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## ABSTRACT

The Bilingual Program in the James Monroe High School in the South Bronx in New York, was designed to offer bilingual instructional and supportive services to ninth through twelfth grade high school students under ffunding from Title VII of the Elementary and Secondary Education Act. Thé program yas designed to provide a model for replication by other high schools with similar problems. It was distinctive in two ways: (1) it was to maximize use of existing tax levy and teaching personnel, and (2) Title VII funding was to be used only to provide supportive services for the program and for unique instructional resources. The program was organized in bilingual mini-school in which non-English speaking pupils vere offered acaderic, non-academic and skill subjects in their native language, (Spanish). In addition, these students were given extensive instruct.ion in English. To reinforce the instruction, the bilingaal students simultaneously took other required courses with English speaking pupils. The program also offered a bilingual career orientatior course and business skill subjects. The target population consisted of approximately 250 spanish-speaking males and females. Results indicated that while the students showed gains in reading in English, mathematics and in sciences, these gains were modest and were not statistically significant in line with criteria established for the evaluation. Some of the reasons for the performance on the tests used may be attributed to the tests themselves. (Author/aM)


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# JAMES MOUPOE HIGH SCHOOL BILINGUAL PROGRM 

SCHOOL YEAR 1975-76

## DR. STANLEY SORES

An evaluation of the New York City school district educational project funded under Title VII of the Elementary and Secondary Education Act of 1965
(PL 89-10) performed for the Board of Education of the City of New York for the 1975-76 school year.

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Chapter 1. PROGRAM DESCRIPTION

New York City School 1975-76
The evaluation of the bilingual program for the Monroe High School in the Bronx took place within the context of the major fiscal and budgetary crisis of New York City. The dimensions of this crisis were broader than the schools in New York City and State.

The Bilingual Program was designed to offer bilingual instructional and supportive services to ninth through twelfth grade high school students under funding from Title VII in the period from September, 1975 through Jume, 1976. The geographical area of the activity is the South Bronx and the specific site is located in James Monroe High School.

The target population consists of approximate ly 250 Spanish-speaking boys and girls, who were provided instruction in a bilingual curriculum consisting of native language and English as a secon'd language instruction.

As of September, 1974, fifty-eight percent of the students at James Monroe High School had Hispanic sumames. Of these students, over 300 were identified as needing bilingual assistance to overcome the impediments incurred as a result of their language handicap This was identified by a New York City Board of Education survey as the highest concentration of students needing bilingual assistarice in the Bronx.

The target populaticn has a dropout rate in excess of fifty percent. Neariy all of these non-English spealing students are of low socione conomic status. Many of these students and their families are ineiigible for andor unaware of the varicus social and medical services available to their families. As a result, the group is charactérized by high absenteeism.

The program was designed to provide a model for replication by other high schools with similar problems. It was intented to be distinctive in two ways:

1. It was to manize use of existing tax levy and teaching personnel. $\therefore$ 2. Titfe VII funding was to be used only to provide supportive services for the program and for unique instructional resources. The teaching components for Social Studies, Math and Science were to be supported from tax levy funds.

The program was organized'in a bilingual mini-school in which non-English speaking pupils were offered academic, non-academic and skill subjects in their native language (Spanish). In addition these students were given extensive instruction in English (ESL component). To reinforce the instruction, the bilingual students , simultaneously took other required courses with English speaking pupiis. Additionally, the program, offered a bilingual career orient-
 rill qualify for entry level positicas and furtiner career trainine. The program also offers bilingual pupils extra-curricular activities such as films, museum visits, plays, speakers, and stident arama as a mears c: reinforcing their cultural heritage, while simultaneously introducing the new culture.

The E ilingual program provided class room personnel as. follows: three content area specialists and two fanily assistants. In support of these personnel were one counselor and one assistant coordinator all working under the supervision of a project director, with the assistance or a bi? gual secretary.

Additional personnel, other than Title VII funded, consisted of one ESL teacher (Title I), three teachers and one counselor funded by tax levy.

In 1975-76 the opening of the school year was plagued with a series of new reversals. A series of cutbacks in teaching staff and materials had impact upon the program. Contract negotiation led to a teacher strike which delayed the opening of schools for five days. As a result of these considerations and other events throughout the school year, there were many repercussions of the fiscal and budgetary crisis. There were a number of changes of staff and program during the school year 1975-76. The tax levy elements of the program were hard hit by the fiscal and budget crunch. Some of the program consequences from the austerity program led to fewer licensed bilingual teachers and a delay in teaching and evaluation and reorganization of the bilingual program in line with remairing resources. It was in this socio-economic context that the program was carried out.

The revised program objectives for the Monroe High School Bilingual Program were as follows:

Program Objective \#1: To increase the basic language skills in the expressive and receptive areas at least one level on the Puerto Rican scale of language fluency.*

Orogran Objective \#2: To improve the Sponish-dominant pupils reading ability level in English to a statistically significant degree.

Program Objective \#3: To improve the reading ability of "Hispanic pupils in the Spanish language to a statistically significant degree.

Program Objective \#4: To increase the avareness and know".
ledge of Hispanic pupils in their cultural heritage and pride in their ethnic background.

Program Objective 45: To develop a positive self-concept and attitude toward learning in language-handicapped pupils.

Prograin Objective \#6: To improve the percentage of at tendance of participatj .ọ pupils:

Program Objective \#7: To increase the number of bilingual pupils who pàss regulàr school subjects in: (a) mathematics, (b) social studie's, and (c) science.

Progran Objective \#8: To assess the processes used in the project, and to observe the discrepancy between plans and the actual operation.

Chapter II:
evaiuation ubjectives and procedures

## Evaluation Objectives

The evaluation objectives are parallel to the respective program objectives for the Bilingual Program of James Monroe High School. They may be listed precisely as follows:

Objective 1. To determine if the're was a statistical significant. improvement of Spanish speaking students in their ability to speak Engiish. It was expected that 75 percent of the Bilingual program students will gain at least one scale rating, in both the expressive and receptive modes when post test IEsul.ts of the New York City Language Fluency Scale are submitted to analysis. .The. treatment group consists of all Title VII pupils receiving instruction in English as a Second Language (ESL) in the Bilingual Program.

Objective 2. To determine if the Spanish speaking students demonstratèd a statistical significant improvement in reading achieve- ment in English. It was expected that the mean posttest reading score achieved by the treatment group will surpass their pretest score at the .05 level of statistical significance when results of the Stanford Achievement Test in Reading are submitted to analysis with a tr-test for correlated groups. The treatment group consists of ail Title VII pupils.

Ob:ective 3. To determine if there was sむatistically significant improvement in Spanish speaking students reading in Spanish. It was expected that the mean posttest reading scores achieved by the treatment group wi 11 surpass their pretest score at the .05 level of statistical significance when results of the Cooperative Inter-American Series Reading Comprehension Test are submitted to analysis with a $t$ test for correlated groups. The treatment consists of all Title VII pupils receiving subject matter instruction in their native language (Spanish).

Objective 4.: To determine if the participants in the program demonstrate significant gain in their knowledge of ethnic heritage.

Objective 8. To determine how the program operations compared with program description. To assess the processess used in the project, and to report on the gaps between plans and operation. Amergi topics to be included are: bilingual philosophy and methodology, affective education, use of performance objectives, the extent of staff in service training and curriculum development.

The evaluator o, erved program operation activity, conducted interviews, and examined pertinent records to determine the extent of congruence between program proposal specifications and the actual implementation of the program; these data are included summarily in the final evaluation report.

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Table \# 1.
Overall Summary of Objectivas, Testing Instruments, Test Dates, Target Groups Number For Bilingual Program for Monroe High School

| Objective Improvement of | Testing <br> Instrument | $\begin{aligned} & \text { Pre- } \\ & \text { Test } \end{aligned}$ | Post Test | Targ $3 t$ Groups Tested | $\begin{aligned} & \text { Number } \\ & \text { Pre- } \\ & \text { Tested } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 Oral English | New York City Puerto Rican Language Fluency Scales A \& B | Oct | June | All Title VII Students | 262 |
| $\begin{aligned} & \text { Reading in } \\ & \text { English } \end{aligned}$ | Stanford Achievement Test Primary I or II | Oct | June | All Title VII Students | 250 |
| $\begin{aligned} & \text { Reading in } \\ & \text { Spanish } \end{aligned}$ | Cooperative Inter- <br> American Tests <br> LCES-4/or 2NLA | Oct | June | All Title VII Students | 250 |
| 4 $\begin{array}{l}\text { Knowledge of } \\ \text { Ethnic Culture }\end{array}$ | Project-Developed Examination | Dec | June | All Title VII Students | 233 |
| 5 A Self-Image | Project translated $\alpha$ into Spanish of Coppersmith Scale | $\begin{aligned} & \text { Nov } \\ & \text { مr. } \end{aligned}$ | June | All Title VII. Students | 222 |
| ```SB Attitude toward Schooi and Education``` | Project translated , into Spanish of . Rivera ttitude Scales | Nov | June | All Title VII | 222 |
| 6. Attendance $\because$ | Bilingual vs. Regular <br> Program Students <br> Attendance Records |  | June | All Title VII Students |  |
| ```7 School Sưbjects Mathematics Social Studies Science``` | Teacher-made'final exams: <br> A) General Math \& Algebra <br> B) Social Studies <br> C) General Science \& Biology |  | Tine <br> June <br> June |  |  |

Methods of Analysis
The design stipulated the use of a series of statistical procedures for the analysis. These included: (1) the cor: t test between pre- and posttests with a level of significance o .05 ; for (2) the $t$ test of differences between percentage or proportior.s comparing the Bilingual Program results with schoolwide noms;
(3) the Wilcoxon Sign test of significance of differences between pre- and posttest ratings on the language rating scale; (4) compare the percentage distribution of the attendance rates in terms of percent of attendance rate for the Bilingual Program and the school as a whole. A summary of the types of statistical tests for each respective objective are depicted in Table \#2.

In addition, informal methods of assessment were used by the evaluator individual interviews, observations, and analysis of records and documents of tine Bilingual Program.

Table \# 2
Objectives, Tests, and Statistical Analyses for:
」chool Bilingual Program

| Objective Improvement of | Testing Inst ruments Used | Analysis Used |
| :---: | :---: | :---: |
| 1 Oral English | New York City <br> Puerto Rican Language <br> Fluency Scales A \& B | wilcoxon Sign Ranks |
| $\begin{array}{ll} 2 & \text { Reading in } \\ \text { English } \end{array}$ | Stanford Achievement Test Primary I or II | Correlated T Test |
| $\begin{array}{ll} 3 \quad & \text { Reading in } \\ \text { Spanish } \end{array}$ | Cooperative InterAmerican Tests LCES-4/oi 2NLA | Correlated TTest |
| $\begin{array}{ll}4 & \text { Knowledge of } \\ & \text { Ethnic Culture }\end{array}$ | Project-De'veloped Examination | Percent Passing Final and Correlated T Test |
| 5A Self-Image | Project translated into Spanish COPPERSMITH Scale | Correlated T Test |
| 5B Attitudc toward sichool and Education | Two Scales <br> Project translated <br> into Spanish of <br> Rivera attitude Scales | Correlated <br> T Test |
| $6 \square^{\prime}$ Atterdance | Bilingual vs. Regular <br> Program Students <br> Attendance Records | T Test for Difference in Percent |
| 7 School sübjects <br> Mathematics <br> Social Studies Science | Teacher-made final exams: <br> A) General Math \& Algebra <br> B) Social Studies <br> C) General Science \& Biology | Distribution $q$ Analysis of Percent Pass Final Exam in line Standard Criterion <br> $11 \quad 11$ |

There were eight evaluation objectịes in this study of the Bilingual Program at Monroe High School in Bronx, New York for the school year 1975-76. The results are reported in this section for each respective evaluation objective as stated in the evaluation design.

Objective 1
It was expected that at least seventy-five percent of the entire treatment group would improve at least one scale rating in both the expressive and receptive modes when post test results of the New York City Language Fluency Scale* were submitted t.o analysis. The treatment group were of all Title VII pupils receiving instruction in Engliz. as a Second L"nmáe (ESL).
$\mathrm{T}=3$.
...w.ion Sign Test of Signific...e for Students: Monroe High Schoo. for Ability to Speak Englis.: ew York Language Fluency Scales A \&

| Scale | N | Students' Results on Pre-Post Ratings |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Gain of One <br> - or More Levels | Loss of One or More Levels | Remained on the Same Leve 1 |
| A | 262 | 225 | 3 | 36 |
| B | 262 | 215 | 2 | 45 |

For Scale A for som students who wete rated in pretes: Sc.1. A, only three dec.in ' , e postiest while 223 gained one or levels. Sum of posivive $\quad$ s $25,367.5$ and sum of ne gative ranks
*also known as Puerto Rican Scale of Language Fluency.
was equal to 282.5 and the obtained Wilcoxion Sign $R$ was -12.73 which was significant at the . 05 level. Of the twenty students who pre-cested at lowest score of " $F$ " on Scale A, eighteen or 81 percent gained two or more scale levels by the end of the semester.

For Scale B the results for the 262 responses to pre- and post-testing ratings for, Scale $B$, the $R$ for , $x$ xon Sign Test was -12.576 which was significant at the .05 level. The sum of positive ranks equal to 2345 , while the negative ranks were 168 . Of the 262 students 215 or 82 percent gained one or more levels while only two students declined one or more leve: Of the 45 students who were rated on the lowest level of Scal: ; $\quad t$ : pre-test. 22 or 48.8 percent gained two or more levels .. $\because=\cdots$ st-test. The re;ults are depicted in the previous Table. I. $\because \quad \therefore$ that the objeative was attained, since in ratings for both : : she obtained $R$ was found to be less than : רe Tabled $R$ which $\equiv$ hat in ability to speak English the diffe:ence between the ... post-test showed significant gain.

## Objective 2

It was expected that the mean post test reading score achieved by the treatment group would s.rpass their pretest score at the . 05 level of statistical significanct when results of the Stanford. Achievement Test in Reading (Level II and III Form A and B) were submitted to analysis with a test for correlated groups. The treatment group consisted of all Title VII pupils.

The mean pretest grade equivalent score on the Stanford Reading Achievement Test for the Bilingual students was 2.58 and the mean post test grade equivalent score was 3.02 with a difference of 0.44 between means The standard deviations was .649 the sum of differences was 91.83 and the square of the sum of differences was 8432.7. The correlated test was 13.52 for 205 degrees of freedom and was significant at the .05 level. Table 4.

Test of Significance for High School Bilingual Program's Spanish Dominant/Students in Stanford Achievement Test in English

| $N$ | Pretest Mean Posttest Mean | $X_{D}$ | $S_{D}$ | $t$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $206^{*}$ | 2.5789 | 3.0247 | 91.83 | 8432.7 | -13.52239 |

* Of the 250 students pre tested, 206 also completed valid post test are are reported in this analysis.


## Objective 3

It was expected that the mean posttest reading score achieved by the treatment group would surpass their pretest score at the . 05 level of statistical significance when results of the Cooperative InterAmerican Series Reading Comprehension Test were submitted to analysis with a $t$ test for correlated groups. The treatment group consisted of all Title VII pupils receiving subject matter instmaction in their native language (Spanish).

For the 212 students who completei the pre-- and posttests on the Inter-Amezican Preuba de Lectura (DES and CES), the mean was 28.259 for the pretest, and the positest =ean was 39.46 . The sum of differences was 2376 and the sum of the square of differences 46786 with the standard deviation of -4.855 . The correlated $T$ test of 16.696 with 211 df was significant at the .05 level with the tw-tail test:

Table 5.
Test of Significance for Monroe High School Bilingual Program's Spanish Dominant Students Reading in Spanish

|  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| N | Pretest Mean | Posttest Mean | $X_{D}$ | $S_{D}$ | 土 |
| $212^{*}$ | 28.259 | 39.467 | 2376 | 46786 | 16.696 |

[^0]
## Objective 4

To increase the arareness and lnowledge of Hispanic pupils in their cultural heritage and pride in their ethnic background.

It was expected that the mean posttest ethnic heritage and culture score achicved by the treatment group jould surpass their .05 10-1 $=^{-}$st.tistical significance when results of a project developed instrument vere submitted to inalysis with a test for correlated groups. The zre-trint group consistod of all Title VII pupils receiving tilingual instzuction.

Of the 233 wino too: the pre-test, -23 stuanents completec valid post tests and are iraluded in the enairsis of results on the project developed test of Misparic culture." The mean. pretest was 71.2 and the meen postest score was 79.2 with a difference of 8.04. The sum of the square of the differen=3s 43,125 and the standard deviation was 14.399 . The $T$ ecst was 9.689 whi was sionificant at the .05 leved for 207 degrees of freedom. Of the 203 students, 181 or eighty-seven percent attained postest final exan scores that were at or above the standard for passing.

Table 6 $\qquad$
$\qquad$
Test of Simificance for Knowledge of Hispanjc Culture/Spanish Dominar: Students Monroe High School Bilingual Program

| $N$ | Pretest Wan | Postrest Nan | $X_{D}$ | $S_{D}$ | $t$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $208^{*}$ | 71.2 |  | 1676 | 43125 | 9.689 |

\# Of the 2,3 who : the pre-tct, scone -ns complezed valid ust tests c.i ti.e fispanic $C$. Jure.

## Objective 5

It was expected that the mean posttest self-esteem and school at titudes score achieved by the Biingual students wo." $\dot{C}$ surpass the: " 3test score at the .05 level of statistical sigia...c. nee whe results. of a pract translated instruments were submitted to analysis ith at test for carrelated groups. The treatment group consists of ait

Title VI: Jupizs receiving bilingual instructic...
The Coopersnith test for self esteem was used. Of the 222 students a the Bilingual both the $:-$ and posttest. The mean for the pre-tests was 34.25 and the postest mean score was 34.9. The sum of differences was 128 and the sum $r$ : square of differences was 8430 with a standard deviation of 6.54. T : t-test scoze of 1.397 which was not sjgnificant at the .05 , level wi:h 196 degrees of freedom.

Table 7
Test -f Significance for Self Esteem Test in Sparish Dominant Studer:s on Coopersmith Scale at Monroe High School Bilingual Progrea

| $N$ | Pretest Mean | Posttest Mean | $X_{D}$ | $S_{D}$ | $t$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $197^{*}$ | 34.25 | 34.90 | 128 | 8430 | 1.397 |

[^1]Attitude Toward School-Scale I
The Rivera School Attitude Scalt wa d. Jne scale measures attitudes toward school and the other toward education. The results showed that the bilingual students generally have very positive attitudes toward schrol and education as measured on these scales. Of the 196 students*who-completed the tests, the mean pretest score was 87.76 and the mean posttest score was 94.86 with a difference of 7.097. The sum of squares of differences was 75,725 ard the standard deviation was 19.655 , with a t-Test of $5.406^{\circ}$ which was significant, at .05 level for 195 df . To give an idea of the highly positive attitudes expressed by the students there were 129 of the 196 students, or 65.8 percent , who scored 90 ör above on the pretest rating; and 81 or 41 percent who scored 100.

Attitude Toward Education-Scale II
The results of the 194 students**ho completed the Rivera School Abtitude Scale II on Education revealed a mean pretest score of 81.96 and a mean posttest score of 90.489 with difference between means of 8.5200. The sum of differences was 1653 and the sum of the square of differences was 57917 with a standard deviation of 22.37 , and a T-test score of 5.7217 which was significant at the . O5`level for 195 c . .

The attitudes of Bilingual Program students toward education were not as high as school attitudes on Scale $I$, but they were still high. Of 194 who completed Scale II, 97 c: fifty percent started the pretest with a score of 90 or higher, while 47 or 24 percent rated their attitudes toward education at the 100 percent level of the scall.

[^2]Table 8
Correlated T Eest of Significance for School Attitude in Spanish Dominant Students Monroe High School Bilingual Arogram

| N | Scale | Pretest Mean | Posttest Mean | $X_{D}$ | $S_{D}$ | $t$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | I | 87.76 |  | 94.86 | 1,391 | 75,725 | 5.406 |
| 194 | II | 81.96 | 90.489 | 1,653 | 97,117 | 5.721 |  |

## Objective 6

It was expected that the rate of attendance achieved by the treatment group would surpass the comparison group at the .05 level of statistical signif:こance when pupil attendance results were submitted to analysis with a $E$ test for percentage difference for uncorrelated groups. The treatrent group consisted of all Title VII participants in the program. The comparison group consisted of all pupils in the school. The aim was to find out if students in the Bilingual Program had a higher daily attendance rate than the rate established for the entire student body at Monfoe High School. The special nature of the Bilingual Program was expecte $=$ to provide added incentives to students for attending school. If was expected that the progran holding power would be reflected in ters of better daily attendance in the Bilingual Program than in the regular program.

The assessment of the at tendance was based upon school records for attendance pertaining to students in the Bilingual Program as well as those within the regular program. The procedures used included the attendance for the students in the Bilingual Program during the first five grading periods and the attendance for the student body as a whole during the first five grading periods (September 1974-May 1975):

A review of at tendance records revealed that the attendance criteria was exceeded by the students in the Bilingual Program. The results are depicted in Table \#9 and clearly show the objective was achieved. A detailed analysis of results showed the outstanding attendance record for the various subgroups in the Bilingual Program.

Using the 165 days of school at tendance for the nine-month period as a basis, a summary of number, of days present and days absent for each student in the Bilingual Program was collected and the data were analyzed. .

It was reported that the mean percent or those present for the school year 1975-76 for Monroe High School students in the regular program was 65 percent. The mean percent present for the school year 1975-76 for the Bilingual. Program students was 83 percent which was higher than the school mean. The difference in mean attendance was between the bilingual and regular program students was 18 percent. A test for the significance of the differences between percent of uncorrelated program groups was made. The 2 score was 5.16 Which was significant beyond the .05 level with a two tail test.

Table 9
Nonroe High School Attendance of Students from Bilingual Program and Students for Regular Program

| N | Bilingua? Program. Percent Present | N |  | $\begin{aligned} & \operatorname{ar} \mathrm{p} \\ & \text { nt } \mathrm{p} \end{aligned}$ | Program Present | Differ | Score |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 240 | 83 | 3200 | $\cdots$ | 65 | , | 18 | 5.16 |

Table 10
Distribution of Students and Schoul Attendance Monroe High School

|  |  | Number of <br> Bilingual <br> Program <br> Students |
| :--- | :--- | :--- |
| Percent |  |  |

## Objective 7

It was expected that at least 60 percent of the Bilingual Program studențs will attain at least the criterion level of a score of 65 or higher set for passing in the teacher-made final examinations in (A) Mathematics; (B) Social Studies and (C) Sciences when the data were analyzed.

Objective 7 (A) Mathematics -- Algebra, Geometry, and General Mathematics
It was expected that at least 60 percent the the Bilingual Program students would attain at least the criterion level set for passing subject content in Mathematics when posttest results of teacher-made final examinations were submitted to analysis: The results for students who took Algebra showed that of the 100 students tested in January, 50 passed the final examinations with a score of 65 or higher, which was less than the críterion of 60 percent. In June 52 students took Algebra final examinations and 27 passed or 52 percent which is less than the criterion of 60 percent. For results see Table 11 to follow.
) $\quad \therefore$


$$
\text { TTabfe } 11
$$

Distribution of Final Examination Scores in Algebra-l for Students in the Bilingual Program at Monroe High School for January


Two students did, however, take and pass geometry with scores of 87 and 68. In terms of the results of students from the Bilingual Program in Algebra, it is clear that the criterion of 60 percent passing was not achieved:

Table 12
Distribution of Final Examination Scores in Algebra-2 for Students in the Bilingual Program at Monroe High School for June.


Objective 7 (B) General Mathematics
It was expected that at least 60 percent of the Bilingual Program students would attain at least the criterion level set for passing subject content in General Mathematics when posttest results of teacher-made final examinations were submitted to analysis. The results for the 75 students from the Bilingual Program who took the final examinations in January were analyzed and showed that 45 students or 60 percent passed with a score of 65 or higher, while 30 or 40 percent did not pass the final examination in General Mathematics. In June of the 40 students who completed the final examinations, 23 passed or 58 percent with a score of 65 or higher. The distribution of students final examination scores for January and June are depicted on Tables 13 and 14 to follow. Since 60 percent did pass the final examination in January. and 58 percent passed in June it may be said that the objective in part was attained in General Mathematics for the students in the Bilingual Program.

Table 13
Distribution of Final Examination Scores in January 1975 in General Mathematics for Monroe High School Bilingual Program


Table 14
Distribution of June 1976 Final Examination Scores in General Mathematics for Students in the Bilingual Program at Monroe High School

|  |  | Students |
| :--- | :--- | :--- |
| Final | in |  |
| Examination | $\ddots$ | Bilingral |
| Score | Program |  |

100-95 : 0
95 . . 0 . 3
9085 4
$85-8 \theta$ 3
80-75 7
75-70 3
70-6.5
3
Below 65 . 17
Total 40
Objective 7 (B) Social Śtudies
It was expected that at least sixty percent of the treatment group would attain at least the criterion level set for passing subject content when posttest results of teacher-inade final examinations in Social Studies were submitted to analysis.

The courses in Social Studies included American Studies, Eastern Civilization, Economics and for some students the Citywide $\therefore$. Examination in Social Stúdies given in January and June were analyzed. The results for the social studies courses examinations for January for 51 students indicate that 32 passed or 6 percent at or above the criterion level score of 65 . The results for $7.8^{\prime}$ students who took ' examinations in June revealed that 48 passed or 62 percent and of the 25 who took the Citywide examinations in Social Studies 18 students or 72 percent passed: This means that the obiective for Social Studies for the students $f r$ the Bilingual $\because$ is attained. For a distribution of test scores in Social $=\ldots$ s see Tables 15 and 16 to follıw.


Table 16
Distribution of Final Examination Scores in Social Studies for Monroe High School Bilingual-Program -. June 1976


## Objective 7 (C) Science

It was expectec that $\quad y$ percent 0 the tre:
group would attain at lea.t th vel set for gassing au ot content when posttest resalts of e final examinations in

Science were submitted to analysi
The results for each se l examinations for stude-.ts
from the Bilingual Program in Gene $\quad$, e courses are to follo:
In January from 39 students, $10 \mathrm{~s} \quad 25$ percent passed, whi.
in June of 38 students who took $G E$ ince courses 24 students or
63 percent passed the final examir . . General Science. The
distribution of results are depict fes 17 and 18 to follow.
Table
Distribution of Final Examinar_ Ecores in General Science for Monroe High School Bilingua $\because:$ gram - January
Final Examination Score
Between 95 and $100:$
90 and 95.
85 and $90:$
80 and 85.
75 and $80:$
70 and $75:$
65 and $70:$
Below 65

Table $-\varepsilon$
Distribution of Final Examinations Ecores in Jeneral Science for Monroe High School Bilingu: F: gram in June


The results for 56 students in Bic ogy ciass from the Bilingu Program in January that $26=46$ percent pas ed the final examinations. In Jume of the 76 students who took Biology fin'al examinations some 38 students, or 50 percent passed. The results for the school year were for 132 students in Biology who took final examinations, some 64 studer. or 48 percent passed Biology final examinations. This figure was below the criterion of 30 percent established for this objective, and therefore the objective was not attained for Biology in the Bilingual Program. The results are depicted in the Tables 19 and 20 to follow.

- Table 19

Distribution of Final Examination Scores in Biology for Students at the Bilingual Program at Monroe High School - January 1976


Table 20
Distribution of Final Examations Ecores in Biology for Monroe High Schoc: Bilingual Progiam in Jume 1976

Final Examination Score
Stuadents in Bilingual Program



 tie criterion level of six on or moze passi on ataminatio：s．Fifty perce：วf ir final examinations in $A_{-} \equiv b=a$ and General Mathematics or tise year， and in General Science and joiogy for the Sp＝ing Emester．Sares for General Science were lowest in january when only 25 percent of those tested passed．While performance of the students from tra Bilingual Program was not at the sixty percent level of the criterion，it did attain the 50 percent level．in all bu：the General Science and the Biology test results in January，fover，hen cne considers studnts semester test scores anot en patter emergei．

The Director of the Bilirgual Prorram questioned the use of the final examination score as the sole criこミrion of achie ment of objectives and suggested thet the zchool serester test scozs be used 4 to augment the data fron firal examinations for Objective 7.

In order to provite some compaーisin，$\dot{c}=$ a from the overall test scores for each subjec＝were compared $\div$ th $\mid \geqslant$ final $\equiv$ xaminaticn results．In this way the $\equiv \because=-\quad=$＇s overall perfomance for the school year was comparea with the Iina examination test score．Ealysis of the data showed that the overail school semester scores were higher than the final examination scores $\dot{Z}, 2$ all subjects except Algebra．In General

جa e 21


Nathematics, Sefezer scoeas $\quad .270$ and 35 percint. Algebra was 71 percent in June with only $4=\cdots$ cent passirg diring the shorter Fall Semester. The
 Biology the results $\equiv=\equiv 84$ and 90 pero-". which was considerably higier than the finc. Eaminc:ion ="sul* - reneral Science, again the school seme ne:...es were muci hignr $\cdots$ an the final examination scorss with 90 ath $1 \%=$ at passing as reported.
 Gensal Scie co were $\quad$ - 0 tie s.in is $f=$ the Bilingual
 attained by The stucenve n Gererai Science in - :e regular program. * With the exception $c=$ one semester of Algebra, -il of the results for school tatal tos: were abov pass an res tor
-ilload.

Ob－Etive 8．To cetemine how the $p=r a n$ operat ins compared with pr gram ：－escription．To assess the processiss used in the project， Ed to mport on the gaps between plans and ope．Among topics to be include ．are：bilingual pnilosomy and meth do $\because$ ffective escation use of yerformance objectios，tee extent onstarice $t$ aing anc curriculun．＝velopment．

The evaluator c－ 0 ved program opeェatiング activity，conducted interviews，ad examined $\equiv=$ tinent records to detemine the extent of congruence $b 心$ ween progran proposal specificatić，and the $\because=\cdots \equiv 1$ implementation of the procram；＝hese data are inuded summaily in this report．

Comparisons are reportei in teras of eunit major F＝－
 （3）Curziculum Development，（4）Stus［e，＝opment，（5）Testing ar． Evaluation，（6）Number of wants Testec（＇）Pirents and Commanity Involver．ant，（8）Student Developments

## Gontext of the Bilingual Pryam

The physical loca：＝ High Scnool operated from an annex．$:$ bil：ek from the main building，s will be noted the progran staff orkec toward integration within the larger school throughout：the yea：．At the end of the school year the Bilingual Program office $\bar{E}$ sh $\operatorname{sh}$ Eted back into the main buildin ${ }^{+}$）a

and many classrooms，and offices had the advantage of servig as a＇home
 further integrate the Bilingual Program witiin the mainstran of the main program of the school．

It should be noted that the $1975-6$ chool year he：
been a year of major fiscal crisis for New Yori City．The Jupact of the fiscal crisis was felt by all programs within Ner Yow．City


Programs includec personnel shifts and the $\mathrm{C}=$ ． of the school year．One result ras a shorter sehool $\because$ EE especiElly for Fall Semester 1975－76．Some of the cther ごミニts ご larger fiscal crisis have been noted elsewher $=$ thi zepoz．

## Philosophy of the Bilingual Program

On the basis of intervicws with the directer and key sta£f， and an examinatio．of materials $\sim=\sim 3 y$ ，one zay conclute the the Bilingual Progran at Monroe ：semol has arganic hananist：＝ philosophy of Bilingual education．ais outlook is central to the enti＝e range of curriculum and work of the teacters in the prograz

The outlook serves to guide tha program. It provides co-curricula experi-nces within the school and field trips that link the students' home and school experiences; link the school and larger city experiences, link student's own personal affoctive domain with larger cultural heritage and the events from the laxger commity. Leaming is viewed functionally. It brings together art and music in the leaming as well as the cognitive areas. Although there was no direct separate course on ethnic heritage and school at titude, these factors were pertinent in the program. "The scores on measures showed attitude changed over the course of the school year. (See Objectives 4 and 5). The co-curricula emphasis of the program provided a central focus for many of the coran ctivities for the students in the program. They included the Bilingal Program Newsletter (bi-monthly), vocational guidance through gust speakers and visits to and from agencies in the commurizy. C jectives from English and Spanish language, Science and Social Stuies =ourses were an integral part of field trips.

The organic functional view of the curricu?um in the Bilingual. Program led to drawing upon objectives from English Science and Social Studies in connection with the many' field trips, These trips included the following: New York"Experience", Museum of American Indians, Nuseum of the City of New York, Circle Liner Tour around Marise. . sland and then on to Bear Mountain. Other trips were to Radio City Kusic Hall; New York University, ASPIRA (College Fair) Montefior Hospital (Health Center) Greenwich Villase. The trips included visits to agencies, offices and job sites. The art and music provided included Hispanic Ballet, Salsa Festival, Jose Coronado-Ballet night and the City-Wide Bicentennial.

During the school year the staff developed bilingual curriculum in ל̀eneral Science, Biological Science; Indoor Gardening, Media and ESL, Spanish version of IBM keypunch course, Spanish version of Accounting Workbook, and translation of many materials into Spanish for use in the program. In addition the Newsletter was produced on a bi-monthly basis with three special Newsletter reports to parents for each marking period. Curriculum work included reorganizing and conversion of ESL courses into a tax levy pattern and the development of ESL levels 4,5 and 6 . This provides a sample of the range of curriculum development that took place.

## Staff Development

There were many events that contributed to staff development during the school year. It was expected that the link with universities would be increased for the facuity. Only one student teacher was plared within the program in Business and Office Skills from Lehamn College of CUNY during the Fall semester, but the link with the universities did not develop. Manhattanville College provides Bilingual IBM key punch courses and efforts were made to develop an avenue for graduates to attend. $T r$ staff took courses at Hunter College, New School for Social Research, and New York University.

An important effort was made during the school year to integrate the Bilingual Program staff with the mainstream or regular program faculty. This was salient at a trime when anti-Bilingual teacher feelings were being expressed in other programs. In October, at a faculty meeting, the Bilingual Program presented a skit and then engaged in a discussion on scme of the more controversial aspects of the Bilingual Program. This effort to openly

2
discuss the program improved the situation and was rated as a "suicess" by over 80 percent of the faculty in an evaluation sheet used as a follow up. The action by the Bilingual Program to communicate directly with the larger faculty may have been one of the critical events in integrating the faculty. Another consideration at Monroe High School was that Bilingual Program staff faculty were drawn from existing personnel within the school with the exception of Science (Bilingual) and the project secretary.

Special staff meetings for the Bilingual Program were held monthly and more as necessary. Topics included; "Title VII and the Program, college orientation planning, - planning Pan American Day, pianning. field trips, planning parents advisory meetings, planning various musical and cultural events, guidance services and vocational plans, testing and evaluation schedule curriculum development review, and program planning for 1976-77.

The staff at tended a number of professional meetings and conferepres during the year including the Rochester ESL and Bilingual Coordinators meeting, New York City Bilingual office meetings and the five ESL meetings held during the year. Faculty meetings on Title VII were held on a regular basis.

## Testing Program and Evaluation

The overall testing program used within the school is larges than the special testing required by the evaluation:- The re were about six and one half hours of pre and post testing required for the evaluation. That amount of testing required organization, scheduling and time of the
the part of not only teachers but the students themseives. There developed to some extent a saturation ith tests and anti-test bias developed among the students. So sa seemed to give up and tum off to the tes: so that the staff expressed concem that some of the tests did not re: ect the leaming nor the potencial of the students tested. This co: sern over the me taken for testing within the program has not lec to an abandonment of testing, but a search for alternatives. As noted elsewhere in this repor the Director of the Bilingual program stated her reservations :=out the standard or criterion of 60 percent rather than the 50 ent of the group as passing in course. Further, the Director raised que: =ion about the use of final examination in the evaluation rather than $f_{i} \equiv 1$ semester test scores as she had proposed. As a compromise, this evaluation has included both sets of data. Lastly, the evaluation iad included in addition to cognitive tests, tests in theaffective domain and ettitude tests, since these were vital to the philosophy of the program (See Objective 4 and 5). The testing program was carried out•with efficiency, care, and a tremendous amount of work, some balance betwe en the significant areas to be assesșed and the reasorable amount of time.

## Number of Students Tested

All students in the Bilingual Program were tested. The variation of the number of students tested for the various objectives in the evaluation may be explained in a number of ways. First the teachers were able to rate each child in English speaking ability on the basis of direct knowledge of the students (Objective 1) the refore, the full number of students in the Bilingual Program were tested. Some tests were found to be incomplete or invalid. but ricre than 75 . percent of the students in the progrem were tested in reading tests. in

Engliṣh (Objective 2) and Spanish (Objective 3). The school placed main emphasis upon English as a second ianguage. The number of students who took each of the various academic school subjects in Mathematics, Social Studies, and Sciences varied in line with their respective performance and scheduling. Students were scheduled for two ESL classes and with other required courses fewer students were scheduled.into the academis subject areas and therefore the number of students tested was based upon the smaller enrollment into these classes. It was reported to the evaluator that 30 students dropped from the program over the school year. The reasons for withdrawal from the program were as follows: marriage, pregnancy, moving, relocation due to fires. Some of the students shifted to $0^{\circ}$ the high school equivalency program for youth with full time jobs. The specific data loss for each objective is cited on pages 13-17. Parents and Community Involvement

The Bilingual Progarm proyided a number of ways for parent and community involvement in the school year: A parents advisory board met on a regular monthly basist with more meetings as needed; these meetings not only reviewed the substance of the Bilingual Program proposals, but aided directly and indirectly in planning and carrying out various school functions, community :vents, fiefd trips, parents nights (four open school meetings), plu.: sallet night and College Orientation night meetings. This year parents and-students aided in the development of a Student scholarship Fund. Parents aided in contacting agencies, arranging for speakers, and arranging field trips.

Student Development
The students in the Bilingual Program at. Mnnroe High School participated directly in the program and through various student activities. af the embnal ot loran Miring the voar thev wore active in student
organization, they conducted Cake Sales for une Student Weifare Funa, and Scholarship Fund, -and other events. S.tudents aided in planining various events of the school year including the Dominican Musical Shows, Pan American Day, Bicentennial Sing, College Orientation Day, and Graduation (about 25 student's from the Bilingual Program graduated). The school Soccer team members were predominately students from Bilingual Program.

IV.

SUMMARY OF MAJOR FINDINGS, CONCLUSIONS AND RECOMMENDATIONS

## Findings Summarized

There were eight objectives to the evaluation of the Bilingual Program at Monroe High School. The findings for each objective will be listed in summary fashion along with brief discussion to be followed by conclusions and recommendationsi-

Objective 1. To determine if the Spanish speaking students In the Bilingual Program showed, significant improvement in ability to speak and to understand English. Results showed chat a significant number of students showed gain of one or more levels in the rating used and therefore one may infer that the objective was achieved.

Objective 2. To assess changes in reading English for the Spanish speaking students in the Bilingual Program. The results showed that the students in the Bilingual Program did not show significant gains in their reading in English during the School year as measured by the Stanford Achievement Test in reading. The objective of gain, in reading in English was not achieved by the students this year.

Objective 3. To determine if the Spanish speaking students showed significant improvement in their reading in Spanish. Results showed that the students did show significant improvement in reading Spanish. The riniotive was achieved.

Objective 4. To increase the awareness and knowledge of Hispanic pupils in their cultural heritage and pride in their ethnic background. The results showed that the students did increase significantly in their knowledge of their cultural heritage during the school year. The objective was achieved.

Objective 5. To determine if students showed statistical significant improvement in their attitudes toward self and toward school. The results on the self esteem test shoved significant improvement between the beginning and end of school. In addition the two measures of attitude toward school and attitude toward education did show a significant gain between the begir ning and end of the school year. The objective was attailed. The scores were remarkably high or very, positive ratings given by the students in the Bilingual Program.

Objective 6. To find cut if the attendance rate of students in the Bilingual Program was higher than the students in the regular program" at the school. Results "shoved that the students in the Bilingual Progarm dianhave án sigicantly better record of attendance than the students in the regular school. The objective was obtained.

Objective 7. In the Bilingual Program, students were expected to attain achievement in regular school subjects (A) Mathematics, (B) Social Studies, and (C) Science at or above the standard established of sixty percent for passing these subjects.

The results for General Mathematics final examinations were below the established criterion. In January, 25 percent of the students passed, while in June 63 percent passed. The objective was not attained.

In Algebra, the results for January showed that 50 percent passed which was below the criterion and in June 52 percent of the students passed the Algebra final examination and-Citywide Examination. These results showed that the objective was not achieved.

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In Social Studies the results of the students from the Bilingual Program"in Social Studies were more encouraging. In January 63 percent of the students attained passing scores on the final examination while in June, 62 percent of the students passed the final examination. These results were above the criterion of sixty percent for passing and it is clear the objective was achieved for Social Studir in the Bilingual Program.

In Sciences the students from the Bilingual Program took a number of ${ }^{\text {different types of General Science courses. Of those tested, }}$ 25 percent passed cheir final examinations in January and 63 percent passed in June. One may say that the objective was not entirely achieved in General Science.

In Biology courses, there were 46 percent who passed in January and 50 percent who passed in June. The criterion of sixty percent was not at tained and so the objective was not achieved.

Objective 8. To determine how the program operations compared with the program description. The evaluator assessed the Billingual Program so as to determine gaps between the program as described and as actually carried out and studied the various processes used in program operation. The evidence indicated that the program operations did carry out the major program elements as described.

The program goals as described in the proposal include a number of basic components that go beyond the specified evaluation objectives. The evaluator observed program activity, conducted interviews, and examined pertinent records to determine the extent of congruence between program proposal specifications and actual implementation of the program.

## Conclusions

On the basis of the findings from this evaluation it is possible to describe a number of conclusions that emerge directly from the findings.

The Bilingual Program at Monroe High School developed its major objectives within the context of the larger social; economic, and fiscal crisis of New York City in 1975-76. The effects of the major crisis were felt in terms of delays in opening of the school year, shifts in staff patterns, and reassignment of varicus personnel, with resulting difficulties for the overall curriculum.
$\div$

- work and progress $c=$ the Bilingual F zogram and Monroe High School: The accomplishments may be viewed in $00-2$ relative and in absolute terms. In terms of the evaluation objectives, there was evidence that the students gained in langyage development in both Spanish and in English. There was evidence that the students gained in the self esteem, and in their attitudes toward school and education and in their knowledge of their ethnic Meritage. The students showed that the Bilingual Program had greater meaning to them by their better attendance.record than the students in the regular school.

Some of the "gains in terms of progresss in language and know-.' ledge about culture and social studies were offset by the relative gains in other aresas that were less than the program and evalua-
tion objectives specified. While the students showed gain in reading in English, in Mathematics, and in Sciences, these gains were modest and were not statistically significant in line with criteria cstablished for the evaluation. Some of the reasons for the per-

- formance on the tests used may be attributed to the tests themselves, but the program itself must accept the results as a challenge to the staff next year and strive to improve results. When the results 'of students' performance on final exa-inations were compared with studer zs'" school yee: tozal test scores, ťe Bilingual Program students were above th= crizerion acceptable for passing.

It is clear E om the evidence gath -ed during this evaluation that the Bilingual Fzogram of Monroe High School has a clear philosophy of Bilingual Education that pervades its operation and planning of experiences. The philosophy infuses the work not only in the classroom with students, but the field trips, the relationship with the larger regular school program and the faculty relationships. But philosophy alone, is no guarantee for pupil performance and the students in) the Bilingual Program have a long way to go $c^{\prime \prime}$ in arriving at grade level norms for a number of areas of study. $\leftrightarrow$

On the basis of the evaltation concucted, it was apparent that some of the staff and students developed a negative reaction to the extensive formal testing. There were some indications in this evaluation that some of the testing periods extended over long periods of time and were conducted in very large groups in order to
complete the battery of tests. In these situations the program and the students were penalized, since under such circumstances neither their actual knowledge nor their potential would be asséssed. The entire testing program was carried out with cooperation and efficient administration and preduced excelient results.

In relation to the Office of Educational Evaluation, the Director of th Bilingi-1 Program raised a cuestion about the change recommended by the Jffice of Educational Evizuation from progran o. jectives with speciai attention to "Passiug gri" " to evaluation objectives shift tc passing final examinati-ns (Objective"7) and tie recommendation $\therefore$ shift away from the effective domain objectives, i.e. (\#5) Self Esteem ari School Attitude. The Director resisted since they were central to the philosophy of the Bilingual Program. *rinere are valid reasons for the positions taken by the Office of Educational Evaluation as well as the Bilingual Prcgram.

* This evaluation has included both final examinations and total semester test scores.


## Recommendations

The recomendations made for the Bilingual Program of Monroe High School are based upon the $f==$ dings of the evaluation. during the school year 1975-76. These recomendations pertain to the evidence gatnered directly for each of the evaluation objectives and the broader goals of the program assessed during the school $y=a r$. These recommendations have special relevance to the current operations and have implications for next year!s bilingual program.

It is recommended that the philcsophy of bilingual Program at Monroe High School with its emphasis apon the organic and humanistic elements be continued. The program has given attention to the affective domain this year. It is not necessary to include as many tests in the evaluation as were used in 1975-76. The attitude measures"used in the evaluation for $1975-76$ were useful but mans they may be omitted next year. The scores of students showed that their attitudes were very positive, toward" school, bqut their gains were not significant. It is possible to keep the assumptions of the philosophy of the Bilingual Program without testing every assumption in the evaluation.

It is clear that where have been major gains by the Bilingual Program within Monroe High School during 1975-76 while operating within the annex building. Next year the program will operate from the fifth floor of the main building. It is recommended that the shift into the main building be used as an opportunity for further integration of the Bǐingual Program with the reguler or mainstream program of Monroe High Sçool. The implications of this recommendation include curriculum as weli as staff development and student involvement from both programs.

The Bilingual Program constitutes to some extent a parallel ystem; within Monroe High School.

It is recomended that the inservice staff training give some attention to the uses of test results for diagnostic and prescriptive teaching purposes. In addition, it is.recommended that the teachers would benefit from knowledge of normative based testing as well as criterion reference testing. More than knowing how to give different tests, it is important to know how to use test results informally for more effective instruction.

It is recommended that care should be taken to balance the continual assessment and the amount of actual class time taken for the testing. The conditions of testing students should be cons. with the type of test and not mass testing far beyond the endurance of the pupils. It is recommended that the student be given practice in the format of each type of standardized test 1 sea, prior to actual test - situation (without using actual items from the tests). . The anti-test reaction that develóped may have been in part due to unfamiliarity with the form of test items and the responses required.

It is recommended that special instructional efforts be made in the Fall semester 1976 to concentrate on pupil performance. In 1975, the performance record was weakest during the Fall semester. Some explanations were given for performance in terms of the shbrter school semester that was due to the fiscal crisis and the delay in school opening, but special attention could be given to the Fall semester pupil performance.

It is recomended that the Bilingual Program for Monroe High School be funded for the school year 1976-77, on the basis of the evidence reviewed in this evaluation.


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[^1]:    O ON the 222 stucents who completea the pre test, some iop were" " used . Lne anelvisis a' uith vaila post teets.

[^2]:    *Of the 222 who completed the pre-test, 196 students completed valid post-tests for Scale I
    **Of the 222 pupils who completed the pre test, 194 students complet $\cdots$ ed valia post tests for Scale II.

