical rease	n "		Ŋ	Н	90	3	3(100%	0(0%)
1900	werd preblems	W		11-	Н	н	2	2(100%	0(0%)
1305	meney	H		н	Н	n	17	7(100%	0(0%)
1300	measurement	n		N	Н	H	32	31(975)	0(0%)
1306	time	n		W	н	н	27	27(84%)	5(16%)
			·						
									1 1 1

I/ Indicate the component code used in previous sections of this report used to describe treatment and population.

Provide data for the following groups separately: Neglected (code as N), Delinquent (code as D), Rilingual code as B) and Handicapped (code as H). Place the indicated code letter in the last column to signify the subgroup evaluated.



30. Oxidetical Referenced Test Passibate In the table below, about the accepted information about triangular ferenced test results used to evaluate the electiveness of short impatricular or har 30 fours) in the enterthics. Use the instructional objective edies provided in pp. 2-6 of few loss and in Table on Table on the other instructional objective ordes which were addressed by the treatment and provide separate cuts in cash test used and each level bested. The additional sheets if meansary. Technol in columns 2. 2 and a only those participants who completed both tests.

PREPLACEMENT

						Pretest		Posttest	
						No. ct 1	tens	No. of	%c. (!
Code	Instructional Objective	Publisher	Level	Component Code 1/	Subgroup 2/		Failing	from from Coi. 1	items
				<u> </u>		(1)	(2)	Passing	Failing
	meter skills	Random House	1	60861	Н	ins, dat	20	20(100	8) 0(0%
	vis.input-met.	ţ•	1_	31	Н	n	60	53 (88%)	7(12%
	aud input-mot	11	1_	н	И	31	95	87 (92%)	8(8%)
2100	phenolagy	Random House	2	н	н	н	89	83 (93%)	6(6%)
2200	struct.analysis	į į	2	н	Н	н	8	8(100%)	0(0%)
2300	vecabulary	11	2	н	Н	Ħ	50	56(95%)	3 (5%)
2207-8	syntax	11	2_	Ħ	н	н	2	2(100%)	0(0%)
2400	cemprehensien	Ħ	2	ŧī	Н	p	18	15(83%)	3(17%
2100	phenology	Random: House	3	Ħ	Н	Ħ	71_	69(97%)	2(3%)
2200	struct, analysis	H	3	11	Н	tı	2	2(100%)	0(0%)
2300	vecabulary	n	3	н	Н	H	77	75(97%)	2(3%)
2207-8	syntax	lt .	3	11	Н	н	1	1(100%)	0(0%)
2100	phenelegy	Random House	<u> </u>	H	H	H	8	7 (87%)	1(13%)
2300 2400	vecabulary cemprehensien	Taminh Taman	<u>4</u> 4	11	H H	11	7	7(100%) 1(100%)	0(0%)

I/ Indicate the component code used in previous sections of this report used to describe treatment and population.

Provide data for the following groups separately: Neglected (code as N), Delinquent (code as D), Bilingual code as B) and Handicapped (code as H). Place the indicated code letter in the last column to signify the subgroup evaluated.

TOTALS

60861

H 518 486=94% 32=6%

שלים בריים hereneed term impulty used to evaluate the all services of city insportence or magnementes. The end instructional officerior clear of the firm but the time of the medical only those instructions of decisive order which here addressed by the incurrent and position separate data and Last tree and each teve treeses. The entire wat and is the none series to PREPLACEMENT

those participants who completed both topes.

					1	Prete	st	Posttest	
						N/4.	tems	Litems	items
Code	Instructional	Publisher	Level	Compenent Code 1/	Subgroup 2/	Palsing.	Failing	Col. I	non not. 2
	Objective		المالية	4		(1)	(2)	2885.78	22.1125
100	numeration	Amer, Guid, Serv		60961	Н	ins.data	178	173(93%)	5(7%)
103	fractions	и		71	<u> </u>	11	25	24 (96%	1(4%)
200_	geem, symbols	t N	· '	1	H	**	18		6) 0(0%)
107	addition	н		11	H	H	120	1	3) 13(11)
108	subtraction_	11		н	Н	11	60	54 (90%	6(10%)
109	multiplicatien	İt		н	Н	11	66		0(0%)
110	divisien	l)		11	<u>H</u>	н	7	7(100%	
800	numerical reas	(1		п	H	the second second	9		1(11%)
900	word problems	;;		п	Н	H	2		10(0%)
305	money	11		n	Н	11	32		5(16%)
300	measurement	11		11	Н	£1:	36_	34 (94%	1.0
306	time	11		н	Н	19	58		15(26%)
. :	TOTALS			-			551	503=919	48=9%
							<u></u>	1	<u> </u>

^{1/} Indicate the component code used in previous sections of this report used to describe treatment and population. 2/ Provide data for the following groups separately: Neglected (code as N), Delinquent (code as D), Bilingual code as B) and Handicapped (code as H). Place the indicated code letter in the last column to signify the subgroup evaluated.

