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ABSTRACT
In 1982-83. project chasp offered bilingual instruction and support services to 100 Cambodian and 75 Hispanic limited-Engish-speaking students in the gth and ioth grades at Theodore Roosevelt High School, Bronx, New York. The golal of the program was to develop student proficiency in the Engísh language skills necessary for full manstreaming while reinforcing native language ability. quantitative analysis of student achievement indicates that: (i) overall; students met the program's English language development objectives: (2) in spanish reading, gth graders showed statistically significant improvament; (3) almost all objectives in the content areas of math, science, and social studies were met; (4) the passing rate for hispanic students in native
 and (5) the program's attendance rate was significantiy higher than the generai school attendance rate. In addition, curriculum objectives were partiy met, supportive services were successfuily implemented, appropriate staff development activities took place throughout the year, and parents of participants attended programs; conferences, and cuitural activities sponsored by project chasp. The major obstacle to the project's smooth operation was the unavailability of credentialed Cambodian persoñel. The lack of native language materials in Khmer and the fact that the cambodian paraprofessionals were extremely overextended were aiso problems. (CMG)

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T.E.E. Evaluation Report.

January, 1984
Grant Number: Gơo8202417

THEOTVRE ROOSEVELT HIGH SCHOOL
Principal:
Eaesar Previdi PROJECT C.H.A.S.P.

1982-1983
Project Birector: Garmen Miranda

# O.E.E. Bilingual Edučzion Evaluation Unit Judith Sitern Yorres, Manager 

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New York City Puulic Schools Office of Educa ional Evaluation Richard Guttenberg; Director
a simmary of the fvalilatiom
FOR PROJECT CHASP
THEOMORE RONSFVELT HIGH SCHOML
1982-1083

Project r.AASP, in its first year of à two-year funding cycle, offered bilingial instruction and support services to who cambodian and 75 Hispanic limited Eaqlish proficient students in the ninth and tenth grades. All were foreign-born and spoke eíther khmer ör Spanish at home- They varied in their native-language ábilizy proficiency in Fnglish, and their overall academic preparedness.

The goan of the proqram wis to develop students ${ }^{\circ}$ proficiency in English lanquage sikills necesssry for fül manatreaming whine reinforcing native lañuage ability. The instructional approach was based on sturents' levels of Engitsh proticiency.
A. cambination of seven funding sources suppofted the program. ritie uIl funns qupnorted the afininistrative staff white rhapter is Mow York Tity Monule 5R, ©.s.F.N., Chapter 268 . Transitional Program for Refugee Children, arat tax-leny funds adden additional dollars to the project. rurriculim materials were developed in native language arts, mathematics, añ mistory. Supportafe servicés consisted of gudance and academic counseling; home vistses. and career orientation: Staff development activities included wortshopss conferences, and attending university courses. parents of program participants attended programs conferences. and cultural act ivfites sminsored by Project CHASP: The program also referred parents to anult edecation programs.

Stüdents were assessed in English-langunge development (Criterior Referenced Engligh Syntāx Test): growth in thêr mástery of the native langtiage (Interamerican Series, Là Pruehà dè Lecturā): māthemātics. social studies, sclence, and native language studjes (teachér-made tests): and attendance (school and program records). nuantitative analysis of student achievement indicates that:

- -program stunents mastered two frasp objectives ner month on levels I and II in the fall and an average of 1.13 objectives on these levels in the spring. In level ?ll, students mastered $n, 5$ objectives per month in the fall and spring. nverall; students met the program objective in this area.
- -In Spanish reading; ninth-grade students met the criterion of statistically significant improvement.
$=$ =The program objective, that $7 n$ percent of the students would pass teacher-mane examinations in the content-äreas of matheratics, sciencé, and socizal studies wās met by students in both language groups in both semesters; except Hispanic students in fall mathematics courses.
--The passing rates far Hispanic students in native language studies were as percent in the fall and 9 percent in the spring. nata could not be reported for the i.amodian studenes in this fopa $\bar{m}_{\bar{i}}$ due to staffing limitations.
--The overail attendance rate of program studemts was bigher than the general school attendance ta a statistically significant degree.

The following recommendations are aimed ot improving the overall effectiveness of the program:
=-Creating a remediăl hilingual mâthematics cinss to providē individualization for those students who have difficulties follnwing the regular bilingual math curriculum;
--Rontacting the special Foucation nivision of the mew york rity Public schools for technical assistance in diagnosing and placing ifp students who appear to he in need of special education services:

- -Khmer-speaking counselor to facflitate commantcotion with the Camhodian students.

Ahultem Provisasty EnC

## ACKMOLL FDGFMEMTS

The production of this report as of all n. $\overline{\text { F. }} . \bar{E}$. Rilingual Educãtion Evaduation linit reports, is the resmlt of a cooperative effort of permanent sfaff and consultants admation to thase wose names appear on the cover Margaret sorza ths revewed and corrected reports, condinated The editing and production process and contributed to the guality of the wort in inumerante ways. Rearm thesin has spent many hours creating. © $\bar{\jmath}$ th pronuce, correct, fuplicate, and asseminate reports. Without their able and fafinful particination the umit conat not have handed such a large volume of work and stikl prnduced guality evaluation renorts.
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PROLECT C.H.A.S.S.P.:<br>CAMBBODIAN ĀMD HISPANIC ACHIEVEMENT<br>FOR STEDENTS AND PARENTS

FOREIGN LANGUAGEJBILINGUAL EDUCATION DEPARTMENT
THEODORE ROOSEVELT HICH SCHOOL

| Location: | 500 East Fordhan Road Bronx, Nead York |
| :---: | :---: |
| Year of Operation: | $1982-83$ <br> Title VII of the Elementary and Secondary Education $A C t$, first year of funding. |
| Target Languages: | Camoodian and Spanish |
| Number of Participants: | 100 Canbodtan students 75 Hispanic students |
| Principal: | Eaesar Previdi |
| Project Director: | Carmen Miranda |

## INTRODUCTION

Project Cambodian and mispanic Achievement for Students and Parents (CRASP) is á comprehensive bilingual secondary éducation program offering bilingual instruction and non-instructional services to 100 Cambodian and 7 Hispanic limited English profictent (LEP) ninth. and tentm-grade students at theodore Roosevelt high School in the fronx.

The progran in the first yebr of a two-year cycle; was funded of d grant from the Elementary and Secondary Education act (E.S.E.A.) Titie VII: Chaptar 1: Chapter 268; P.S.E.N., Module 5B, T.P. $\bar{R}_{3} \bar{C}_{\text {. }}$ and tax-levg were addtional funding sources.

In addition te required and elective instructional courses; students participatéd in both career and ciptural áctivities. Stáff development consisted primarily of attending college courses; professional conferences, and trāining workshops: Párental involvement in the program was achieved through parent association meetings; cultural activities; and discussions with the progran's fanily assistant.

This report will describe the projert's context; components; partici= pants; and activities; report the participants' achievemen and attendance data; andyze and interpret these data; and make recommendations for possible program inprovement. Data for this report were collected from interviews with school and program administrators, teachers, parents. students; and program assistants; classroom observatinns; and review of relevant program records: In addition, a questionnaire provided by the office of Educational Evaluation was completed by the project director.

## 1. DEMOGRAPHIC CONYEXT

## COMMUNITY SETTING

The neighborhood surrounding Theodore Roosevelt tigh School is both residential and commercial and has undergone a major transformation over the past ten gears: Vacant lots and abandoned buildings signal deterzoration. These pinssical changes have been accompanied by changes in the denographic characteristics of the residents. Once largely composed of working-cless lrish and lealian families; the area has become a community consisting of low-income hispanic and black residents with à recent in= crease in Asian familiés. Thē Asian rēsidents àe à heterogeneous group comprised of Vietnamese, Cambodians, Chinese, and Laotians.

Theodore Roosevelt students typicálly líve in néghborhoods marked by poor housing, limited health-care services, and high rates of unemployment and welfare dependency.

## SCHOOL SITE

There is a long history of services to LEP students at Theodore Roosevelt. The first pilot program for LEP students began in 1974 supported by tax=levy funds. In 1975, Project Achievement Through Bilinguā Educātion (ABLE) was funded by Title VIl. This program was institutionalized when funding ended. in l980, project Striving Upward Through College and Cāeer Education (SUCEESS) was the second title VIl grant proposal to be funded. Project CHASP is the third Títle VII project in the school.

In the fall of 1982 ; the total school register was $\mathbf{3} ; 471$ students. Of that rumber, 2,001 ( 58 percent) were Hispanic and 248 ( 7 percent)
were Indo-Chinese. School records indicate that there were 700 LEP students in the total school population. Table 1 lists the ethnicf racial composition of students in the school as a whole.

TABLE 1

EthnićciRaciál Composítion of Students in the School as a Whole ${ }^{\text {a }}$

| Ethnicity/Race | Number of Students | Percent of School |
| :---: | :---: | :---: |
| Hispanic | 2,001 | 57.6 |
| Black | 1,167 | 33.6 |
| Assian | 248 | 7.1 |
| White | 53 | 1.5 |
| Ámerican İdian | 1 | 0.2 |
| Total | 3,471 | 100.0 |

${ }^{\text {a Source. Pupil Ethnić Composition Report; October 1982, Office of }}$ Student Information Services, Board of Education of the City of New York.

## II. STUDENT GRARAGTERISTICS

Project CHASP serves two éthnolinguistic populations; hispanic and Cambodian. The Cambodian participants are the moré homogeneous of the two groups since they are from the same country (see Table 2) and share à common culture. But both groups' range of native language ábility, às well as English lānguage ability, varies from functional fliteracy to literacy. And, àll participants have varied educational backgrounds: somilie have had their schooling interrupted; some have received fewer years of education than is expacted at their age; and a few are attending school for the first time. Tābē 3 lists the number of program particicipants by age and a rade; Table $\overline{4}$ represents the distioution by sex and grade of the participants.

Project stāff suggested a number of factors that affect the Engish lànquage acquisition of participants. For the Càmbodian students, the contrast between the Eṇ̣lism alphabet and the Khmer alohabet is a major variable. For the Spanish-speakinq students, English lanquaqe acquisi= tion often depends on the amount of exposure to Enqlish within their neighborhoods. Proyram personnel also noted that the bilingual students have mañy hēalth problems which stem from the stress associated with financial difficulties and cultural adjustment. These factors àso
 in the program; by grade.
tarle ?

Number and Percent of Program Students by Country of Rirth

| Country of birth | Number | Percent |
| :---: | :---: | :---: |
| Puèrto Rico | 64 | 81 |
| nomiñicañ Repuhlic | 8 | 10 |
| Honduras | 4 | 5 |
| Pañama | 2 | 3 |
| Ecuador | 1 | 1 |
| Total | 79 | 1 10 |
| C.àmbodiã | 75 | 100 |
| total | 154 |  |

- Neer sin percent of the spanish-speaking students were horn in Puerto Rico.

TABLE 3
Number of Program Students by Age an $\bar{d}$ Grāe

| Age | Grade 9 | Grade 10 | Total |
| :---: | :---: | :---: | :---: |
| 14 | 8 |  | 8 |
| 15 | 11 |  |  |
| 16 | 30 | 6 | 11 |
| 17 | 20 | 19 | 36 |
| 18 | 15 | 7 | 39 |
| 19 | 6 | 10 | 22 |
| 20 | 2 | 9 | 16 |
| 21 | 2 | 7 | 11 |
| $2 \overline{21}$ | 1 |  | 9 |
| 23 |  | 1 | 1 |
| TOTAL | 95 | 59 | 154 |

Overage Stüdents
All Students

| Number | 76 | 53 | 129 |
| :--- | :---: | :---: | :---: |
| Percent | 80.0 | 89.8 | 83.8 |


| Hispañic <br> Students | Nunbèr | 50 | 9 | 59 |
| :--- | :--- | :---: | :---: | :---: |

Cambodian Students

| Number | $\overline{2} 6$ | $4 \overline{3}$ | 69 |
| :--- | :--- | :--- | :--- |
| Percent | $\overline{8} \overline{6} \overline{\overline{7}}$ | 95.5 | 92.0 |

Note- Shaded boxes indicate expected age range for grade.

- Eighty-four percent of the program students are overage for their grade.
- The high percentage of overage Cambodian students (92 perceñ ) reflects the education and migration history of this group.

TABLE 4
Number and Percent of Program Students by Sex and Građe Āll Students

| Grade | Number Male Studemts | Percent of Grade | Number <br> Female <br> Students | percent of Girade | Total Number | Percent <br> of All Stidents |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9 | 62 | 66 | 32 | 34 | 94 | 61 |
| 10 | 33 | 56 | 26 | 44 | 59 | 39 |
| TOTAL | 95 | $62^{\text {a }}$ | 58 | $38^{\text {a }}$ | 153 | 100 |

- Male students outnumber fenales in both the ninth and tenth grades.
- Most program stedents are in the ninth grade.

TABEE 5
Time Spent in the Bilingual Proqram
(As of June 1983)

| Time Spent in Bilingual Program | Nur:ber of Grade 9 | Sididents <br> Građe 10 | Total |
| :---: | :---: | :---: | :---: |
| <l Academic Year | 5 | 1 | 6 |
| 1 Academic Year | 86 | 59 | 145 |
| 2 Academic ${ }^{\text {cears }}$ | 2 |  | 2 |
| 3 Academic Years ${ }^{\text {b }}$ | 2 |  | 2 |
| Total | 95 | 60 | 155 |
| a Rounded to the nearest year. |  |  |  |
| ${ }^{\text {b Reflects participation in previous bilinqual program }}$ |  |  |  |
| - Ninety-seven percent of the students had participated in the program for one year or less. |  |  |  |

## PROGRAM PHILOSOPHY

The Project CHASP philosophy of bilinqual education focuses on the need for English language proficiency yet recognizes the importance of maintaining native lanquage and native culture. The project emphasizes enrichment rather than remediation. The instructional approach presupposes that English language proficiency may be obtained througn English as a second language (E.S.L.) instruction, and content-area instruction in the native language with a gradual increase of English usaqe in content-area instruction. Students' individual programs reflect their level of Englisin language proficiency.

ORGANLZATIONAL STRUCTURE OF PROJECT CHASP
Figure 1 illustrates the operational structure of Project CHASP. Ás noted, the project is under the direct supervision of the assistant principal for foreign lanquages and bilinqual education who supervises instruction in the bilingual program as well as the aciuities of the Title gll project director and staff. The project director coordinates the activities of the bilingual program staff, provides in-service training, and develops materials eppropriate for the bilingual program. In addition, the project director coordinates CHASP's activities and services with those of otker programs providing sérvices to $\overline{\text { the }}$ bilingual students.

Figure 1
Organization of Bilininual Progran at Theodore Roosevelt hioh School


60

## PROGRAM OBJECTIVES

The program proposed the following instructional and non-instrictional objectives:

## Instructional objectives

1) At least 60 vercent of the students enrolled in Enqlish as a second lanquage will master at least 10 more objectives when post-tested on the same level of the Criterion Referenced English Syntax Test (CREST).
2) At least 70 percent of the stucents in the Cambedian program will attain a criterion level set on teacher-made mathematics, science, social studies, and native language tests in Khmer.
3) At least 70 percent of the stedents enrolled in individualized mathematics instruction will pass teacher-developed eriterion referenced tests (at least one per month).
4) Students who receive a full year of instruction will insrease their performances on the appropriate level of the Prueba de Lectura at the . 05 level of significance.

## Staff Development Objectives

1) Fifty percent of the stāf will be involved in other than iñservice trāining including university courses; professiōnāl semiñās, workshops; and conferences.
2) One hundred percent of the staff will be involved in iñservice trainin̄ including such areas ás the development of curriculum suitāble for speciàl çásses, and individualization of instruction.

## Parent/Community Objectives

1) At least $\overline{6} 0$ percent of parents of student participants will visit the program once during the year to check on the progress of their children.
2) At least 80 parents will participate in evening classes for high school equivalency preparation, E-S.t. instruction, andor career training.
3) At least 40 percent of parents of participants will attend school functions such as Parent Association meetings, Open School Days, ássembly programs; and school trips.

The assessment of the extent to which these objectives were carried out is integrated throughout this document in the appropriate sections.

The major problem encountereg by project CHASP in carrysng out its objectives stens from the difficulties in obtaining certified khmer Ianguage teachers for the Cambodian camponent. Recause of the ceredential. ing requirements nf both the New vork state Department of Education anc New York tity Roard of Education; there is eurrently no pool of kher language teachérs from phich to draw, Ás a result, the project hās relled on tion Cambodian paraprafessionals who work translating and developing native langugge materials and who assist in the éassrooms with translation. This limitation made it impossibie for project chasp to offer paral lél content-area instruction in the rambodian component of the program. However. an active search is under way, and it is anticipated that $\bar{a}$ Khner language teacher will be hired in the fall of 1983.

As à result of being anable to híre a teacher fō instruction in Khmér and so develop appropriate tests; the instructional objectives in the areas of language arts. social studies, and science could not be met. The Cambodian paraprofessionals were able to assist in deveioping only mathematics tests during this academic year-

FUNDING SNURCES
Project CHASP was funded for $1982-83$ as preposed with the excephiton of the parentà training component wich corsisted of one perenc trainer position: Tris was cut from the budget and the progect mas modifjed

 Spanish. The enralment was over thirty with a watting list for $\bar{t} \overline{\text { an }}$ classes.

Project
 tional Program for Indo-rhinese Refugees (T-P.R.R:-) ; and tax-ievy funds:

Table 6 presents the funding sources of nen=instructional program compoments. As Table f indicates, the primary funding sources for the nomanstructional enmponents are Title VII, Chapter $I_{i}$ and tax-lev.

In tepms of the instructional component of project cumsp, funding sources are made avaliande for serving the carget students as follows:

| P. S.F.N. | 4.n E.S.L. teachers |
| :---: | :---: |
|  | 3.n E.S.L. pducationêl assistants |
| Chapter i | O. 2 E.S.t. coordinator |
|  | 3. E Saty teachers |
|  | n.f native language arts teacher (Spanish) |
|  | saft Fos.t. educationail assistants |
| Medute SR | 1.f bilirgual sochal studies teachers |
|  | 1.0 bilingual science teacher |
|  | 1. n nätivè language arts teacher (spanish) |
| Chapter 368 | i.n bilingual mathematics teacher |
| T.P.P.C. | J.t. E.c.t. Teacher |
| Tax Levy | D. 2 G.E.n. coodintor |
|  | 1.n social studies tezeher |
|  | 2.0 EnS.L. teachers |
|  | $1.4 \mathrm{G}_{4} \mathrm{~F} \mathrm{n}_{\text {, tearhers }}$ |
|  | 1.6 native languge arts teachers |
| Title Vil | 2.f) Carondian educat bral assistants |
|  | 2.n spanish exucational assistants |

[^1]TABLE 6
Funding of Non-Instructional Program Components


## STAFF CHARACTERISTICS

The chāacteristics for both professional and paraprofessionā stāf at Roosevelt Righ School who teach or work with Project CHASP students
 allocated for those functions, educational background, certificationf licensing information, total number of years of experience in education in general and in bilingual/E.S.t. in particular.

These data provide a teacher's profile as somene with an average of 9.9 years experience in education in general; 5.3 years experience in bilingual education; and 4.0 years teàching English às à second language. Given the relative newness of bilingual education and Eng ish as a second lanquage in relation to the other certification áreas, these findings indicate a caçre of experienced teachers working with project CHASP students.

In addition to the documentation provided herein; information obtained during an interview with the project director indicated that there is little turnoover amonq the bilingual project personnel who at present, average over five years in bilingual programs at the school. It was also pointed oút that all bilingual and E.S.L. staff are teaching with appropríatè licenses.

Once àgàin, the only mājor stāfing problem for Project CRASP hás been that of identifying Indo-Chinese, particularly Cambodian, personne: fō $\overline{\mathrm{t}} \mathrm{he} \overline{\mathrm{p}} \mathrm{roje} \overline{\mathrm{c}} \mathrm{t}$.

## IV. INSTRUCTINNAL COMPONENT

The instructional component of Project chasp offers à general comprehensive high school program for LEP students. Programming is fairly uniform. Students typicāly recēive thrē periods of English language instruction each day. Placement in native language courses is done according to native language proficiency, and placement in content= àreá coursés primarily depends on graduation requirements, A sample program for both a ninth- and tenth-grade nrogram student follows:

| Grade 9 | Grade in | Period |
| :---: | :---: | :---: |
| English as à second language | Bilinguà iocience | 1 |
| --1 | E.S.L.- | 2 |
| E.S.t. Reading | : | 3 |
| tunch | tunch | 4 |
| Physical Educatáon | Physicál Education | 5 |
| Bilingual Social Studies | E.S.L. Reading | 6 |
| Rilinguãl Mâthematicss | Rilingual Màthematics | 7 |
| Native Language Arts | Rilingual Soctal Studies | $\overline{8}$ |

These schedules reflect a typical block program for the two grades although there is individualization for students based on academic and language levels. All classes meet dally for 40 minutes each, with the exception of the first three levels of E.S.t. which meet for 80 minutes each.

## CONTENT-AREA INSTRUCIION IN THE NATIVE LANGUAGE

The program objective is to offer both a Spanish and Khmer curriculum that parallels the English curriculum offerings. Thus far, the program has been successiul in fally implementing the Spanisn component, The Khmer component has been less successful, since there are no quāified Knmer-speaking teachers àvalable in the metropolitan àrea. Eurrenty. Cambodidn students récēive content-area instácuction in Eng̣lish with translation by, and instractional assistance from, two Khmer-speaking paraprofessionals.

During the fall semester, there were ten sections of global history: six in Spanish; two in Spanishjenglish, and two in English/khmer. Thére were three general science sections, two in Spanisn añ ōe in Engioshy Khmer; two sections of biōogy in Spanish/English of which one was a Regent's course. Mathematics offerings included four sections of math skills in Spanish, four sections of preadgebra skills in Spanish, and two sections of algèbrà in Spanish/English. Students also had the option of taking economics and American stadies in spanishongilisñ; The second semester was similar to the first with the exception of fewer sections of global history (eignt instead of ten).

## Clásssoom Ob

Three observations were màde of content-àreá cilasses taught bílingually ōr exclusively in spanísñ. The primary focus of these observations was the lessons' objectives and the students' readiness for attaining these objectives. In all three classess, thè objectives wèe precisé and the
students seemed to understand the purpose of the lesson.
Two global history classes were observed: one ninth=grade class taugnt in Spanish and one tenth-grade ciass taught in Engisin. In the nintn-ğade ciass, students recéved wholegoroup instruction in spanisn. The topic was the family structure and lifestyle of the Taino Indians. Stưdents rāised many questions and had many comments. The teacher presented the material with both professional competence and ease. The stodents responded às if they felt comfortable with both the subject matter and the teacher. The tenth-grade class was taught by the same teacher. but was conducted in English for the Cambodian students. The topic was the Russian Industridization: Students were very attentive. The tone of the class was more serious than that of the nintharade class. This was pernaps becāuse the topic ás comunisin a sensitive sūject within the lndo-Chinese community. ln both ciasses, maps, notes,


A tenth-grade biology c̄lāss fō Cambōjān students was díso observed. Thírty-four students were present, but the somewhat crowded comditions in no way detracted from the instruction. The topic was a review of the fertilization process in human reproduction. The students were hesitant to respond. It could not be determined if this hesitancy was due to embarrassment $;$ lack of language proficiency, or a combination of both. There were two Khimer speaking paraprofesstonās in the room assisting students; and the teacher was sensitive and helpful to the students.

In all of the observed ciasses; the environment was one of nigh expectations for the students. For the most part, students were orderly.
actively engaged in the tasks at hand, and comfortable workinq as à whole group or independently. In āll instances; the teacher explained the lesson objectives and wrote them on the board.

The observed teachers appeared genuinely excited about the subject ratter and their students' progress. In interviewing Project ChASP
 and mission permeated the conversations. A few of the problems they noted dealt with the heterogeneity of levels of language proficiency. academic skilis in théir ciasses, ana the paucity of native language materiāls, especiālly in Khmer. The math and native language studies teachers expressed satisfaction with the math language materials available for their groups.

Tablés 7 and 8 present data on content-area instruction for the fall and spring semesters.

T㪉E $\bar{J}$
Bilinqual Instruction in subject Āreas (Faii)

${ }^{\text {atiass }}$ is exclusively for program students.
Bilingual Instruction in Subject Areas (Spring)

| Course Title | $\mathrm{Ho}_{0}$ <br> of <br> Classes | Aver. Reg: |  | Language(s) <br> 1 of Instruction | Criterià io Stadent Selection | Pardprofessional Assistance Arailable? | Percent of Moterials in Mative Lancurge |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Global History (lic | 1 | 25 | 5 | Spanish (100\%) | LAB Scores, | Yes | 100 |
| Globà History | 2 | 34 | 5 | Spanish (100\%) | teadiner | N0 | 100 |
| Global History? | 2 | 34 | 5 | Spanish (100\%) | recomenta. | 16 | 85 |
| Global History 3 | 1 | 34 | 5 | Span/Enq. ${ }^{\text {P }}$ (85\%/15\%) | tion and | 16 | 85 |
| American Studies 1 | 2 | 34 | 5 | Spanfenq. $(704 / 30 \%)$ | parental | H0 | 70 |
| Economics | 1 | 34 | 5 | Span/Eng. (70\%/304) | requésts | 10 | 70 |
| Math Skills (MLA) | 1 | 25 | 5 | Spanish (100\%) |  | Yes | 100 |
| Math Skills | 3 | 34 | 5 | Spanish [100\%) |  | $\sqrt{10}$ | 100 |
| Pre-Algebra | 3 | 34 | 5. | Spanish (000\%) |  | No | 100 |
| Algebrd | 1 | 34 | 5 | Span/Enq. (80\% 2004 ) |  | 10 | 80 |
| General Science? | 2 | 34 | 5 | Spanist (1009) |  | Hio | 80 |
| Biology 2 (100) | 1 | 34 | 5 |  |  | H0 | 80 |
| Biology 2 (Regents) | 1 | 34 | 5 | Span/Eng: (70\% $/ 30 \mathrm{BH}$ |  | N0 | 10 |
| Global Mistory ${ }^{\text {a }}$ | 1 | 34 | 5 | $\begin{aligned} & \text { English } \\ & \text { Xher (B94/29y } \end{aligned}$ |  | ress | 10 |
| Global aistery ${ }^{\text {a }}$ | 1 | 34 | 5 | $\begin{aligned} & \text { English } \\ & \text { Bhaec (B0y 20y) } \end{aligned}$ |  | res | 10 |
| General science? | 1 | 34 | 5 | $\begin{aligned} & \text { English } \\ & \text { Kimer ( } 800 y^{2} 20 \% 1 \end{aligned}$ |  | Pes | 10 |

${ }^{\text {Calass }}$ is extlusively for progran students.

## NATIVE LANGUAGE STUDIES INSTRUCTION

Project CHASP offers à wide range of native language studiés courses in Spanish: 13 sections in the fall and 11 in the spring. Course offerings include Spanis̄n for slow learners, Spanish qrammar, composition and litérature, and ávancé placement literature. Several of the courses are eleventh- and twelfth-grade levels and may be taken as electives even after LEP students are mainstreamed: The Spanish foreign language curriculum offerings at Roosevelt Hign School facilitate project CHASP's capacity for carrying out its goal of enrichment and mantenance of the first and in some cases, second and thira languages of program students.

An obsérvation of a ninth-grade Spanish language studiés cláss reveáled an aboveaverage interest in learninq the lanquage. The teacher's warin and supportive approach to both the content of and attitude towari language learning seemed to facilitate communcation.

Tables 9 and 10 present data on instruction in the native language for project students.

TARLA

Mative Language Instruiction for spänishi-speading stuidents (fāli)

| Couirsē Titlē and tevel | Mininere of ilasses | Average fllasse Req. | cilass pds. Per theek | Proprim students Fxclusively? | nescription | Curriculum or Matērial in lise |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LNI | 1 | 20 | 10 | Yes | Spañish for slow learners | Teächer - mide materials |
| L+3 | 1 | 20 | 5 | Yes | $\begin{aligned} & \text { Spanish for } \\ & \text { slow Jearners } \end{aligned}$ | Teacher-mode materials |
| 156 | $?$ | 34 | 5 | $\mathrm{N}_{0}$ | Spanist grambr and cmaposition | $\begin{aligned} & \text { Espanol Ictivo, } \\ & \text { Rook } 17 \end{aligned}$ |
| LS 45 | 1 | 34 | 5 | M | Spanish gramadr and litēēātürē | 2 Yro Spanish revlēn Leyendas tatinoomericanas |
| LS 5.5 | 3 | 34 | 5 | 16 | Spanish/merican literature | 3 Yr. Spanish revier folería Hispunicd |
| ts 65 | ? | 34 | 5 | \% | Sponish literature | 3 3r. Sponish review Tesoro Hispanico |
| L. 75 | 1 | 34 | 5 | Ih | Spinish literature | Mejora tu Espanol Literatura Moderna Hispanoamericand |
| LS RS | 1 | 34 | 5 | 110 | Spanish IIterature | Casond, mindos y Litersturd Moderna Hispanodmericand |
| LSAP 1? | 1 | 34 | 5 | 15 | haranced place. ment IIterature | Therud; Morges; Matuté, lörca, y Inamuno |

TABLE 10
Native Language Instruction for Spanish-Speaking Students (Spring)

| rse title | r |  | Class pds. | Students |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| and Level | Cl | Classe Reg. | Per |  |  |


| LN $1 / 2$ | 1 | 20 | 10 | Yes |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\underline{L} \bar{M} / \overline{4}$ | 1 | 20 | 5 | Yes | Curricular materials |
| LSG Üngraded | 2 | 34 | 5 | No | remàin the same |
| LSAS 9/10 | 2 | 34 | 5 | No | as in the fall. |
| L\$5S 10.11 | 2 | 34 | 5 | No |  |
| LSTS 11 | 1 | 34 | 5 | No |  |
| LS8S 11 | 1 | 34 | 5 | No |  |
| LSAP 12 | 1 | 34 | 5 | No |  |

ENGLISH ÁS A SECOND LANGUAGE INSTRUCTION
The E.S.L. component of Project CHASP is comprised of thirteen classes offered per semester; four of which are intensive levels offered two periods a day. The E-S.L. coordinator indicated that tmere are five actual E.S.L: levels: beginning (1,2), intermediate (3); and advanced (4,5). The first lēvels deà primárily with oral comprenension skills and introduce composition ás students progress through the levels. Each E.S.L. level hás an accompanying reading coursé.

There are é $\bar{q} \bar{h} \bar{t}$ E.S.l. teachers and six paraprofessionals serving the schooi's 800 LEp scudents across the five levels. Placement in a given level is contingent upon entry level skills measured by a teachermade written test. an oral interview and reading selection from the LADO series. Students may be moved into another level at the discretion of the E.S.L. coordinator or the E.S.L. teachers.

One of the unique aspects of the E.S.t. needs for LEP students at Roosévelt kigh School, according to the E.S.t. cooralinator, is that theré äre major differences in the skilis developed and required for the Hispenics as compared to the camodians. He stated that the cambodians often have developed academic English language skilis but need practice in conversational Engilish to attain fluency. The Hispanic students; in contrast, have the necessary oral language skills in English but need the writing skills. This neterogeneity in E.S.L. classes with both groups combined for instruction necessitates more individualization and multiple group planning in order to reach all of the varied levels and particular needs of the students.

Observations of three E.S.L. classes $==1$ evelis $\overline{1}, \overline{2}$; and $\overline{5}=-\quad$ reveated that in fact ${ }_{\text {u }}$ the coursēs àe sequentiāl às described. The students were highly motivated and uninhibited by the second language. A range ōf activities fron reviewing now, what; where, and when questions $=\bar{z}$ to introducing present tense affirmative/negative questions $=$ to constructing persuasive compositions in oreparation for the $\bar{R}, \bar{C}, \bar{T}$. exams were observed. In each casé, the objectives were clearly stated and the lessons were $\mathfrak{f i g h} l y$ structured and organized. Students worked coopera= tively in all the classes.

Materials in use in the E.S.L. component consisted of numerous rexographs as well as story readers and samples of literature (i.e. folktales).

Table 11 presents data on E.S.L. instruction for project students during the combined fall and spring senesters.

Table if
Instruction in English às a Second Language and English Reäding (Fāli and Spring)

| Course Title and Level | Number of Classes | Average Class Reg; | Class Pods. Per Meek | is Class for Program Students Exclusively? | Description | Curricilum or Material in Use |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LEIN | 2 | 25 | 10 | Yes | ESSL striucturé for slow leamers | Teacher-prepared materials; tado |
| LE] | 8 | 25 | 10 | No | $\begin{array}{\|l\|} \hline \text { ESE Structure for } \\ \text { begimers } \\ \hline \end{array}$ | series; Books 1-4 |
| LE2 | 10 | 20 | 10 | No | ESE seructure for beginners |  |
| EES | 10 | 20 | 10 | No | $\begin{aligned} & \text { ESL structure } \\ & \text { intermediate } \\ & \hline \end{aligned}$ |  |
| LE4 | 6 | 15/20 | 5 | No | ESL intermedrate |  |
| LE4A/5A | 2 | 22 | 5 | $N 0$ | ESL-Engl Boan: Bil |  |
| LE5 | 5 | 5 | 5 | 16 | ESL-Advanced | BIantoon, Composition; Lado, Book 5 |
| LELR | 3 | 34 | 5 | No | ESt Reading for beginners | Susan Siegel, Busic Skilis, Reading/writing |
| EENR | 1 | 25 | 5 | Yes | ESI Reading for şour leàrnērás | Dixon; Eng. Step ty ztep; teàchers indè màterials |
| LE2R | 1 | 34 | 5 | No | EST Reding for beginners | Real Stories (bks 1-2) |
| LE3R | 6 | 34 | 5 | No | ESt ReddingIntermediate | Journey to Frace |
| LEAR | 5 | 34 | 5 | No | ESL Reading- Intermediate | Turning Points |
| HE5R | 4 | 34 | 5 | No | ESL Readina/Advo. | American folktales |
| LE4/5AR | 2 | 20/34 | 5 | Yes | $\begin{aligned} & \text { EsifReading } \\ & \text { Eng. Don, } 8 \mathrm{il} \text {. } \end{aligned}$ | Int. Folktales |

The language policy utilized by Project CAASP as described by the project director and observed by an evaluator is as follows:
--E.S.t. - 100 percent English;
--Native tanguage Studies - 100 percent Spanish;
--Content-Area Instruction - 100 percent Spanisii in the ninthgrade and 90 percent Spanish in the tenth-grade.

In all segen classes observed, which represented a cross-section of Project CHASP's curriculum, the policy was strictly adherred to for Spanishi and English instructioni. In the case of ccurses for the cambo: dian students; English was the primary language throughout except for the assistance of the paraprofessionals in translatina concepts into Khimer.

The languaqe ruies appeared evident to students who infrequently code-switched between themselves and the teacher or among themselves. The exception to this rule was when Cambodian students spoke to the paraprofessionals in Khaier an order to understand the English content presented by the teacher. The evaluator was impressed by the amount of nātive language instruction taking place iñ Project CHASP in Spanish, as well as the intensive E.S.L: instruction that the bilingual students were receiving.

## V. NON-INSTRUCTIONAL GOMPONENT

The non-instructional component of project chasp consists of such supportive services as counseling, career orientation, visits and contacts̄ by the family assistant, parent educātion and trāining, curriculum development, stāff development, and extracurriculár activities. These non-instructional aspects of the project àre présented ás part ōf ān integrated congitive/affective approach to learning.

## SUPPORTIVE SERVICES

The supportive services rendered to Project CHASP students by the family assistant; the guidance counselor, and the grade advisor can be observed in the halls, offices, classrooms, and wherever the bilingual students conaregatē.

The family assistant works primarily as a liáson between the high
 with her revealed a workload of approximately five to ten parents per day, in addition to ongoing phone calls and home visits. Some of the activities in which she is involved include: referrals to agencies; such as socià services; and hospitals; actually accompanying students to agencies; and meeting with parents and students to diszuss problems and work out difficulties. The family assistant is a member of the Hispanic community and feels she relates very well to the students and their families: She stressed her frustration in not being able to speak kher and communicate more with the Cambodian parents. In terms of the students,
however, she felt that the Cambodians utilized her services as much as the Hispanic students.
 on each student in order to facilitate montoring and follow-up on each case. Dne of the majo issues she constantly deals with is that of culture shock and the generation gap between students and parents whose values are different from mainstream American society.

In 1969, the Project CHASP guidance counselor became the first bilinqual counselor in the school. Since that time; she has worked closely with LEP students in terms of admitting, testing, placing, interviewing, and programming for bilingual program students. She also works as a liaison between stadents and parents in terins of attendance patterns. grades; report cards, etc. According to the counselor, one of the major problems faced by the bilingual students is a lack of consistency in schooling dué to mobility patterns and attendance rates. Mucn ō the work beyond academic ádvisément deajs with counseling and assisting students with both personal and academic problems with the ultinate ajm of convincing them to stay in school and obtain their diploma-

The bilingual grade advisor described her functions as similar to those of a guidance counselor in that she assisted with academic advise= ment; referrals to various agencies; and career and personal counseling. The grade advisor explained that she felt a commitment to the students in the bilingual program because she had also jmangated to the United States and could rēatē to the adjústment process thē à áe undergoing.

An evaluator observed all support personnel in the conduct of their particular roles. The atmosphere created was one of openness; concerñ and willingness to listen. All three staff members were extremely busy with students coming in and out throughout the interviews. in ali cásēs, students were given direct and sensitive replies to their questions or needs. In 1982-83, 31 students left the program. Table 12 presents a breakdown by grade of the number of students leaving the program and their reasons for leaving:

Appendix $B$ presents detailed information pertaining to the suppor= tive services aspect of Project CHASP.

TABLE 12
Numiter of Students teaving the Prograin

| Reáson for teaving | Grade 9 | Grade 10 | Total |
| :---: | :---: | :---: | :---: |
| Transferred to änother school | 6 | $\overline{4}$ | 10 |
| Returned to native country | 3 |  | $\overline{3}$ |
| Discharged (Job) | $\overline{3}$ |  | 3 |
| Discharged (Marriage) |  | 1 | 1 |
| $\begin{aligned} & \text { Discharged } \\ & \text { (Reason Unknown) } \end{aligned}$ | 10 | 1 | 11 |
| Truant | 3 |  | 3 |
| TOTAL | 25 | 6 | 31 |

Thís particular áspect of Project CHASp is an integral part of the ongoing process of obtaining, modifying, and developing native language and E.S.L. materials appropriate in terms of the language proficiency and academic skill levels of LEP students.

Spanish materials considered paralel to their manstream counter= parts are being adapted, and many are currently in use for mathematics; preatigebra; general science, and global history. Cfassroom onservations ànd actual review of materials in use validated the àcocmplishment of this facét of the proposed ōjectives.

In terms of the cambodian component, however: only two areas have been developed and are présently in úse in khmer -- giohā history and generāl science. An evaluator reviewed numerous rexographs writeen in Khener for these subjects and saw them utilized in the classrooms; basi= cally for purposes of translation for Cambodian students.

## STAFF DEVELOPMENT ACTIVIIIES

Stāf development for project CRASP is comprised of three focets. The first hás included on-site activities such as orientation meetings, monthly departmental métings; in=service workshops, demonstration lessons, and lectures. The entire bilingual program stāf $\bar{f}$, as well ás school administrators, have particioated and hà active roles in these periodic stāff development activities. Four of six actividies held this year were rated "somewhat éffective" by the project director, with the others rated as "very éffective."

A second type of staff development has consisted of workshops and conferences outside the actūal program setting. Four workshops and two conferences dealt directly with Title Vil issues such as evaluation design; Title VII applications; research and a "state of the art" for bilingual education (spansored by NABE; N. Y-S.E.D:=Bureau of Bilingual Education, and N.Y.C. Board of Education=Office of Bilingual Education). In addition, the Board of Education sponsored two workshops addressing LAB tésting and the BESIS survey. The project director attendē àll of the above activities.

Three workshops were conducted for support personnel which dealt with career advice (counseling), financiāl āid, ènd college admissions. These were sponsored by CUNY and Aspira, respectively. The bilingáal grade advisor attended these workshops.

The third type of staff development consisted of college level coursework at Fordham University, Hunter College, and City College for four professionā stāff members. The courses were desscibed as "very applicable" to the bilinguāl program and all would be consideré às part of bilingual teacher education preparation. The courses were in
 Puerto Rican culture and literaqure. In adoition to graduāte levè work, five paraprofessionās were enrolled in courses àt Bronx and Brooklyn Comminty Colleges. They āso assessed the courses as "very applicable" to their participation in the project. The courses revealed a coross-section of líberal àrts courses representative of an associate degree curriculum; namely, English, science, math, speech, Spanish, and
thistory.
Appendix $C$ presents data ori staff development activities in school, outside school; and at universities for professional and paraprofes= sional staff.

## EXTRACURRICULAR ACTIVITIES

In addition to the basic non-instructional activitiés of Project CHASP, a number of extracurriculár áctivitiēs in which prōgrām students Darticipate are noteworthy. One of the major activities, and a source of einployment for students, is rolleps, which provides occupātional skills and English. During the academic year. approximately 25 Hispanics were érained in record-keeping and business machines tnrough this program and 25 Car dian students were trained in typing. This summer, it is estimated that more than 30 Hispanic and Indo-Chinese students will tāke the intensive courses four times à week, four hours à day during the month of July.

Bilinqual students also participate in cuitural activities through= out the year such as: Pan=American Day, Cambodian New Year, and other holidays which highlight the ethnic composition of Roosevelt Righ School.

In terms of awards and academic éxcellence, this past year bilingual project students were awarded three out of six United Féderation of Teachers' Awards and $\bar{t} w \mathrm{w}^{\prime}$ out of five Regents' Scholarships. Out of the top ten students in academic performance; seven were from the bilingual project and another bilinqual student received a scholarship from Pitney-Bowes; a local business firm. Several of the students in Arista;
the nátional honor society, were also project stodents. Finally, one of the Hispanic students won third prize for an essay in the puerto Rican Heritage contest.

These accomplishments are evidence of the motivation, discipline; and overall academic excellence manifested by Project CHASP students and they stand out to any visitor reading the list of honor students and lists of awards dispidayed in the lobby of the high school.

## VI. FINDINGS

The following section presents the assessment instruments and procedures used in evaluating the attainment of program objectives.

ACQUISITION OF ENGLISH SYNTAX
The Criterion Rēferenced English Syntax rest (CRF ST) was used to measure achievement in this areã: the CREST was developed by the New York City publice schoois to assess mastery of instructional objectives of E.S.L. curricula at the high school level. There are four items for each objective and mastery of an objective is achieved when three of the items are answered correcty. The test has three levels: beginning (I), intermediāe (II), and advanced (III). The maximum score on Levels 1 and 11 is 25 and 15 on Level lil.

A gain score was calculated by sübtracting the pre-tést mean score from the post-test mean and an index of objectives achieved per month was then computed. As the tést's levels have not been verticaliy equated students must be pre. and post-tested on the same level. This resuits in ácéling éffect for those students who achieve high scores on the pre-test. In those cases where pre- and postetestinss are an different lēveís no gén scorés or objectivés per month index may be computed. Information on CREST objectives and psjchometric properties appears in the Techniçā Manuāl, Mew York City English as a Second Language Ḡiterion Referenced English Syntax Test.

[^2]Program objectives called for the acquisition of 10 CREST objectivés pér academic year, approximately 1.10 objectives (in tems of gán scores) pér month of attendance. The CREST was àdministered àt the beginning ānd end of the fall and spring semesters. Table 13 presents the test results by semester:* Data were missing or incamplete for 112 siudents in the fall term and for 96 students in the spping term: Examination of Table 13 reveals that in the fall tem program students mastered 2 CREST objectives per month on Levels 1 and lil. The rate of mastery for Level Ill students was 0.5 CREST objectives. In the spring, students on tevels i and ill mastered an average of 1.13 objectives while tével lll students mastored 0.55 objectives per month, the same ás ouring the fall semester. These results indicate a lower rate of curricular objectives mastered in the spring than in the fall. However, overall, the program objective in this àrea was achieved.

[^3]TABLE 13
Results of the Criterion Referenced English Syntax Test
(All Program Students; Pre- and Post-Tested on Same Test tevel)
-all

| Test Lével | Number of Students | Average Nun objectives Pre | mber of Mástered Post | Objectives Mastered ${ }^{*}$ | Average Months of Treatmeñ | Objectives pastered Per Mónth |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 22 | 7.50 | 12.41 | 4.91 | 2.65 | 1.85 |
| 11 | 15 | 13.80 | 19.80 | 6.070 | 2.72 | 2.21 |
| 111 | 2 | 12.00 | 13.56 | 1.50 | 3.00 | 0.50 |
| TUTAE | 39 | 10.15 | 15.31 | 5.15 | 2.69 | 1.91 |
| Spring |  |  |  |  |  |  |
| 1 | 23 | 8.52 | 13.17 | 4.65 | 3.60 | 1.31 |
| II | 24 | 16.79 | 20.33 | 3.54 | 3.78 | 0.95 |
| 111 | $\overline{8}$ | 9.63 | 11.63 | 2.00 | 3.77 | 0.55 |
| TOTAL | 55 | 12.29 | 16.07 | 3.78 | 3, 70 | 1.04 |

## NATIVE LANGUAGE READING AND COMPREHENSION

Spanish reading and writing were assessed with the Prueba de lectura, Level Ill, part of the Interamerican Series of tests published by Guidance Testing Associates. The purpose of this test is to compare achievement in English and Spanish for Spanish-speaking students from the Western hemisphere. Test items were selected for cultural relevance to both mánstream and Hispanic cultures. rest forms $\overline{C E}$ and $\overline{D E}$ are diviand into levels and correspond to the following grades:

| Level | Ages | Grādes |
| :---: | :---: | :---: |
| 1 | 6-7 | 1=2 |
| 2 | 7-8 | 2-3 |
| 3 | 9 F 11 | 4-6 |
| 4 | 12-14 | 7-9 |
| 5 | 15-18 | 10-12 |

The publishers recomend that local morms be developed for testing programs. Technical information may be found in Guidance Testing Associates Examiner's Manual. Prueba de Lectura, St. Mary's University; One Camino Santā Marià , San Antonio; Texas 78284:

The program's stated objective was for improvement on the pruebade Lectura at the p<os level of statistical significance. Table 14 shows the results for this test. Ninth-grade students met the criterion of statistically significant iaprovement. There was an insufficieñ numbèr of tenth graders for computation of statistics. Students were tested on Level 3 of the Prueba de Léctura which is bélow grade level, indicating
that the Spanish reading skills of these New York City students were below those of the group for which the test was developed (Puerto pican students on the island). Level 3 appears to have worked well fō the New York group: the preipost-correlation was high, the mean gains reasonable, and the effect size for ninth-grade students was quite large.

## TABLE 14

## Native Lanquage Reading Achievement

Significance of Mean Total Rav Score Differences Betreen Initid and Final Test Scares of Students with full Instructional

Treatment on the Pruebd de Lectura; Level 3

| Gradê | N | Pre= | Test <br> Standdrd <br> Deviation |  | t-Tēst <br> Ständard <br> Deviation | Mean Difference | Eorr: Pre/post | F. test | level of significance |  | Effect size |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9 | 34 | 39,97 | 18:08 | 49.29 | 26:28 | 9,32 | -912 | 6.51 | ,0001 | 8.35 | 1.12 |

MATHEMATICS, SCIENCE, AND SOCIAL STIIDIES ACHIEVEMEMT
Program objectives in this area called for a passing rāte of $\overline{7}$ pércent on teacher-made tēsts. Tables 15 and 16 present passing rates for all program students and for hispañic ana Cambodian students by gárade àñ semester.

The overall passing rates of students who were reported as enrolled in mathematics classes were 75 percent in the fall and 74 percent in the spring. The overall passing rates in science courses were of percent in the fall and 95 percent in the spring. Finally, the overall passing
 percent in the spring.

There was some variation between issing rates for content areas. Students generally manifested lower passing rates for mathematics achievement than for science or social studies and passing rates were somewhat higher in the spring tenm. In addition, the passing rates of cambodian students were generally higher than those of the Hispanic group, except in spring mathematics courses.

Generally speaking, the criterion $\mathrm{i}_{\mathrm{a}}$ this area was achieved.

TARLE 15

Mumber of Program Students Attending courses and Percent Passing Teacher-Made Examinations in Content=Āea Subjects (Fāly)

| Content-Area | All Students |  |  |  | Totā 1 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Grade 9 |  | Grade in |  |  |  |
|  | M | Passing | M | Passing | N | Pássing |
| Mathematics | 72 | 69.4 | 48 | 83.3 | 120 | 75.0 |
| Science | 27 | 81.9 | 35 | 88.6 | 57 | 85.9 |
| Social Studies | 58 | 81.1 | 35 | 97.1 | 9.3 | 87.1 |

## Hispanic students

| Mathematics | 53 | $64 . ?$ | 10 | 70.0 | 63 | 65.1 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Sciencé | 11 | $81 . \overline{8}$ | $\overline{8}$ | 62.5 | 19 | 73.7 |
| Social studiés | 49 | $77 . \overline{6}$ | 8 | 87.5 | 57 | 78.9 |

## Cambodian students

| Māthemàtics | 19 | $\overline{8} \overline{4} . \overline{2}$ | 38 | 86.8 | 57 | 86.0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Science | 11 | 81.8 | 27 | 96. ${ }^{\text {a }}$ | 38 | 92.1 |
| Social Studies | 9 | $10 n$ | 27 | $10 n$ | 36 | 100 |
|  and "other:" science courses include general science, biology, and "other." Social studies courses include worlidglobal history: and "other." |  |  |  |  |  |  |
| ${ }^{\text {b }}$ Cambodian students receive content-area instruction in English with translation by, and instructional assistancé from; two Khmerespeaking paraprofessionais. |  |  |  |  |  |  |

TARLE $1 \bar{h}$

Number of Program Students Attending Courses and Percent Passing Teecher-Made Exaninations in rontent-Areá Subjects ${ }^{\text {a }}$ (Spring)


[^4]LANGIIAGE STUDIES
Objectives for achievement in native lànguage studies were specified för Cambodian students only. This objective was for attainment of a $\overline{7}$ percent passing rate in this àrea of study. No dāta on nātive lànguage achievement for cambodian students were reported, since staffing limitations precluded providing chasses in the khmer language. Table 17 presents passsing rátés fôr hispanic students in lánguage studies. These students manifested passing rates of $9 \overline{5}$ percent and 91 percent for fall and spring; réspectively.

TÁBLE 17


|  | Grade 9 |  | Girade 10 |  | Tơal |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $N$ | Passing | N | Passing | N | Passing |
| Fall | 56 | 96 | 12 | 92 | 68 | 96 |
| Spring | 35 | 89 | 9 | 100 | 44 | 91 |

## ATTENDANCE

Although there wefe no program objectives pertaining to the attendance of program students, information on program attendance was provided. Table 18 presents program attendance rates by grade and Table 19 compares program attendance to that of the general school population. The attendance rate at Theodore Roosevelt hign School averaged 72.3 percent, while program students averaged am attendance rate of 86 percent. The zetest was used to examine the difference in attendance rates of program students and the general school population. A rescit (z value) sufficiently làrge to attain statistical significance indicates that the program attendance rate is not based on a representat $\begin{gathered}\text { ve sample of the school population. }\end{gathered}$ i.e., that the two attendance rates are significantly different. As this difference in attendance rates is highly statistically significant, it may be concluded that program studenis attended school more regularly than did the general school population:

TABLE 18
Attendance Pércentages of Program Students

| Gràde | Number of Students | Meã Percentage | Stāndard Deviation |
| :---: | :---: | :---: | :---: |
| 9 | 66 | 80.45 | 22.37 |
| 10 | 47 | 93.81 | 9.54 |
| totál | 113 | 86.01 | $19 . \overline{27}$ |

Significance of the $\overline{\text { Difference }} \overline{\text { Retween the }}$ Attendance Percentage of Program Students and the Attendance Percentage of the School

| Number of Students | School Registér | Program Attenđance | School <br> Attendàncē <br> Rāte | $0^{\text {a }}$ | $2^{\text {a }}$ | Significance |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 113 | 3221 | 86.01 | $72.3 n$ | 27.70 | 3.25 | -nnol |

${ }^{\text {a }}$ The z-test fomula is:

 residual of $p$ and nathe number of program students.

## VII. CONCLISSIONS AND RECOMPENDATIOWS

The 1982-83 evaluation of Project CHASP revealed that the ōjectives were followed as stated in the proposal, and modified wit pproval from Title VII where necesssary. The infomation provided for the évaluàtion pemitted a clear understanding of the project's accomplishments and limitations ás presently functioning. All documents reviewed by the evaluation $\bar{t} e \bar{a}$ were compléte, up-tō-date, and consistent with projected objectives and timélines.

Both actual project stāf àd other personmel dealing in some way with the bilingual program exhibited satisfaction and dedication tō thé students and program philosophy and goals. Staff members were con tantly involved wish target students and with other personnel above and heyond their ássigned tasks. There appeared to be a sense of efficacy and cohesiveness between and among the various members of project CHASP. Án openness pereated the evaluation visits and personnel actively shared insights, offered constructive criticism. and analyzed their own roles and effectiveness in tems of the bilingual students. All personnel were cooperative with evaluation activities which tended to discupt the ésual flow of interaction-

The problems encountered within Project CHASP have been acdressed in each individual section of this report. However, the major obstacie in the smooth operation of Project CHASP remàins the unavallability of ćredentialed Cambudan personnel. Secondly, and related to the first óbstaclé, is a paucity of nátive language materials in khere finally, the Cambodian paraprofessionals are extremely óverextended in tens of
their roles. They translate materials; stand in as native language interpreters in monolingual ciesssooms; develop curriculum materials; and conduct general çlērical work. Each of these rales is a fuli=time endeavor.

With these observations in mind, the evaluation team submits the following recommendations:

1) The administration should analyze the need for creating one remedial biling̣adil mathematics class to provide individualization to Enos LEP students with difficulties in following the regular bilingual math curriculum offered by the program e
z) The program and administration staff should contact the special Education Division of New York City Pubic Schools for technical assistance in diagnosing and placing those LEP students win appear to be in need of special education services.
2) An active search should be conducted to identify the cañodian personnel necessary for teaching and developing khat er materials for the Cambodian component of Project CHASP. There is also need for a Mimerspearing counselor in order to facilitate commination for Cambodian LEP students. Presently, these students are advised by Spandsn/Engitshspeaking counselors who are extrethely helpful and sensitive to their needs.
it is recommended that the administration and project staff announce the vacancies in the bilingual Job Bank located at Hunter College Bi= lingua Education Mültifunctionāl Support Center; the Nátonàl Clearingnoise for Bilingual Education, and native language ventcies such as
newstéters; commity newspapers; etc. In the meantime; pernaps àrangements could de made fō à teaporary pér diem iócense in a related area fō à native Khmer speaker. In ddition, to strengthen che Cambodian component on an interim basis, support servicés should be provided by à native speāker until such time às the students achieve fluency in Englisn.

Program leadershio should also analyze the role the paraprofessionals in general, with a particular focus on that of the $\bar{C} a m b o d i a n$ paraprofessionals who appeár to sérve many roles simaltaneously due to the shortage of Cambodian professional stáff. Prioritization of their rólés may résult in more éffective sérvices fór progran students.
VIII. APPENDICES

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Professional and Paraprofessional staff haracheristirs


| tunction(s) | 111 im to bach function | Mase Appt: <br> (ii) <br> function | Emactlina (deprees) | Certification | Itreacls | lutal <br> 〔xipinefleñice in Education | \|xipiritilit: <br> Bilimual | 1amianiti: 1.9.1. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
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| Sidasish leicher Mil: Miti Peichier | . 6 | $\frac{9 / 8 i}{2 / 103}$ | İ.1. Spanish | $\frac{\mathrm{Hic}}{\mathrm{HYs}}$ | Span, M.I.S. | 2 yens | 2 yeari | nแw |
| 1,3,1, leather | 1.71 | 9716 | in:A. Irimin M, . . Y.s.L. | $\begin{aligned} & \text { MYC } \\ & \text { HYS } \end{aligned}$ | trench Di.n.s: E.s.1. n.lls. | 13 penci | none | 1 \%ari |
| Kii. Molit lagcher | 1.0 | 9718 | B.A. M, M, Math | NYC | Bil: Math IV.H.S. | 5 years | 5 years | milit |
| 1.i.i, leacher t.a.1. Condinator | $\begin{aligned} & \text { R } \\ & \hline 8 \end{aligned}$ | $\frac{9176}{9 / 18 i^{2}}$ | $\begin{aligned} & \text { B.A. Fnylisn } \\ & \text { M.A. A.S.L. } \end{aligned}$ | HiC | 1.S.I. 0.11 .5. | 1 years | none | 1 pears |
| 1.i.1: learther Prim. Conorinator | $\begin{aligned} & \bar{E} \\ & \end{aligned}$ | $\begin{aligned} & 372 \\ & 2782 \\ & 2782 \end{aligned}$ | $\begin{aligned} & B_{B}, \bar{A}_{2} ; \bar{M}_{1}, A_{1} \text { Soc. } \\ & \text { Studié } \end{aligned}$ | $\begin{aligned} & \text { MYC } \\ & \text { HYS } \end{aligned}$ |  | 15 yedrs | none | 1 MiI |
| \| 1.5.1. Pracher | 1.0 | $9 / 13$ | $\begin{aligned} & \text { B.A., M, A. } \\ & \text { E.S.1. } \end{aligned}$ | NYC | 1.5.1 0.4 .5 | In mars | none | III yuari |
| Mi. i. A, tuder <br> 1.1.: Peathes | . 6 | 9770 |  | $\frac{\text { Mir }}{\text { Mis }}$ | Mali, Millic: | I] years | 3 mas: | it prors |
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APPTMOLA A

| function(s) | 8 Tife to bich Function | Dute kppt. <br> to tich <br> function | Educition (degrees) | Certific | Lleancets) | rotal Experience in Educition | Expertence: Blinguil | Experlence: <br> E.S.L. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| E.S.L, Teuther | 1.0 | 9/80 | B.A, M, A, C,S.L. | HiC | E.S.L, M.H.S. | 3 years | none | 3 years |
| E;S:S: Teuther | 1:0 | 975 |  | $\begin{aligned} & \text { MYC } \\ & \text { MYS } \end{aligned}$ | French D.H.S. E.S.L. D.H.S. | 25 yers | none | 8 years |
| P. C.od, tê̈cherif coordinator | .88 | 9780 | B;A; $\mathrm{Ma}_{i} \mathrm{~A}_{i}$ SoC: St, 3OCics dainin. | $\begin{aligned} & \text { MYG } \\ & \text { MYS } \end{aligned}$ |  | git rears | 82 yeirs | abne |
| 「iil. Soc, stüdes | 1.0 | 9714 | BiA: , Miti SoC: St. | $\begin{aligned} & \text { WYY } \\ & \text { HYS } \end{aligned}$ | soc: st; 0ill:S; B11.SOC.St, OHM:S | 9 years | 8 years | 1 yepr |
| $\begin{aligned} & \text { Min: Scilence } \\ & \text { iexher } \end{aligned}$ | 1.0 | 9175 | B. A, M. . A Sticience | WYC <br> Hiss | Gen Sci: A -io U.i.i.S. | 8 years | 8 years | none |
| Spanish teacher Firench leacher | . 6 | 9/69 | $\bar{C} \cdot \bar{A}, \bar{H}, \bar{M}, \bar{S}, \overline{S o n} /$ <br> Fr. +30 Crs | Tiic | span, O.H.S. Prench 0.H.S. | 14 years | 9 yers | rone |
| Bid. Soc, Stüdes Teacher | 1.0 | 9718 | BiA, M, Mi: SoC: studies | $\begin{aligned} & \text { HYC } \\ & \text { HYS } \end{aligned}$ | Bili. Soci St. D, H,S: | 1 yenrs | 5 years | none |
| G.E.Di, Teucher Sponish Teicher | . 2 | 4/83 | D.A. Span/ESL | NYC | E.S.t: I.PA, | 3 yeer | 2 yeir | none |
| Chasp IItIE UII iflimual Paraporefessional | $1: 0$ | 4182 | 24 credtis |  |  | 12 yers | 19 yerr | none |
| CHASP IIILE VII Bilimual Piriprofessional | 1,0 | $10 / 82$ | 10 credits |  |  | 17 yebt | 1 yedr | nowe |

APTIMIX Á

|  | , | $\begin{aligned} & \text { Ifee } \\ & 0 \text { rath } \end{aligned}$ | nite Appt. to fach runction | iducation (deprees) | Certification | Licenee(s) | intal <br> Pxperlence <br> in racication- | inperience: <br> Pillmos | Pxperlenc: <br> T.S.L. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1;0 | 9/75 | 30 crealts |  |  | 9 years | 9 years | none |
|  | Tisit: Pari: professional | 1.0 | 77R2 | fin credits |  |  | 6 years | 5 years | I year |
|  | C.C.L. Parde profersyinal | 1.1 | 9/7\% | It creilts |  |  | P. years | 5 yeirs | 1 year |
| $\begin{aligned} & \frac{1}{n} \\ & \omega \\ & 1 \end{aligned}$ | clusp tint yil Pilinguid Paraprofessional | 1:0 | 9:75 | 6in credits |  |  | 14 years | $p$ years | mmip |
|  | Title vil Vie name | 1.0 | 9/81 | 6 c crellts |  |  | 7 yedrs | 3 years | none |
|  | ciase titt Yil Tamily Assistant | 1.0 | 9715 | P.A. Catication |  |  | $\bar{n}$ yeers | ipears | none |
|  | risit. Parb. professional | 1.0 | $9 / 74$ | $x$ creofts |  |  | n yeprs | none | 9 ypars |
|  | 「.S.L, Pariprofessional | 1.0 | 9/74 | 60 crelits |  |  | 9 y yers | none | $; i^{n} \text { years }$ |
|  | F.S.i. Pardprofessional | 1.0 | 9781 | 60 crealts |  |  | $3 \text { yeires }$ | none | 2 ypars |
|  | Sisti Purd. | 1.0 | j/91 | 12 creflits |  |  | 19 yedrs | In yedrs | $2 \text { yerrs }$ |

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[^5]Support services offered to Progrom Stovents (foll and Spring).

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APPETMIX C
Stef deedopmen activities in school

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| Worksmops | Intoochinase langurge and culture | Farē $\operatorname{lgn}$ Limuingal Bilimuil Department | Ms; susion comeforad; Loulse | Junt; 1983 |  |  | 1 |
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Apprioli C
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| Professional | Fordmm liversity | Reading Liproverent | 3 crs/once o met |  |  | 1 |
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[^0]:    . Reproductions supplied by EDRS are the best that can be made from the original document.

[^1]:    ${ }^{\text {ditource: Wigh School Personnel anventory for Bjlingual/E.S.L. Programs. }}$ 1093. Division of High Sehooly. © York City Public Schools.

[^2]:    Board of Education of the City of New York, Divisicn of Hign Schools, 1978.

[^3]:    Fihese data were generated by matching the progran's data set against the city-wide test data; matching on name; school. and student indentification muber: The match rate was probably reduced by clerical and keypunch errors, as well as absences.

[^4]:    ${ }^{\text {a Mathematićs courses include remedial math, general math, preālgebra, }}$ and "ōther." sciénce coursés inciude general sciencé, biology. and "óther." Social studies courses include worid geography/culture, world/global history, and "other."
    ${ }^{\text {b Camhodian students receive content-area instruction in Engifish with }}$ translation by and instructional assistance from; two Khmer-speaking paraprofessionals.

[^5]:    Tsw

