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ABS: ACT
The results of nearly 2 years of inquiry into tha effectiveness of Catholic schools are summarized. Using a design combining field and survey research, the study included: interviews with staff, students, and parents; observations of classroon and general school life; and extensive documentation on suven Catholic schools across the nation. An introduction presents brief review of prior research on effective schools, particularly the research of James Coleman and Andrew Greeley. Sections 1-5 focus on Catholic secondary schools, including their character (section 1), curriculum and academic organization (section 2), the character of instruction (section 3), and faculty roles and concerns (section 4). Baged on an analysis of data from mational survey on american secondary schools, "High School and Beyond," section 5 discusses: major differences among Catholic schools as well as how these schools compare as a group to public schools; institutional factors - secondary schools on student achievoment, post-secondary educational plans, and affective and social developmert; and findings Erom resaarch on the effects of Catholic school education. Although the study focuses on secondary schools, some aftention is given to elementary schools in section 6. Sections 7 and 8 deal with finance and governance issues facing Catholic schools. Using sumary " statements and numerous tables, findings are highlighted throughout the report. (LB)


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# EFFECTIVE <br> CATHOLIC SCHOOLS: AN EXPLORATION 

With a Special Focus on
Catbolic Secondary Scbools
A Repont Pisulatied by
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Sponsared by the deparment of Cotof Adivindterntors of Capoitr EIMcation (CACE) of the
Nantonal Catbolic Ethecaitonal Accociation (NCEA)

TADE of CONTENTS


## ABOUT THE AUTHORS

ANTHONY S. BRYK is Assoctate Professor at the Harvard Gradume Schiol of Education and.a Director of the Huron Institute, a non-profit firm of applied research, evaluation, and policy analyats. In addation to teetching courses in quanthative research methodology, Mr. Bryth has a research intenest in the design and conduct of applied social sclence. For the past 10 §ears he has been engaged in a wide range of program evaluations and' poiticy reseanch on federal interventions in public education.

Mr. Bryk coordinated the conceptualization and destign of this research. He was a major contributor to all sections.

PETER B. HOLAND is co-investigzoor for this research and is currendy completing his doctoral studies an the Harvard Gradume School of Educmaton. A teacher and princtpal in Catholic secondrry schools in Maryland for 15 years, Mrr. Holland has also coniducted field resedrch wth A Seudy of $h$ High Schools, a project under the. direction of Dr. Theodore Stzer. His reseanch interesss focus on school effectiveness and family choice in education.

Mr. Holland coordinzwed and a. . ted the field research compythent of this study. He was the primary contr-. or to all sections excepr Section 5 .

VALERIE E. LEE, an advanced doctoral candidstex at the Harvard Gradustie School of Education; is Program Coordintior for the Radclffe Summer Program in Solence. She has raught in independent schools in the United Setaes and abroad. She is interested in research on sex differerioes in mathematics achtevement and on minorty students' access to higher educiadon

Ms. Lee was responsible for the High School and Beyond analyses. She collaborated on the wrting of iection 5.

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he Department of Chief Administrators of Catholic Education (CACE) of the National Catholic Educational Association (NCEA) established a National Center for Research in Total Catholic Education in 1978. It was to contract whth organizations and individuals to perform research on topics in Catholic education: The Center was seen as a CACE service to its members. because many are not able to support research due to staff and funding limitations. It is suppofted by contributions from dioceses, archdioceses, religlous congregations and other interested parties who purchase certificames of interest in the Center. It is governed by a Board of Directo"s elected from among those purchasing ceruificates.

- In earty 1982, the Center Board met to develop à request for propasal. They decided to solicit proposals for "A Study of Effective Catholic Sctrools." This was to build upon the.studies of James Coleman and colleagués and Andrew Greeley.

In brief, Coleman and colleagues found that students in, Catholic schools have higher achievement scores and a greater opportunity to participate in the common school ideal than their public school counterparts. Greeley reported the benefits of Catholic education are strongest among disadvanigged minority youth.

Although that good-news was and condinues to be encouraging, the research indicated how litile is known about how schools become effective. In an effort to remedy this, the Research Center, acting through its Board, awarded a contract to The Huron Insthute of Cambridge, Massachuseus. The profect was to look carefully at how Catholic schools are organized, the kinds of students they etroll, and the policies and procedures thas characterize their operation.

The principal in estigatort for the project were:

Anthony S. Bryk
Associate Professor
Harvard Graduate School of Educadon
Senior Research Associate
Huron Institute

Peter B. Molland
Advanced Doctoral Condidste in ${ }^{\text {- }}$
Administration, Plannipg, and Social Policy
Harvand University

- This Execuntie Slommary inports on that investigation. It brings to fruition the dream of those who establish 4 che Center in 1978. Furchermore, it is an appropriate way to commemorate the centenary of the Third Plenary Councl of Baltimore. As it, the American Bishops decreed, " $\because$ : , that near eivery,chminth a parish sctrool . . . is to be builk and maintained. ...'

On behalf of Cacholic education in general and NCEA in particular, I want to thank those who cooperated wth, supported, and conducted this research. The acknowledgments at the conclugion of thts geport name three who have bieen of particular assistance..

A spectal word of apprectation is due Tony Bryk and Peter Holland. They are to be commended for their cooperation, senstivity, and integrity in bringing this project to completion. This Exacuative Suommary is one of two documents prepared by them on the findings. The other is a technical report available through the NCEA Publication

Sales Office. Though the profect was supported by the CACF Research Center, the opipings and judgments the investigators express in these dacuments doj nor necessafily refiect thase of the Center membership.
It is the hope of the Research Center members that this project is the first of mariy. All will have as their uldimate purpose the invtation of the Scriptures to increase in. wtsdom before God In doing this, Catholic education and Catholic educators strive to be mone fatthful to the viston of, jesus and their mission. This mission is summartzed in the words of Pope John II in his' 1979 talk to young people itt Madison Square Garden in New York:

1 would thee to tell you why the church connsiders it so important and expends so muchenergy in order to prowide you and millions of other young people whin a Catholic education. The answer can be summarized ir one word, in one person, Jesus Christ. The church wanss to communicate Chrisito you. This is, what education' is all allout, this is the meaning of He: tọ lanow Christ:

- Bruno V. Manno

Director; Resertith and In-Service Programs
Staff to CACE Research Center Board
National Catholic Educational Association (NCEA)
Washington, D.C.

- The Feast of the Resarrection, 1984


## INTRODUĆTION

his document summarizes the resulds of almost two years of inguity into the effectiveness of Catholic schools. Athough it focuses on Catholic secondary schools, some attention is given to elementary schools, particularly as they interact with their secondary school counterparts. It is a story of much goodness but also of some - tensions and two deep-seated problems.

## PRIOR RESEARCH ON EFFECITVZ SCHOOLS: A BRIEF REVIEW

Most reviews of school effects Itherature tegin with Equality of Educational Oppor. nurity, by James Colemap and others, puplished in 1966 . It incroduced what came to be called "input/output studies" of scyool effectiveness. It was one of the lirst nationwide surveys to measure both edu cational inputs, consising of school, family, and student characteristics, and outputs, concelved primarily as academic achievement measured on standardized tests. This research and much of the work emerging from it developed from human captial theory. It suggests an investment in education can promote social reform. The focus on school resources such as stati/child ratio, salary schedules, and number of books in the library had a distinctly economic bent as did the choice of the input/outpur model.

Educators were disappoined in the results of this early research. It suggested school achievement was determined mainly by family background rather than schoo' characterssics. While these findings were subject to considerable debate, further analyses falled to yleld substantally different conclusjons. ${ }^{1}$ One impiortaint and eniduring consequence of Coleman's woik, however, was a redefinition of the central educational issue: achieving equality in outcomes assumed priority over equal school inpuits. Research gradually began to shift from scrutiny of educational resources toward the outcomes of education and the factors believed to influence those outcomes.

From the point of view of most professional educators, more resources are by defintion highly desirable. However, resources are really only means for addreasing the primary educational concerns: curriculum, the amount and quality of instruction, selection and maintenance of a talented and commited faculty, providing a positive climate to shape student life, and overall institutional leadership. As more recent educational research began to focus on these areas, certain attributes associatgd with effective public schools emerged. Further, these findings appear to be refaiyely consistent across diverse contexts and research methods.

[^1]Ronald Edmonds' research or Effectiex Sctooks for de Ubtran Pdor, athi the work by Michael Rutper and ochers on a sample of secondary schools in London serving: low-income students, are two of the most widely ched examples of this new stream of inquiry. ${ }^{2}$ Edmonds suggests the key characteristics of successful schools are strong administradve léadership, an orderly school climate, teachers' high expecoptions, emphasis on basic skills, and frequent evaluation of students' progress. Edrijonds embeds these findings within a more general argument: the faifare of students to learn is due primarily to the school, and schools nether could nor sta; ald explain away failure by referring to cultural or social class deficit.

Rutter and others reach a similar conclusion. They argue that a donstellation of factors-the amount of time spent on instruction, the presence of incentiv sand . rewards for achievement, the ambiance of the classroom and school, as. . the opportunities for the students to exercise responsibility-creane a paricular ethos, or set of values, attudes, and behavior, that characterizes effective schools.

It is only within the last three years that research on the effectiveness of Catholic schools appeared, James G. Cibulka and others reported in 1982 on an examination of Inner-City Private Elementary Sobooks, most of which were Catholic.3 They con-, clude the effeativeness of these schools derives from strong institutional leadershtp.' the.shared values of the staff about the purposes of the school, a safe and ordenty environment, and clarity of mission and purpose. Cibulka er al gathered onfy 1 imitaed data on student achievement, basing their conclusions primarily on parents' reports abowt school quality and thelr reasons for choosing a Catholic school.

Until publication of the book by Andrew Greeley, Nimorty Sundens in Cantolic. Scbook, and the companion volume by James Coleman, Thomas Hoffer, and Sally Kilgore, Pubilic and Prtivate fchooks, there was virtually no litefature on the effects of Catholic secondary schools. ${ }^{4}$ For this reason, their research proved both seminal and controversial.

Coleman ef al. conclude that Catholic schools produce higher cognidive achievement thart public schools; that they are less racially segregated; and that the variation across students in paterns of achievement is much lexs-dependent upon fapmily: background. Greeley's results are even more powerful in some ways. Analyaing the: same dia base as Coleman it al., Greeley chalms large differences in the achlevement of minorty studenss in Catholic, and in public schools. Further, these differences are greatest for the most disadvantaged youth-students from poor familles, where parental edueation is limited, who are enrolled in a general program.

While Coleman of al and Greeley report extensively on the effectiveness of Catholic secondary schools as compared to their public school counterparts, their results provide limited information about how these higher achievement levels are produced. Coteman et al. suggest that school polictes on order and discipline, and features of school cimate such as the amount of homework and alsenteeism, play a major role. Greeley added to this list of explanatory factors the nature of the governance arrangement for the school and the quality of instruqion as reported by
$\rightarrow$

[^2]students. Since a comparison of public and privete schools was the primary focus of hoth studies, the educational variables examined were primarily those that differed hetween the two types of schools.

## NMSOR THLS RESEARCHO

Despite the increasing,volume of research on effective schools and the numerous recent reports on secbndary school reform, Catholic schools remain virtually unexamined. Thus, our central research purpose was to identify the factors associated whth the effectiveness of these schools through a broad exploration of their academic and social organization.

This raises a question: by what criteria should Catholic schools be judged? Studen: achievement has become the yardstick used by most researchersin evaluating the effectiveness of public schools. While we believe it important to look at suudent achievement and its causes, we also maincain ihis is not the only important aspect of schooling. School staff and parents tend to assess secordary schools in terms of a broad ser of criterta thaa include onganizational, social, and emotional objectives. For Catholic schools, one would have to add to this list a greater emphasts on value orientation and personal development. This represents a broader conception of effectiveness than we typically see in research on school effects."
-In brief, our aim has been to seek out the distinctive features of good Catholic schools. What matuers about these schools both in terms of how a soctal sciendis . might view them and as the individuals closest to schools-rieachers, students, and parents-perceive them? What makes them work? Can these features Be preserved where they exist? Can they bu replicated, transported elsewhere- to other Cauholic schools, to any school?

## SREITTER OF OLKINQIIKY

Several concerns pointed us in the direction of a field research approach. Firks, it was obvious that some aspects of selool effectiveness that interested us would be difficult-some would argue impossible-to assess by quanditative means. Interviews and classroom observations might yleld more productive.data:

- Second, as our therature revtew indicates, latle is known about the subject of our inquiry. This uncertainty complicates the design of a quantiantve study which requires explicir spectification of the research questions at the ousset. There is litile opportunity for mid-course correction simould you discover you asked the wrong questions- and there was a more than eqven chance we would make such misuakes. Here, too, field research seemed advantageous because of ths flexibilty. As the prefiminary data analysis proceeded, subsequent jnvestigation,could be redirected.
Third, we fudged it important that the sudy design allow ample opportupities for the subjects of our research-parents, students, and teachers in Catholic schoolsto influence the content of that research. If this work was to have meaning fog; educators and parents, it should consider the aspects of their sctiools they reqard as salient. We sought to grouind our research on schiool effectiveness both in the existing educational research literature and in the experience of those most familiar with these sctiools.

[^3]Nevertheless, exclustive reliance on a qualitative approach entails substantial problems. Some questions of interest to us could best be examined by traditional quannitative meins. Identifying differing patterns of schuol achievement and the possible causes of these patterns falls in chis realm. Further, there are some simple descriptive questions that survey research is ideally designed to answer: how large are Catholic schools, what percentage of students are enrolled in acadegnic programs, how many mathemarics courses do they take?

In addition, certain aspecis of field research troubled us. How does one know the descriptive reports are valid and free of bias? Even if they are factual accounts, to what extent can we, or should we, generalize beyond this set of schools? A survey daa base: as a companion to a set of case studles could strengthen both the validity of the individual accounss and the ability to generalize overall field research findings.

Thus, we setted on a study design combining field and survey research. This technique is employed effectively by Edmonds and Rutter et al. Recent wridings on social research methods generally support the efficacy of a multi-method approach.

## Field Rescearch

The field research sample consisis of seven Catholic secondary schools selected from 5 archdioceses and 1 diocese: Boston, Baltimóre, Cleveland, Louisville, San Antonio, and Los Angeles. In terms of Catholic school enrollment, each of these is among the twenty langest dioceses in the United Srates. As a set, they provide good geographic coverage of the areas whth major concentrations of Catholic school.

We asked the superintendent of schools in each of these dioceses to nominame some "good schools that we might find interesting to visit." We described in some detail our broad definition of effective schools. Since we were interested in schools from diffierent types of communides (urban, rural, and suburban) and wth different mechanisms for school-governance (religious order, diocasan, and parish or interparish), we asked each superintendent for nominations in each category. The superintendenss suggested a yaried group of schools, including some recommended for reasons ouber than high achtevemen. The superintendents also provided us whith descriptive data about each school. This inctuded tution levels, percentage of graduates attending college, academic organizaton, wheiber coed or slngleseer, school size, and estmates of the racial and social class composition of the student body.

In ctioosing the finaliset of schools, we sought maximum divenfliy sons to captire the tange of comtemporary Cathollc educiaton in Amertca: poor schools and afflugnt schools; schools varying in size from 130 to over 1500; coed and single-sex schools; all-white, rgcially mixed, and an all-blatk school; schools where student enrollment is almost exclusively Catholic and schools where over forty-five percent are nonCatholic. We rejected some schools because they had a reputation as being acadern ically elite whthtn the syscem: we wanted good setrouls; but noi fust the best schools. A brief description of each school in the final secondary, sample folions. As agreed beforeband, their actual nanes are not used to maintain confidentiality.
${ }^{2}$ 'S. Richard's is a coeducational diocesan high school in a milddle-class suburb ai boston. Its student body of 900 is almosi exclusively white. The cirriculum $x$ academic and college-preparatory, Approximstely 80 percent of the graduites attere-: college each year.

- S. Arances' High school is a private Inner-ctry giflis' schocl in Batimore. Trcurriculum emphastzes college preparation and entry-level employnisle sldths. Itstudent body of 540 is about one quarter black and comes largely firm wording-ches families. exclusively whitie and middle class. Founded in 1864, St. Edtward's has a' collegepreparatory program that includes 12 advanced placement courses and a acollege

- Sf. Peter's is a coeducational inter-parish high school located in inner-cty San - S. Peter's is a coeducational inter-parish high school located in inner-ctiy San
Anspnip. Its population of 365 students from lower-income and working-class fapailies is racially balanced, composed of almost equal numbers of Hispanics, blacks, and whites. St. Peter's features, hoth an academic and a general curriculum. Its tulgion of $\$ 900$ is the lowest in our sample.
- Bishop O'Bóyle High School is located in suburban, semi-rural Freterick Coluc:: Maryland. Originially founded as a partsh high school in 1829, the school baca: private in 1972. The student body of 130 is upper middle class and 90 percent white, with 95 percent of the graduates attending college. The tution of $\$ 1950$ is the highesty in our sample.

The fleld work was organized into two parts, conducted in the fall of 1982 and the "spring of 1983. A team of two visited each school twice for a total of 10 to 12 persion
days. During the first round of visits, the team interviewed saff, sudents, and parents, spring of 1983 . A team of two visited each school twice for a total of 10 to 12 persion
days. During the first round of visits, the team interviewed sraff, sudents, and parents; observed classroom and geileral school life, and collected extensive documentation on each school. These activities-addressed concerns within six broad areas: the on each school. These actividies addressed .concerns within six broad areas: ge
school's philosbphy and mission, curriculum and academic structure, school organization and staffing; sudent life within the school, finance and governance, and the ACatholic character of,the school.

We conceived the initiat visits in broad terms, peliberately exploring a larger
We conctived the initiat visits in broad terms, pheliberately exploring a larger
number of issues than we would eventually treat wine final report. The agenda was straped by the extsting research onpeffective schools, by our personal experience with Cathotic schiools, and by our previous professional endeavors in a variety of other contexts. We left ample opportunity at this point for those we were stutying to influence our agenda. The phimary purpose of thls phase of our, research was to develop a field-based set of hypotheses about the features of goiod Catholic schools. - We looked for the vistble signs, bur we were also/attentive to the unspoken and sometimes unrecognized aspectis-the values that àre shared, the conflicts that are sometimes hidden.

While an interpretative framework of this sort is useful as ideas are developing, it can be blinding if left unchecked by empirical evidence. The search for the latuer was the matin purpose of the second part of the fleld research and an auxiliary function of the survey research described below.

While the first part of the field research was exploratory; the second was highly structured. We returned to the schools in the spring of 1983 with 18 propositions embedded in six general themes: These themes provide the topical organization for the sections that follow. We developed a.detailed dati collection plan consisting of thematic and structured interviews, questionnaires, a classroom observation pro-

- . X. Convelius' is a coeducational diocesan high school serving low-income working-class families in urban Clevelend. Nearly 1000 students are spread over three campuses, requiring well-planned transportation schedules for students and teachers. Black and Hispunic students comprise approximately one quanter of the enrollment. Aboiut 65 percent of the graduates attend college. S. Comelius' curriculum includes academic, vgcational, business, and special education programs.
- S. Madeline's Higb School serves an dmost exclusively black middle class student body of 660 in Los Angeles. Ninety-two.percent of the graduates antend college. Founded in 1889, St. Madeline's is a private, -urban school for girls.
- S. Eduard's High School, the largest school in our sample, enrolls 1500 stivdents. A private boys' school 'in suburban Louisville, its student body is almost exclusively white and middle class. Founded in 1864, St. Edward's has a coilege-

tocol, and procedures for document review. Every item in this data collection effort related to a proposition or set of propositions.

In the course of this work, we conducted approximately 350 interviews with principals, teachers, and oher school staff; we observed in over 160 classrooms; we collected almost 2000 questionnaires from students, teachers, and parents. Taken together, this material provides an extensive empirical basis for our field research:

Ideally, one might use case study results to design a follow-up quantitative inquiry in. a larger set of randomly selected schools. This provides a rigorous test of the tenability of the general propositions formed in the field research and an opportunty to address those issues for which case study fesearch is not well-sutted. While we lacked the resources to undertake a survey of our own design, we were fortunate that a current large-scale national data collection effort by the National Center for Education Statistics (NCES), High School and Beyond (HSGB), included a random sample of Catholic secondary schools and contained data on a large number of questions of interest to us.

We drew the Carholic school sample from the HSGB tapes: 84 schools and 5495 studenas. We selected a large numbier of the questionnaire items for data analysis. Some of these were useful as they stood. Ohers were merged into composite factors. This process of constructing variquses was guided by the research on school effects and ty the propositions developed from the first part of the field research. The HSGB file contains extensive data on student and family background; school characteristics such as social composition, staffing, resources, and climate; students' atutucles and behavior as they relate to various aspects of schuoling; and a broad array of outcome measures, including academic achievement, educational aspirations, and affective and social development. It represents our primary information source for Section 5 of this report and prowides important supporting evidence for the other sections as well.

## 

Each of the following sections parallels a section in the technical report. Using summary statements set in italics, we highlight our findings. We provide, some elaboration on each statement and offer a glimpse of the empirical evidence that supports it.

Producing this manuscript has been a difficult task. We try to sketch in a few pages the complex nature of a set of social institutions and the characteristics of those who shape them. In doing this we identify common themes and unique features that contribute to the making of an effective school. We include excerpts of descriptive accounts from some schools in order to provide a brief look inside thase schools. Unfortunately, the summary nature of this document precludes more extenstive description. We incourage you to read the technical report.

Section 1
9 The Catholic Character of the Schoxols

17 Curriculum and Academic Organization
Section 3
. 26 The Character of Instruction

Secrion 4
32 Faculty Roles and Concerns
Section 5
39 Student Life

# THE CATHOLIC CHARACTER OF THe SCHOOLS 

# T <br> vious ways in which sch 

 specific religious activities such as liturgical services and a required religion curriculum. As we move beyond the visible features that mark a school as Catholic, it becomes necessary to examine the soctal and cultural fabric of the institution-the conflicts and the shared values, the explicit and the hidden. There are no simple procedures, however, for guiding this assessment. Thus, our objective remains modest: to describe certain-features central to the Catholic ctiaracter' of the schools F we visited, knowing that ours is at best a partial sketch of complex institutions.
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The religion curriculum in the schools we visited generally consisted of three required full-year courses, and a choice of two semester electives in the senior year. Although we found some variation across schools in course utles, topics covered, textbooks used, and teáching methods employed, there were a number of similarities among the programs. A description of a typical curriculumi follows.

Religion I: This course encourages students to examine and reflect on the meaning of their lives. In loolding at their rebationthip to the world, students are asked to consider the role that faith and belief in a personal God might play within this context. This objective is addressed through study of the Old Testament as the expression of a community's wonder about God. Sudents are encouraged to think about their roles within the Catholic Ghur hh, their parish community, and sociexy as a wholet.

- Religion II: This course might focus on the Christian person, with emphasis on the nature of our relationship to dmself, others, and God. The life of Jesus is discussed through examination of New Testament scriptures, and particularly the central theme of ghese scriprures, a call to self-reform. The course looks at some of the challenges teenagers face in living their faith: peer pressure, obedience versus freeciom, and sexuality. The course ends with a treatment of the sacraments and the liturgy of the Church and their role within a vital contemporary Christian community.

Reltgion III: This course focuses on moral behavior and the ry ,onsibility for making moral decisions. Students reflea on their own motal values and compare them to a morality based on church teachings. Notions aboutsin in the world, and the - need for personal redemption and reconciliation, are examined in the context of the demands assoctated wth living a moral life. The formation and use of conscience is emphasized. The second phase of the course relates these principles to specific moral issues, both global (eg. nuclear disarmament) and personal (e.g. sexuality).

Senior-yespelectives in a typical religion cursiculum might alsto include: Cortstian Lffestyles, a stuly of marriage and other lifestyles; Belkef and Unbelief, an investigation
into the uldimate ontological questions; Contemponary Caubolic Fuids, an examination of the roots of Catholic faith, including tradition and heritage; The Meaniogg of

- Life. an inquiry into values that will guide students in their choice of a personal phitosophy; and Deatb and; Dying, an examination of the issues and concerns. surreunding the reality of death.
- The religion course sequence described above assumes thay faith is a developmental process. Full comprehension of the meaning of Christianity requires an understanding of one's humanity and the nature of belief. As the chairperson of the religion department at S. Edward's stated, such a course sequence has four objectives:
- to expose students to Jesus' teachings by exploring the New Testament;
- to help students develop an understanding of the process of adolescent growth and development;
- to lead students to see the development of faith as a parallel to human growth;
- to help students explore the value of prayer, worship, and the sacraments in their lives.
Two of the schools we visited had a much more traditional form of relighous instruction, placing heavy emphasis or, the notion of farth and catholic practice as received truth, and using didadic instructional techmiques. This is a marked contrast wth the other schools where Socratic teaching methods were commonly employed. Nevertheless, religlous instruction in even relatively conservative Catholic schools today differs substantially from that of only a decade earlier. It differs still more front the 1950s when the Baltimore Catechism was the organizing guide for all elementary and secondary religion courses.

In addition to changes in curriculum, Catholic schools have added some new elemenas to their religious activities since the 1950 s . In particular, we have witnessed an increase in retreat añ áposcotic sevice programs. Contemporary retreat programs in Catholic secondary schouls difer considerably from the earlier days of silent recollection. The central feature of these "days of recollection" in the 1950s was the sermons delivered by spectally traine d priests to several hundred studenss in the school chapel or auditortum. Most of the typical repreat day consisted of these talls, interspersed whth opportunides to go to confession and attend Mass, and with silent refiection.
'Current retreat programs typically involve group activties for freshmen and sophomores at an off-campus retreat center. Usually directed by a faculty member, the retreats might also involve a priest for the sacraments, and feature films, discusstons, and calks by students and faculty. The retreats provide opportunities for students to think about their relationships with their parents, friends, and God, and to share their concems and listen to othe in a relaxed atmosphere.

For the juniors and sentors, retreass may last three or four days and include several Ifaculty members. At one school we visited, a team of 14 persons-five faculty (one a priest), seven graduates, and two senior leaders-are regularly involved. Over the course of the year, 54 of the 80 faculty work inthe remeat program as recreat leaders, bus drivers, substitute teachers, and follow-up directors. This substantial faculty involvemerit reflects the importance atached to this activtiy whthin the tocal life of the sidiool.

Aprostolic service programs, sometimes called soctal action programs, consthute another major elemient in the religious activtiles of most Catholic highschools. These programs, which emerged in Catholic secondary schools in the-latelf 196 and early 1970s, represens the most tangible sign of the Catholic school's commitment to a fust social community. As a board member of one of the schools remarked, "A school
sthoukd not call itself Catholic if it doesn't have an apostolic service program."
The director of the program at S. Edward's spoke about his perspectives on student service programs.'
I believe in servioe. It's important for students to realize that the things they do make
a difference. We can heal people and make their lives beter. We can ralse the
awareness of others. Physical contact is vital for Christiantity. Some of our students
are shetrened from poverty and from peoiple of different rates. This program is
important because it makes them more aware. Work with the eiderly is particularly
eye-opening. The stidents [alsol see that underprivileged and handicapped kids can
be happy. They realize that the poor don't choose to be poor. This is a new.
understanding for most of them.

At Bishop O'Boyle High School, freshmen and sophomónes regularly visit local nursing homes to ralk with patients and perform small errands for them. The older studenas work in an inner-city soup kitchen. They assitx in preparing lunches and in distributing the food to the needy. Although the school is relatively close to the inner-city, most of the sudents had not seen the poverty, of the area undl they became involved with this program.
vudents, purents, and
faculty hate tariying concrepitions about the rebigions aboracter af Abe schenof. The ircialitional frameworte
that stroswes ont's ferwonal relationsintp reth a Suprame Being is in tenstion with a meore eciumpienical perspectile that empleasizess sochal mev/kunsthility and commennal relationshifis. Tbis
fowsion reflects a similar conflict withofin tha* Imardican cathoulic chutch.

We have already alluded to this iension in ourdiscussion of the different orientations of the religion curriculum wishin Catholic schools. Conceptions range from a relatively formal doctrinal approach, emphasizing the knowledge that all Catholics must possess, to a focus on developing individual conscience as the central component in fath development. While chese contrasting orientations are most obvious in the structure of the relighoh curriculum, they are also manifest in the content and organization of retreat programs, and in the relative emphasis given to apostolic service actituies.

This tension also \%ccurs berween parents and teachers. On a set of survey questions concierning the role of reltgion in their lives, parevis' responses tend to emphasize the vertical dimension of faith. They express a view of religion as primarly a relationship between God and themselves that provides the strength to succeed, offers sulace in moments of trala, and sets limits on personal behavior. Teachers, while also attesting to tind vertical dimension, were more likely to clatm that the hortzontal character of religion-the concern for social justice and caring about others-was equally important. They tend to experience religion as a liberating force that challenges them to soctal action.

We found similar differences between parens' and teachers' responses concerning religious behiavior. While approximately 75 percent of the parents and teachers report they regularly amend Sunday Mass, teachers were twice as likely as parents to be iffivolved in soctal service or netghborhood profects. Parents tend to apprectate the individual spirtuality in amich they were educated and to have less personal engagement than teachens wth the post-Vatican II emphasts on soctal responsibility.

Whe also asked students about the role of religion in their lives. Many of their responses were neutral or "no optnion," suggesting that while students have a broad knowledge of Catholicism in both ta horizontal and vertical dimensions, they have yet to internaltze efher aspect. Where studeniss offered an opinion, their answers tend to fall between those of their parents and their teachers. On the issue of soctal and commuinity activism, students were more postive than thelr parents but not as much as their teachers.

For us, these tensions suggest an institutional vitality. School, staff are actively

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"fore erfui integrating force writhen the life w he. What. 7edicherss, both layanded religions. protidic a sutphertire base for this awn amd condybute wh.vantially to the community life of the whom ed.
engaged in the struggle to seek after truth and create meaning, coherence, and value in the contemporary Catholic school. This requires identifying the essential Catholic values, and seeking to interpret and preserve them in an increasingly complex and changing world.

Five of the schools we visited had chaplains on their staff. These ministers served a variety of functions, celebrating liturgies, visiting students and parents in hospitals, praying with families who had lost a member through death, hearing confessions, serving on repeat teams, and counselling students.

Some chaplains extend their roles in a variety of ways. At St. Cornelius' High School, the chaplain had organized a mime troupe to act out the gospel at a school Mass as it was read by one of the students. In our interview, he also spoke of his role as counselor within the school community:

> When something comes up on divorce or remarriage, for example, the students will defend their parents. I make no judgments of parents who are married our of the Church, but try to point out the supports that these families miss by living atilide the Church communky. 1 think that in their parishes many actuls ger the message that they aren't wanted. Student arrange for me to meet with their parents, and sometimes they are ready for reconciliation with the Church. That's a valuable part of what I do here.

At St. Richard's, the chaplain planned and developed the school's religion program, which emphasizes experiential learning and discussion. Although each course has a well developed syllabus with topics, leaming activities, and discussion outlines, none has a required text. While several books are used fox parts of classes, the chaplain wanted to ensure that teachers were flexible in presenting material to students and that there was no over-reliance on textbooks. More generally, the chaplain seemed to infuse vitality into the school. To a large extent, his spirt became the school's spirit.

Unfortunately, the severe shortage of ordained priests as well as the reluctance of some bishops and personnel boards to assign priests to high schools limit this ministry at Catholic secondary schools. Two of the sample schools, S. Frances' and S. Peter's, do not currently have a chaplain. Without à priest regularly on carpus, the schools find it wore d'filcult to schedule daily, or even regular, Masses, as well as the sacraments of reconciliation, baptism, or anointing of the stick. In such cases, schools must vary celebrants, with the result that students have no opportunity to get to know

- a single chaplain and build a relaitonship with him. Although the presence of a permanent chaplain at these schools might not instancy improve the religious environment, the Catholic character of both schools is substantially weaker in this absence.

Teachers, both lay and religious, provide a strong complement to the chaplain's role within the school. Having integrated Vatican II ideals inter their lives, they serve as role models for the personal behavior of students. In their daily interactions with

- students, they make concrete the meaning of a Catholic school and Catholic values. It is expressed in their religious practice; in their personal lives, and in the ctedication they bring to their teaching. Without the strong presence of teachers enthustastically committed to building the school community, the spirit of the seton would surely suffer.


Comflicas cian atho cmerge hetuven the religious and acaidemic purposes of de sctoool. Hhey appear strongest in schnols athere sacudemic quality is high. Familles aften cinouse doese sichorols beccusse of their acrademic excerlence. Hbile the reltyions characher of the schoods is accoptiod as ap prort of Hhe Astal programs, some tersions arise abugut the comosut of tipus and anderxy dervoted to these actinties.

This conflict was evident in the sample schools with the strongest, academic reputations. Thetr status as high-achievement schools is of ten a major reason for thetr selection by students and parents. ${ }^{1}$ Many looked on these schools as a good economic. -invesment: axendance would enhance one's chances of admission to a premier university, and would ultimately increase the opportunities for getting a good job. In some caser, parents and students have not endorsed the religious goals of the school, particulkrly with regard to social fustice and responsibility, but simply accept them in their eagerness to share in the acidemic excellence of the institution.

The confict is most likely to sufface over the amount of time spent on apostolic service profects and classes missed for retreat programs. Balancing the emphasts on academics with a commitment to Catholic values and action can be a real dilemma for schools. It becumes necessary both to preserve the fundamental rradtion and yet to interpret if anew for each new cohort of families and studenss and in the face of an ever changing environment.
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An influx of non-Catholic students is a recent phenomenon in Catholic education. In general, elementary and secondary school enrollments are slightly ower 20 per-cent minority and over 12 percent non-Catholic. In some urban areas, Catholie elementary schools are overwhelmingly mpnority and about one-third non-Catholic. ${ }^{2}$

St. Madeline's provides a secondary school example. This urban collegepreparatory school. for girls is approximately 93 percent black and five per ent Hispanic. The ractal composition of this former eline academy for whttes changed slowly in the late 1960s and then ather rapidly in the mid-1970s. At the same time

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This comment echoes some of the tensions over the role of religion within the school and the conflicts over the ways in which this role should be expressed. It also introduces another issue about which the American Catholic Church is ambivalent - the role of women. Cle rly, some within the school perceive linurgy as an event that requires an adult white male to preside over a group of facuity and students who are overwhelmingly minority and all female. Although it loses some in ${ }^{-}$ the recounting, the mescage she wished to convey seems quite clear.
updsted periodically, widespread changes to accommodate the large non-Catholic
contingent have not been made. Non-Catholic students are required to take religion eact semester, and teactrers attempt to present the material in ways that might be relevant to these students. The school also has an active apossolic service program in which sudents work in soup kitchens, nursing homes, voter registration drives, elementary schools, and archdifcesan peace and pustre profects.

Students whose religious home background is fundamentalist are a concern for some of the teachers, including the chaplain. Since fundamentalists oppose any interpretation of the Bible other than a literal one, the notion of sacred myth, and the concept of religious story as theology, disturb these students. Fundamentalist students also commented on the extent of ritual within the Catholic church; especially in the sacraments: Teachers report that these students found this quite different from their religior, which puts great emphasis on the written and spoken word. With regard to moral issues, religious practice, and the importance of prayer, the fun-damentalist students were quite similar to other students in the school.

Of the sample schools, S. Madeline's had perhaps the moxs extensive religious services program. The sacramental program was quite active despite the large non-Catholic school population. In the school lthurgies, however, some conflicts emerged. Although the instructional and experiential programs were successful, one faculty member noted that the liturgies were "a real struggle." She spoke of the difficulties in celebrating Catholic liturgies in a school that ismearly 50 percent non-Catholic.

One reason liturgy is not as meaningful as it could be is because it is not connected to their lives. We should involve kdds using symbols and the arts. Our kids have the arts in their blood. The reason it doesn't work is because they are nox involved in the way we do liturgy-it's a spectator sport for them ... I can't get the kids to participate. I's complex. Some don't paricipate because they don't retate to it and some because they are non-Catholics. The lturgies are like a prescribed formula, someching done to them, led by a white, aduit male. There is irot a lor of sharing.
caméan increasing number of non-Catholics-currently 45 percent, up sharply from 25 percent pust three years earlier.

The religion curriculum at St. Madeline's reflects the priorities of most of the other schools we visited: scripture, sacraments, morality, the Church, and social issues. Discussions are employed frequently in religion classes. Although the curriculum is

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Cinfoolic schools bate, a distimetiee character inst transcenals religious programs and persoниеl. This
character is reflected in the serial interactions among students and farnily, the roles that teachers axsubue and the nexus in rebicbibey slew lined work, and the commituserte of students, parents, and faculty to a shared set of bumandivic relieves. This school culture reflects frant-Vatican II conceptions of the Cathoulte church that emplicavize comomarity
and sonedal responsibility.

Besides the obvious Catholic features of a school-its programs, activities, and personnel - 'the schools are also "Catholic" in other, somewhat subtler ways. These may appear less distinct to those who have a long affiliation with Cathoilc schools, but they would be quite noticeable to anyone approaching them for the first time. They extend to the core of the institution -the perceptions of students, parents, and staff about the nature and purposes of the school and the ways in whichyhese groups interact with one another.
Data from both questionnaires and interviews with students and teachers indicate - teachers know their students by name and have substantial contact acth them both in and outside the classroom. Partly because of the relatively small size of Catholic secondary schools and partly by design, teachers assume a diversity of roles within the schools as advisors, coaches, and activity moderators.

In describing the hiring of teachers, principals spoke of "building a staff" rather than filling a slot within some academic discipline. While expertise in the latter is obviously important, consideration is also given to the role each new faculty member could and should play within the school as teacher, coach, adviser, counselor, and activity moderator. For many faculty and students, the life of the school extends well beyond the traditional 8 A.M. to 3 P.M. boundaries.
Many teachers we interviewed described their work in the school as a ministry. While the financial rewards for teachers in Catholic schools are' meager, their personal satisfaction is very high. They value students not only for the quality of their academic pursuits but also for the nature of their interaction with the life of the school and the world outside. They express a strong commitment to humanistic -values (see Section 4 for more extensive information on faculty).

Parents too offered numerous comments about the frequency and quality of the exchanges between their children and the faculty. They see their adolescents' schools as humane and geared to students' needs, in sharp contrast to the Catholic schools many of them attended in the 1950s. They generally report that school discipline codes today are more flexible and attuned to individual needs rather than those they themselves had encountered Many parents express the pish that they could have attended such friendly and responsive Catholic schools during their formative years.

Student data from HSEB corroborate these points (see Figures 1.1 and 1.2). Catholic school students are more lithely than public school students to report that their teachers enjoy their work, are patient and understanding, and treat them with respect. Similarly, student reports from HSEB supp port parental claims about school discipline. Catholic school students rate the strictness and effectiveness of school discipline much higher; and also regard it as somewhat more fair. While caution is warranted in any simple comparison of public with Ciaholic schools, when these data are viewed in the context of our own observations in schools and the extensive testimony of teachers and parents, we believe they provide a coherent picture of life in Catholic schools grounded in an extensive empirical base.


# CURRICULUM AND ACADEMIC ORGANIZATION 

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This section is the first of three on the nature of academic life within Catholic secondary schools. Subsequent sections discuss the character of insuruction (Section 3) and faculty roles and concerns (Section 4).

This section begins to develop a theme central to our findings: the curriculum and academic organizatiön of Catholic fecondary schools play crucial roles in advancing the broad aims of the school. A consensus'exists among pareats, students, and staff abiut schiool aims and the mechanisms needed to address these aytiss. The shared commament resulting from this consensus is a powerful force shaping school life and a base of support ibr the work of the teacher. All this has a substandial impact on student achievement, socialization, and personal development.

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Changes in American secondary education occurred during the late 1960s and - early 1970s. This was in response to the desires of students and educators who wanted schools to become more humane and relevant to student needs.' Many secondary schools, including a large number of Catholic schools, experimenied with new ways of organizing curriculum, scheduling classes, and allocating school time.

These innovations were predicated on one central idea: learning is intrinsically interesting and through their rigid structures schools inadvertenty suppressed this natural interest. Student learning would accelerzte if these barriers were removed.

The schools we wisted responded to this movement in different ways.-A typical plan organized instruction into three components: large group teaching 40 percent of the time, indivteual study 40 percent, and small group discusstons 20 percent. ${ }^{*}$ Student and teicher schedules varied dally. Furthermore, students had significant discretion in the use of time.

Plans such as this required changes in schools. Class periods were reduced from 45 minutes to smaller units that could accommodate complex scheduling. Teachers needed to develop new skills to be able to direct independent study profects, lecture to lange group, and do long-range curriculum planning. The emphasis on independent study created the need for self-paced curriculum materials. Because these were
either nox available commercially or expensive, teachers often created their own. This process required substantial training and preparation. In short, the new academic organization had effects that exceeded the obvious changes in school schedules. .

Five of the sample schools changed finstructional straregies along these lines. Although details varied, most schools intriated changes in the edrly 1970s. Typically, they worked with them for about five years before returning to a more traditional organization.

For example, SC. Peter's adopeed modular scheduling in 1968 and education by appointment in 1975. In 1980, both programs were eliminated. The former director of curriculum at the school spoke of it as "a control group for innovadive educators." She thought education by uppointment worked well with bright and motvated youngsters. Parents, though, complained about the amount of uinstructured time given their children as well as the lack of homework. In addition, they sensed thar students were not focused in their use of independent study time. Accompanying these parental complaints was a decline in the size and quality of the student body. The school then found itself conducting a program that required motivated and talented students with a changed student bocty. Parental complaints and the dechning ability of incoming students seemed to encourage a cycle of further decline. Eventually, the school stopped the cycle by returning to a more traditional structure. In our interviews, parents and teachers were gratified the school again was emphasizing teacher directed instruction.

A similar experience occurred at St. Frances'. In the early 1970s, the school extablished resource centers, large and ismall group inistruction, Learning Activity Packages (LABS), and continuous progress learning. ${ }^{3}$ Aithough the initial response was postave, parents and prospective students began to perceive that less homework was demanded and academic standards seemed lowered. The sense of lower expeccations was reinforced by an emphasis on course electives that developed employable skills.

In 1982; a new principal at St. Frarices' instilled a more rigorous philosophy in the continuous leasing program. It emphasized more homework, increased writen and research assignments in LAPs, and more scheduled class time, especially for freshmen and sophomores. As the principal remarked:

If you want to categorize the changes that have taken place wthin the sctrool, you could say that we've gone from an innovative to a more tradtionnal proxram. And, in general, the students and parents are pleased wthh this change, and the ficulty like" the increased rigor at the school.
In general, experiments in academic organization led to more teacher responsibilities for curriculum development and more stress on limited fiscal resources.

* These combined with questionable assumptions in the underlying educational phdtosophy to create general problems. ${ }^{4}$ Finally; after a period of experimentation, the

[^5]$7 \mathrm{he}^{2}$ fiadrolic sencondary sichosol xurticalubm eonflionsize's core cicudembic conneres. Althought the wample sulomis affered stindernts " monlest ruage of clections ther spinetifled the majear peortion of crilumes racpmired for grathination.

TABLE 21
Number Of Acodemic Courses Taken By Public
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ichool Srusients,

An Acadewtic Cone. Five of the sampleschools were primarily college preparatory. Two others provided a broader range of offerings. St. Frances' had several courses in home eoonomics and bostress. St. Cornelius' offered business and vocational eler:tives along, wish spectal programs for learning disabled and educable mentally retarded. Even in the latter two schools, a central.academic cone for all students was required, except for the educable mentally retarded.

In general, the range of curriculum in , Catholic secondary schools tis modest compared to a compreherisive public high school. The typical Catholic secondary schoul emphasizes academiff foundarion cournes: mathematics, science, English, social surdies, and western European languages. The choices available to sturients at the sample schools were limited. Although most of the schools offered scademic electives, they specified. an average of 75 percent of graduation requirements.

- Required courgs ranged from a low of 14 of 21 needed for graduation at one school to a high of 20 of 22 needed for gradugtion at ancther.

Although the core academic curniculum varled among the schools visited, a rypical distribution included: four credits in English; three credits in-social studies-usually western civilization, non-western cultures, and United States history; wo credits in mathematics-usually algebra and geometry; two credis in science-typically physical science and biology; two credits in foreign language, with French, Spanish, and German as the most common options. In addition, as mentioned earlier, all sample schools required four years of religion.

Further evidence for this emphasis on an asademic corel: is found in Hteb Scbood and Beyond. Table 2.1 indicates that Catholic school students talce more academic courses than public school students. For example, the typical student in a Catholic secondary school takes an average of 1.12 years more of mathematics and .62 years more foreign language. Furthermore, recent analyses of transcript data from HSEB indicate Catholic school graduates average 15.7 credits in "new hasics" subjects compared with 12.5 credits for public school gractuates. ${ }^{3}$



[^6]The distriburion of core academic courses required in the Catholic schools we visited is compatible with recommendations from several recent school reforn reports. John Goodlad, for example, recommends an increase in the number of required academic courses and a decrease in the number of electives, especially in vocational education. ${ }^{\text {. }}$ Mortimer Acler, Emest Boyer, Theodore Sizer, and the National Commission on Excellence make similar recommendations. ${ }^{7}$

## A Closer Ionok at the Curiculum

Our. field work focuses on mathematics and English curriculum. We obsierved classes in the ninth and èleventh grades, talked with department heads, and-interviewed teichars. Our findings are summarized in what follows.
Mathematics Curriculum. Mathematics curricula vary across schools depending on student abillty level. At St. Comelius', the offerings were typical of the schools we visited (see trable 2.2). There are three sequences to accomodate student abilities: remediat, academic, and honors. Athough students are usually required to take only two mashematics courses for giaduation, many take three or four.


Sudents in sequence $1-10$ to 40 percent at the schools we visited-need special preparation for standard mathematics courses. For these, mathematios instruction might begin with a review of the four hasic computational operations, percentages, decimals, fractions, and practical applications of mathematics. Pre-algebra courses build on these and introduce the idea of a variable and equations ipvolving variables.
Sequence ILenrolls from half to three-quarters of the students au the seven schools. It is designed for students with average mathematics abilities and skills. Students in Algebra I study equations with one and two variables, exponents, radicals, quadratic equations, and linear graphing. The typical plane geometry course includes the theorems of Euclidean geometry with emphasis on constructions, congruency, similarity, and apptications of the Pythagorean Theorem. Algebra II and Trigonometry extend the Algebra I treatment of lintear and quadratic equations. They also cover graphing of first and second order equations, conic sections, irrational and complex numbers, kgarithms, trigonometric functions and identities, and series and sequences.
The final sequence is for students with above-average mathematics abilites who qualify for a five-year sequence in high school. The content of the four years in Sequence II is collapsed into three years to allow the addition of calculus or wher electives in the senior year. St. Edward's program was especially complete. It contained boxh Calculus AB (elemencary functions and calculus of a single variable) and

[^7]Calculus BC( AB plus infinite series, and differential equations). This school offered a total of 27 courses in mathematics including full courses in linear algebra, prohatility and statistics, and computer programming.
English Curriculum. The English program at St. Richard's was typical for the schools sudied. The ninth grade emphasized narrative and descriptive writing, the rules of grammer, vocabulary development, and inuroduction to four literary genres-poetry, drama, the short story, and the novel.

Tenth grade siudents continue work on gramimar and vocabulary. They also study the literary genres begun in their first year. At this level, there is more emphasis on critical writing. Students typically analyze and critique short stories and poetry. They are also expected to write essays which articulate a coherent point of view on a controversial topic.

Eleventh graders survey American literature from the colonial period to the twentieth century. Emphasis is placed on the relationship between historical and social contexts and the styles and interests of the period authons. When appropriate, teachers of American history and junior English classes assign complementary readings to highlight these relationships. Wrting assiznments include essays, critical papers, and research projects.

During the senior year, students read Englisn literature from the Anglo-Saxon period to the twentieth century. There is a continuing emphasis on writing skills, English mechanics, and vocabulary development.

Major variations to this pattern involve the range of literature studied in a particular year. Several schools offer American literature in the sophomore year and Enigtish literature in the junior year. In this sequence, students choose from several electives in their sentor year. These include advanced placement English, world literature, lierary seminar, and spectal interest courses-e.g., American novels, creative writing, fournalism, and contemporary fiction.

Curriculum Variation Acrass Schools. The schools visited use electives to communicate to students and parents their distinctive features. For example, St. Edwand's offers 12 advanced placement courses, four computer courses, and other advancedhumanities courses such as sociotegy and philosophy. On the other hand, St. Frances' makes available business courses such as stenography, dota processing, typing, bookkeeping, and accounting. In addition, there are a limited number of home economics courses. As indicated earlier, St. Cornelius' offers special courses for handicapped students.

In general, the range of electives is relatively modest. It is intended to complement the academic core curriculum. This policy is significant in two ways. From an economic perspective, it provides a viable response to the fiscal constraints affecting many Caibohic secondary schools. By concentrating efforts on a narrow set of activities, Catholic secondary schools accomplish much with modest resources.

There are also significant social and academic consequences to this concentration of effort. Previewing findings that we detail in Section 5 , the courses students take are the strongest predictors of academic achievement. Since Catholic schioll students take more academic courses than public school students, a substantial part of the biyher achievement level in Catholic schools is related to this fact.

Further, student background characteristics have a weak effect on academic achievement in Catholic secondary schools. The analyses conducted to dare suggest one point the schools commitment to an academic core curriculum accompanied by high teacher expectations and appropriate educational activities to support those expectations are keyfactors in proxtucing this achievement. The combined effect of school characteristics attenuates rather than amplifies background differences among students.

reachers in Catbolle schocals expect atl studertsto master a core acudemic currientmm. regardiess of backyround elibaructeristics. Further. they belleze this a curriculum is approphriate utithont reference to the fandarecomdary plans esfa sfudent.

Teachers' perceptions about the academic orientation of their schools were similar in the sites we visited High levels of agreement were found across many questions that asked abour the role of a core curriculum, college preparatory courses, honors programs, and diversity within the curriculum. These attitudinal responses are consistent with the curriculum structures present in these schools which emphasize required academic courses.

The responses of teachers to two questions suggest an important distinction. While only a third of them agree a college preparatory curriculum is best for everyone, over three-quarters agree all students should take and master a core academic curriculum. They held these views regardless of students' background or educational aspirations.
Further evidence of these high expectations were encountered in interviews with teachers. They spoke of the mastery they expected from their students. A mathematics teacher at St. Edward's stated:

I expect that the students will be able to study for themselves. . . I expect quality work from them and will ask them to do it over if it isn't right, and this applies to the remedial as well as the honors students.

An English teacher at S. Peter's spoke about what she expected from students:
I require that certain standards be met. I try to be compassionaxe. I lissen to them and sometimes accept their excuses if they fall short [e.g. their homework is hate] . . .But $I$ also let them know that they can and will learn If they work at th, and I expect them so do that.

Data from High Sobool and Beyond provide some corroboration for this. Over 70 percent of Catholic school students indicate that at least half of their teachers "make them work hard to learn." The figure for public schools is $\mathbf{5 8}$ percen.

In addition, these teacher expectations are strongly supported by parents and students. Evidence of this is found in our interviews, especially in the responses to questions on school goals and the adequacy of school programs. Peer group environments further support the academic objectives of the school. Very high percentages of Catholic school students in both the field sample and in $H S E B$ respond that their best friends are interested in school, receive good grades, and have. F stive anitudes about the school and their classmates. These shared beliefs provide the basis for mutual commiment among parents, students, and staff. They have a powerful influence on behavior.

## Showi fonficias:

 aswigning studewas fo classes comblie with the required academic come unal a modest runge ofThe Catholic schools we visited were structured to include honors, academic, general, and remedial programs. Although some schools offered electives on topics such as small gas engines, horticulure, and cooperative office education, we did not observe the multiple tracks of academic, general, trade, vocational, and occupational programs often found in a comprehensive public school.
"inatizesto mevilt in mimimaltrucking u-ithin Catholic secondery sifforsh. Timilarls. whonl fuoticien answigntoms facwlty members tor a ronge caf claswes from bonoors tus remedicil letrels wher diminish stratification at this lered. Althosught iter small size and limifed reswurces of cuatholic selmools ficertically uccrount for thesie affecits. phey are diso a dirvet exesult of a crmascions effem fol distribute fairly exherstionest opfortunities to all students.

Moss of the sample schools had flexible policies for assigning students to classes. Students reported they were nor kept from classes in which they wanted to enroll. Though students were assigned t 6 some classes, particularly ninth ant tenth grade mathematics and English as a result of a placement examination or elementary school achievement rests, other class assignments were more random. In junior and senior years, students choice of electiver became the important factor in determining class assigntment.

At St. Frances', a small number of students were grouped by ability in freshman mathematics and honors mathematics along with grades 10 to 12 English sections. As a result, most teachers had classes of diverse student abilities. Other than the single honors sections in English and mathematics, the other classes were heterogeneous. It was not unusual to find students from different grades taking the sqene courses. In general, students have extensive contact with a diverse group of clasismates.
S. Frances' also has groups of advisors that encourage stydent mixing. This type group was not found in most schools. The groups consisted of 12 to 15 students who ranged across the four grades. They meet daily for a fifteen minute session with their faculty advisor. These meetings are similar to homeroom periods but provide an oppoitunity for informal conversation and small group counselling by the faculty. Although new students enter the grouip and others leave through graduation or transfer each year, it was common to have students, remain with the same advisor throughout their high school program. This established long-term associations with schoolmates and a faculty member.

St. Edward's had the most extensive ability grouping of the schools we studied. Historically, students were assigned to a section based on ability. They remained with this section for all their classes. However, when Sc. Edward's instituted a nev computer scheduling system in 1983, this allowed for more flexibility in assipning students to classes. With the new system it was possible for students to go from one honors dass to another according to subject matter rather than having to attend all honors or regular academic ctasses.

Even within this school, the "most'stratified we ohserved, the allocation of resources diminishes "stratification effects. For example, St. Edward's assigns extra resources and some of its most experienced teachers to students who need additional assistance. Unlike most public schools, the honors sections here tended to be the largest, with as many as 41 studencs. On the other hand, the remedial classes in the speyfal freshman and soppomore program averaged between 15 and 20 in a class.

During our site visits at $\mathrm{S}_{\mathrm{i}}$. Edward's, we observed and interviewed students in the re nedial classes. Freshmen in the program have 90 minutes per day of Enylish instruction. This includes 45 minutes of reading which is not taught formally to other sudents. The extra time and small class size provide opportunities for individual tutoring and small group work. The students we interviewed thought the program helped them a great deal in other classes.

This program was adopted two years ago and strongly supported ty the faculty. One of the teachers in the program spoke of its strengths:

I like it because it gives these kids a chance to he successful. Before, they saw themselves at the bottom. Now they talk ahour heing in a spectal program that gives them a chance to develop their academic skills. IThe learning than (cxurs) gives these kids a much more positive antitude albout themselves. f
Faculty and administrators realize this program uses greater resources than any other within the school, but as one teacher commented:

We've always been considered as a schoxil for academically tatented stuckents, and to a large extent we are. This program, however, gives us a chance for make a difference with students who really need our help.
Parents of children enrolled in these classes support the program and appreciate the special opportunities provided their children.

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In each school visited we interviewed a random sample of students. One of the questions we asked invited them to talk about several of their schoolmates whom we idendfied with yearbook pictares. We asked if they knew each student, how they knew him or her, and what each person was like. Students' responses to our inquiries indicate a high level of personal identification in the ways students describe classmates. They spoke about other students in the following ways: "She's a friend of my big sister." "We go to the movies,together." "She's in the play, the drama troupe, here." "My good friend knows him." "We're in the same advisor group." "r've talked with her around the school, but I can't remember her name." "He plays on the basketball team." "We went to the same grade school together." "I see her in Church on Sunday."

Students at smaller schools knew mod of their schoolmates than students ax larger schools. At Bishop O'Boyle, the smallest school in our sample, every student we interviewed knew all the oher 'students about whom we asked. We showed the same collection of randomly selected yearbook pictures to faculty members. They, also recognized all the students. At the other exireme, St. Edward's, with 1500 students, had recognition rates closer to 30 percent for students and 40 percent for faculty.

It appears then the small size of many Catholic secondary schools faciltates extensive soctal interaction among students and faculty. This;' in turn, conrributes to the sense of community within the school. Although Htgh School and Beyond has limited information on the nature of sociad interaction within schools, the available data tend to support this proposition. Students in small schools have more leadership and executive experiences. They are also more fikely to report that their teachers are interested in them, and that they, in tum; are interested in school.
We believe, though, there is more at work here than the effects of school size. Regardless of size, across all seven schools we vistted, we encountered few comments of the type, "He's a jock," or "She's really stuck up." Negative stereotyping of students using comments such as these were virtually nonedistent. These interview data are further corroborated in student questionnaire responses. More than 85 percent of the students consider the relationships among students either good or excellent. Only 11 percent thought students became impatient with slower classmates. Only ten percent agreed that students from lower-income families had fewer opportunities in the school than more affiuent students. An even stmaller number, four percent, thought students ignored classmates who needed help. Responses from faculy and parents to the same questions produced similar results.

The cumulative effect of these dasa and our feld observations point to a crucial phenomenon: there is a shared set of values among student, parenis, and faculy that views the school as a social context committed to a vision of Christian community. This sense of community is accomplished with students wha are quite diverse. As noted in Section 5, about 15 percent of Catholic secondary school students are miportiy and 12 percent are non-Catholic. In addtaion, 2 wide range of parental occupational and educational levels is represented. Yet, there is homogenelty in one
important respect: there is a commitment to the broad goals of the Catholic school. We found considerable support for the idea that the aims of the school-involve more than striving for an optimal level of individual academicachievement. A strong sense of social responsibility and standards of personal pehavior which value kipdnessand caring toward others also are espoused. These are values that studerms aspire to attain. Furtinermore, as we shall describe in Section 4, the staff live and actively attempt.to foster this vision.

In sum, the small size of most Catholic secondary schools and the modest diversity in their academic programs combines whth policies on assigning students and faculy to classes to minimize stereoryping and differentiation among students. Faculty and staff strongly support these policles. Fuathermore, they believe students can and will learn and that it is their responsiblity to see that this occurs. Finally, the commitment to Christian community provides coherence and meaning to the endre enterprise.
The largest staple porton of -
He largest single portion of ieachers' and students' lives is spent in dassrooms. Here curriculum and academic organization meet teachers and students to creite a soctal context for instruction and learning. This secion considers the nature of this social consext within Catholic secondary schools.

Hespife the age of the pobsical phant in mamy af the sumple scheovis. the facilifits urere clean and free of gratifin aind ither signs of rumduldom. This general sernow of claminhiness and orver curriad oner into. the classiunm to crecate " phyisicul ronitronment crondncise to laztrnings.

The buildings housing the schools we vistrec range in age from a colonial mansion erected in 1750 to a contemporary glass and brick school/convent complex constructed in 1966. The three most modern schools were built in the 1960 s in stable residental suburban setings. The others were located in older buildings in inner cty areas.

The newer schools tend to be larger, better equipped, and physically similar to a modest suburban public school. St. Madeline's is a good example. It had pleasant exterior lines and well-kept trees and lawn. The interior space was well-designed with wide hallways and indirect lighting in classrooms. In brief, the physical environment is spacious, bright, clean, and unclutuered. Aldhough it is nearly 20 years old, the building looks almost new. It shows few signs of adolescents' wear and tear.

Some changes have occurred in the interior of Catholic schools over the past twenty-five years. There are fewer religious statues. One is more likely to find planas and greenery; carpetied floors, and a wider range of colors as was the case at S . Madyline's. These changes create a toral effect that is softer and less austere than an' earlier era.

The general amblance of St. Madeline's conveys a sense of order and community. Studens' art work and posters are displayed neatly throughout the halloways and in classrooms. In walking through corridors and lobbles, one is likely to encounter numerous groups of giris siting on the floors in small circles talining excitedly about the events of the day. There is obvious affection among students and texchers. A personal embrace or kiss as students greet classmates and teachers is common. These interactions suggest a great deal of human caring. Comments from students and faculty conveyed the same impression: the environment and culture of this school feels like home.

The intial approach to S. Frances'-an inner ciry Baltimore school-prowides a stark contrast to St. Madeline's. The barbed wire fence surrounding the back ofthe school yard is dificicult to overlook. Vistors must ring a buzzer and be screened visually by a secretary before entering the school, located in a troubled neighbor- hood. As one moves inside, the ambiance changes dramatically. We were struck by how much the externah world-the poorly maintained structures, the loud noise of traficic and the hecic life of the ctry-is left outside the school doors. The main lobby resembles a turn of the century mansion, large and graciously appointed. To the left is a sitting room furnished whth period furniture and an old oriental rug. The floors are
marble. An attractive wooden staircase with hilghly polished bannisters and floor, boards leads to the upper floors. A large stained glass window frames the staircase landing.

Despife the age of the facility and the need for major structural renovations, it is clear much attention is given to the physical environment at St. Frances'. It is a source of much pride. The general climate of the school conveys a strong sense of tradtion, stability, and affiliation. This creztes a psychological boundary as pronounced as the physical boundaries separating the school from the-city ousside.

Even in the langer schools such as S. Edward's where the physical structure is more traditonal, the sense of pride about the school and the feelings of community it engenders áre strong. Although elaborace physical plants are not a distinguishing charactertstic of Catholic schools; they are generally clean, well maintained, and orderly. Respect for the physical insitution is a value shared by staff and students. Further, this sense of respect transfers to the social enivironment as well. The overall . effect is of a safe, supportive enviromment conducke to learning.

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Teachers relied extensively on textbooks as the major instructional source. This was especially true in mathematics, science, and forelgn language classes. In English, social studies, and religion classes, more examples of teacher produced materials and worksheets were found.

Most instruction was in conventional classrooms, although we noted a few instances of instruction in makeshift setings like the comer of an auditorium or part of a basement cafeterta. The seating pattern in the classrooms was traditional - students in rows of desks or tables facing the teacher in the front of the classroom. An. occasional class had a seminar arrangement with students and teacher seated in a small circle facing each other. In most ctasses, however, the sheer number of students did not make this searing plan feasible.'

The instructional adds housed in classrooms-books, audiovisuad equipmen, maps, globes, posters, and charts-varied greatly across schools. Virtually every classroom conrained challdocards, bookshelves, and bulletin boards. In general, teachers had access to the basic instructional materials required for their ob .

In terms of more spectalized equipment, most teachers had ready access co.film profectors and overhead profectors. Instructional televiston and computers were less available, however. One school had a relatively comprehensive computer center offering both instructional computing and extracurricular computer activities for students. Computer eclucation programs and facilities were quite limited in the remaining schools. Some plan to make improvements in this area within the next year.

Teachers choose various approaches to decorating thetr rooms. Bulletin boards often display material relevant to course content. Examples of this are a Shakes peare festival poster in a funior English class, a dagram of the solar system in the physics lab, and a scene from the Loire Valkey in a French III classroom. Numerous items encouraginp trong school spirt were also present. These common Andings include slogans exuding school pride-"We are the Royal Family!" at St. Peter's where the team nickname is the Royals-and posters exhorting aitendance at school

[^8]athletic pr social events-"May the Force Be With Us Against Aquinas Prep on Friday! Get Your Ticket for THE GAME Today." There were also displays of students' work. Art projects, collages for religion classes, and examples of student writing were prominently exhibited in classrooms. The message teachers wished to convey was clear: we are a community, and your contribution here is valued.
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In the sites we visited, class periods range from a minimum of 35 to a maximum of 57 minutes. The average period is about 46 minutss. During the second round of field research, we used a structured ohservation protocol to doccument garefully teachers' use of class time. Table 3.1 indicates the time allocated for 13 different activties observed in 57 classes. ${ }^{2}$ These data indicate that most classroom time is spent on six activities: discussion, introduction of new material in the form of teacher lectures and demonstration, review of homework, in-class writing assignments and homework, clerical details, and quizzes, tests, and drills.

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TABLE 3.1. Average Amount of time Spent on Various Clasisröom Activifies (Field Rëseorch'Somple)

| Activiry | amomit of mman(minnea) |  |
| :---: | :---: | :---: |
| Drecussion |  | 12.4 |
| Insmiction, New Monerial |  | 40.3 |
| Hornework Review * |  | 6.7 |
| Whten Assignmerr in Ocss |  | 3.8 |
| Clercos |  | 2.6 |
| Wting Austrimery (Composition) |  | 2.1 |
| Quiz lest, Ditit |  | 1.9 |
| Rovew of Cuter Ter, Dill |  | 1.8 |
| Onal Reading |  | 1.8. |
| Revtew of Prewous Work |  | 1.6 |
| Stient Reading |  | 5 |
| Teut Preparation |  | 2 |
| PA Amoundemens |  | 1 |
| TOTAL |  | 45.8 |

One of the better. classes observed was an honors Algebra I class at St. Richard's. This well-planned, quick-paced freshman class worked on solving equations in one unknown by substution, graphing, and intuition. The seacher began the' class by describing briefly the plan for the day, how it related to what they had been dolng and where they were going. She then lectured for about 15 minutas on the new matertal. Aftuerward, some students went to the blackboard to work on problems related to this topic. Toward the end of class, she gave a brief quiz on the homework assignment from the previous ntght and assigned some new homework. She spent the final minutes of class reviewing work what studenas absent the preccous day.






This class was unusual because of its crispness and overall quality of instruction. It does share several features found generally in Catholic secondary school classrooms. In particular, teachers in our field sample indicate testing and homework are a basic component in their teaching. They give at least one quiz per week and a test every two or three weeks. Approximately two-thirds of the teachers report they give homework three tgyour times a week. Over 50 percent of the students in the field sties report they spind more than five hours per week on homework. Higb Sopool and Beyond data (see Section 5) indicate these are typical responses. Finally, a surprisingly high 62 percent of teachers respond they "always" or "usually" grade students' homework.

In addition to tracking the use of class time, we also documented the types of teaching strategies employed. ${ }^{3}$ We categorize reacher-initined instruction into three groups: didactic instruction where lecturing or teaching by telling is emphasized; coaching" where. the.teacher wortss with individual students in a drill and practice format; socratic where the reacher employs questioning to enlarge ideas, probe, and generally stimulate higher level cognituve sidils.,

Virtually every class visited involved some amourt of didactic instruction. While the most common strategy, it was rarely the exclusive one. Most classes involved some amount of individual coaching and socratic teaching. The latter, however, might only be for a small portion of the class. It was more likely to occur in English, religion, or social studies.

- Perhaps the best excmple of discussion teaching was an English class in which the poetry of Langston Hughes was analyzed. The teacher elictred comments from students and encouraged them to use them as a basis for interpreting the poem. The reacher probed this upper-middle class white student group whth questions such as:

Have any of you ever been in a stacaton where you were in the minority? Whas did that feel like? Have you ever been in a stuuation where life has been extra hard? What was it like? What do we know about Langston Hughesp What insighas do you have about his life after relding his poetry?
Although classes of this type were rane, we did observe a mix of activities and teaching techniques, even though didactic teaching was the most frequently em'ployed. Across virtually all classes vistred, we found a strong emphasis on student accountability in the form of regular homework and frequent testing.
3. Thk system for categortaing dowanom teaching is based on ideas advanced by Momimer Adler, 7be Paedete Propocide, Nest York: Macmiflan Book Co, 1982.
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Assessing the engagement of students in classroom instruction is an elusive task. Fundamencally, we want to document cognittve processes not observable directly. As an alternative, one looks for behaviors that indicate these latent processes may be a. occurring. We approached the problem in two ways. First, we looked for indicators of no involvement in classroom activities: students with their heads on their desks; students withour books, paper, or pencils; and students talking to others during class instruction. Second, we noted signs of active-student partictpation: contributions to class discussions; working out problems at the board; reading aloud from the text; and asking questions. Ax two prédetermined points, 10 minutes into each clats and 10
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minutes before the end of each class, we recorded what each student was doing. In the 57 classes observed, almost 90 percent of the students were engaged at the first chectpoint. This fell to slightly under 80 percent at the second assessment.
These data suggest a high level of student engagement in classroom instruction. Further, the relatvely small proportion of students not engaged refrained from interfering with the engagement of ochers. Acruss all the classes vistied, we did not observe a single incident of student classroom behavior that disrupted the instructional program, Data from teacher questionnaires in these schools and national information from Higb School and Beyond indicate these are characteristics of student life whthin Catholic schools. They are not limited to the classes we observed.
Fewer than five percent of the teaehers in,our sample report any of the following problems: student fights in class; students under the influence of atcohol or drugs; physical or verbal abuse of students; students ridiculing other students; and excessive absences or tardiness. Failure to do homework and minor infractions were cied by fewer than 15 percent of the teachers'as regular classroom problems.

Scudert data from HSEB offer a similar plcture. Figure 3.1 indicates the low incidence of students cuting classes, refusing to obey instructions, talking back to teachers, and physical autacks on teachers in absolute terms and in comparison po public schools. Stmilarty, the vast majority of Catholic students: exprèss a strong interest in school both on their part and on the part of their friends; believe that the academic quality of the schools is either good or excellent; agree almost unanimously that their schools hate good reputations within the community. HSEB data from principals provide further confirmation.

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As we integrate these various sources and types of data present in this section and the preceding ones, a clear picture of life within Caholic school dasmrooms emerges. Students are actively engaged in the insitictional priccess. They see thetr teachers as interested in them as well as padent and understanding. Teschess are atso firm and commined to high standards. Mutual respect among students and teachers alike characterizes the sactal environment. The inctidence of disruptive behaviors of aty - kind is yery low. This is an environment conductve to learining. And in fact, learning does occur.

# FACULTY ROLES AND CONCERNS 

## COMPARISONS OF RELIGIOUS AND LAY FACULTY IN CATHOLIC SECONDARY SCHOOLS

Cowsemsus extats urithin the fatyolties in sbe sthomals ite sisfted abomenf thew ucudemic parponses. of the sctool and the uryartixation anal. methods of instruction emphoped in address therse purponses. Teachers. lary und religions., share simillar conceptoms of thetr mole do the sctovols. From this perzpectice, tbe transformation of Cathoolle schomol faculates. from prexdomincrntiy religious to lay is a story af conntinuity wiltb rrwalition.

Whe"N anatyzinд religionds proctices and opintons on moral Assuess, we mofed differences befucen

Historigally, religlous orders have shaped the character of the Catholic schools they sponsor. These orders are responsible for the school madition, part of which includes a commitment to an academic core curriculum, We found strong support from religious and ky faculty in the field sites about thts aspect of the school's mission. Teachers' questionnaire responses indicate religious and lay faculty agree that students should cake a core acsidemic curriculum ( 77 and 76 percent, respectively), and all students should master such a curriculum ( 80 and 85 percent, gerpectively). Similarty, only 29 percent of religious and 33 percent of lay faculty think all students should be required to take a college prepatatory program. We interpret these data as strong support for the principle which organizes the academic side of Catholic secondary schools: an academic core curriculum is appropriate for all students regardless of background or post-secondary plans. When discussing academic goals for Catholic schooks, the transformation from predominantly reItglous to lay staffing is a story of continuity with tradtion.

Religous and lay faculty also advocate similar ectucational philosophies and employ comparable instructional methods. Both groups emphasize regular homework and testing. In our sample, 58 prrcent of religious and 63 percent of lay faculty assigned homework a minimum of three times per welk. Similar percentages indicate they "frequentiy" or "always" graded homework. Eighty-seven percent of religious and 90 percent of lay, teachers report that testhy is a regular part of thelr teaching. In the classes we observed, both lay and religious teachers tend to empha: sibe teacher-directed instruction.

In commenting on the spiritual climate of the school, religious and lay staff $\checkmark$ espouse similar human values and srandands for soctal responsibility that should guide personal behavior. Both lay and religkous faculty believe overwheimingly that
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facuity. These mifror the corflicting perspectites artibin the Americran Catholic churrben such invues.
their schools should foster soctal justice and caring, "promote the building of a Christian community, and offer students the opportunity to interact with persons of other races.

The parents interviewed express satsfaction with the work of teachers within the schools. They nore no obvious differences berween the performance of lay and religious faculy. Students also report that both religious and lay teachers were accessible and made time available for individual students. When asked to differentiate between the two, sudents were ofien at a loss. They generally ctte the younger age of the lay faculty members.

When we turn our attention to religious practices, however, there are modest differences between these two faculty groups. Whereas all religious members indicate they regularly atrend Sunday Mass and about 50 percent regularty go to confession, the lay faculty responses were 70 and 16 percent respectively. Approximateiy 33 percent of religious staff and 16 percent of lay faculty are currently working on social service or netghborhood projects.

The questions on moral issues indicate a greater divergence. Approximately one-quarter of the religious faculty and half of the lay staff agrecthat remarriage after divorce is "usually" morally right. While only four percent of the religtous staff thought premartial sex between adults who love each other is "usually" morally right, about one-quarter of the lay faculty agreed wth this statement: Finally, on the question of "legal abortion if the danger to the mother's health is grea,", 11 percent of the religtous faculty and 35 percent of the lay faculty thought this is "usually" morally right.

We should.be careful not to read too much into these data. While the differences between lay and religious faculty on certain religious practioes and moral issues suggest some conflict, this is by no means unique to Catholtc school personnel. These groups mirror disagreements within the American Catholic Church. In fact, given the diversity of opinion within the contemporary Catholic Church, in our view there is a remarkable consistency in the positions expressed in the teacher questionnaires.

## GENERAL CHARACTERISTICSOFTEACIERSIMCATHOLICSCHOOLS: THEIR ROIES AND CONCERNS

High School and Beyond data and the NCEA statstical summaries prowide descriptive information on Catholic secondary school faculties.' Sixty percent of these teachers are female, 89 percent are white, and 78 percent lay. The total staff includes 16 percent female religious and six percent religious brothers or priests. All staff have at least a bachelor's degree, and 42 percent have their master's. As present, national data on teachers' age or religion is limited. ${ }^{2}$ The median age for Catholic secondary school teachers in our field sample which shows a high degree of consistency with national data on other indicators was 35 years. The staffs were 85 percent Catholic. Religious facilty were typically older and more experienced than lay colleagues. In the schools we visited, the' reltglous faculty averaged between 10 and 25 mone years of teaching experience than the lay staff.

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The theicul tracker in a Cutbodic secondary school currtes a beaty uorkloncel. It incluches multiple class proparations and extemsity
extracurricular uctirities. Teachers in the field sample spend o'er 40 boners per wewk at schenol. Orer balf bace after-schoos! responsibillities sucb as croching or moderationg arritities.

Teachers in our sample report they spend an average of eight hours and 15 minutes at their schools each day. The typical teacher arrives shortly after $7: 30$ in the morning and leaves approximately $3: 45$ in the afternoon. She teaches five 45 minute pertods per day. This may include responsibility for a single section in one course and two sections each in two others. She also spends 3 hours and 45 minutes in class each day. She might have about 45 minutes for class preparation, approximately an hour for lunch and personal time, and 30 minutes for passing berween classes. The remainder of her time on campus is spent correcting papers and working whth individual students.

After the instructional day, many teachers participate in coaching axhletics, moderating extracurricular activities, and performing other school-related duties. Forty: nine percent of the teachers in our sample schools moderate between one and three co-curricular activides such as the Spanish Club or the debate team. Typicully, this required about stx hours per week of the teacher's time throughout the school year. When it comes to coacting athietic teams, 24 percent of the ceachers report spending an average of nearly 11 hours per week on such actuvtiles. In addition, half of the teachers report they spend an average of over etght hours per week on other school-related responsibilittes like bingo, fund-raising, and parents' meetings.

Teachers also report spending between eight to ten hours per week at home on school-related work. This includes correcting papers, reading for chass assignments, and preparing for the next day's classes. Adding together the regular teaciing time, extracunicular activities, and home preparation, it is clear many Catholic school teachers devote over 50 hours per week to work.

While this data overviews faculty responstbilities, a brief look at a typical day for an individual Catholic secondary school teacher-in this case, Margie McDaniel, a second year faculty member at Sx. Peter's-is instructive.

Margle usually arrives at school at 7:45 A.M. She begins her teaching day whith homeroom at 8:15. At 8:30, she teaches an English I class for average ablitity students. It meets undi' 9:20. She moves immediately to a remedial reading section for 15 students, her next instructional period. During her free period from $10: 10$ to 11.00, she may correct papers and prepare matertals for one of her later classes. From 11:00 to 11:50, she teaches an honors section in English 1. Lunch with faculty colleagues consumes about 20 minutes, and the remaining half hour may be spent valking whin students involved in one of the co-curicular activties she moderates. At 12:40, she begins her second section of English I. It is followed by an English II section for average ablitiy students.

The remaining part of her afternoon schedule changes with the seasons. During the wirter, she coacties baskethall for the girls' varsty team from $2: 45$ to $4: 15$. This is normally followed by an hour or so of administrative work assoctated with being the girs' athletic director. In the fall, she coaches funior varsity volleyball. In the spring, she asstess whth softball. On days whth no athletic practioes, she max spend a few hours on her cuutes as English department chalrperson. She rarely leaves S. Peter's before.

SP.M. On many occasions she stays at school well into the evening for athletic events or parents' mectings. She estimates she typically spends at least two weekends a month anthe school for various co-curricular activities.

Margie spoke with enthusiasm abrout teaching and coaching at St. Peter's. She enjoys the students and the communiy spirit. Gering to know students and having some influence over their personal arowth is rewarding. Although the hectic scheduke is sometimes overwhelming, she claims her organizational skills and ability to use time productively have grown in this process.

On numerous occasions we heard similar comments linking positive testimony abour school life with a remark about how stressful it can be. In particular, teachers mention the daily stress of correcting papers, admonishing students, monitoring safeterias and hallways, meeting with parents, and the extended work days. One teacher stared:

Although 1 really enjoy working with kids, 1 get rired at times. The pace is hectic, and it abways seems that there are mone kohs that need to be picked up.

We asked teachers to tell us why they taught at Catholic schools. We encourdged them to reflect on how they felt about their work. To tell this story, we rely heavily on their comments.

Virtually every teacher interviewed indicated their work is more than the five-class, seven-hour day. In addition to being committed to teaching, class preparation, and the instructional programs, they spoke also of the emphasis on personal values and community at their schools. A sister at St. Cornelius' talked about her situation:

1 don't view it as kob. What I see here, and one of the reasons our religious community is here, is for the education of the poor. . . I think the importance of this work is not only in the academics but also because we teach personal values and are concerned about meeting students" other needs as part of what we do.

## A faculty member at St. Edward's reflected:

I see what we do as teachers on three levels. We are role models in that we are living examples of the beliefs that are taught in religion ctasses. We also have an obligation to teach values. I used to think that I was a Spanish and Frenctit teacher. Now I know that my values are an keas as important as the content I teach. Finally, I remind myself that we play a four year part in these studencs lifetimes. . . What we have ro transmit is a vision for the future to help them mold themselves into the kind of persons they want to become.
A faculty member of $\dot{\mathbf{S}}$. Frances' spoke about integrating life with learning in her classes:

As far as I'm concerned . . . besides the background on literature, grammar, and the like, we discuss life and the problems that sudents are likely to enoounter. It is jusi as important what they learn about life while they are here as whan they learn about academics.
Clearly, teachers in Catholic high schools see themselves as role models for their sudents. One teacher stated succinctly a view shared by others:

Fven if reachers don't teach religion, we reach ty our Ifves. Basically, this school is a groxi environmen, and we teach by our example and who we are. We strive to make students more conscious of the world around them and how they fit into it.

Finally, some teachers spoke about their work as a ministry "of helping people, being involved, and feeling fulfilled as a result," as one teacher phrased it. Some view what they do as integral to the churct's work in education and religious development. The first and most obvious aspect of this is in teaching religion. The chairman of the religion deparment at S. Edward's said:

In hiring teachers, we look for ministers. In some schooks, people start as teachers but then plan to get into business or some ocher anea afierwards, but we reinforce academic work and miniscry here.
In addition, some teachers ctaim an important part of ihe work of the school involves supporting students whose families are troubled. Principals and counselors in many of the schools we vistred commented on the increasing number of studens whose families experience stressful situations such as divorce or unemptoyment. In reflecting on this ministry within schools, one teacher spolse of the surrogate parent role that teachers and schools take on for some student..

It's amazing when you hear them talk about thetr families. It's tike they don't have any stability at home. Their life here at the school is about the only thing that is stable in their environment. I feel at times that we function almost like parents for some students.

In broad terms, many faculty view their muldiple school roles-teacher, coach, counselfor, and adult model - as a ministry unto itself. On numerous occasions we heard comments such as:

This is basically my miniscry. This is my way of serving Göd in my life. I think many of the faculy here look on it in this way.
The manner in which Catholic school teachers talk aboüt their work is reminiscem of the multiple roles played by public school teachers in an earlier era. As recently as 1945, many public school teachers were forced to board with families in the communiry because of limited incomes. A positive result of this practice was that teachers were an integral part of the community in which they taught and whose values they shared. As Diane Ravith recounts:

Even where teachers led independent lives, they were expected to spend afterschoot hours as supervisors of extracurricular activtes and to know their studenss; they, in rurn, could count on parems to support and reinforce the demands made by the school. Colleges and universities never questioned their role in loco paneruts: they were responstble for the young men and women in their care, as if the insciation inself were the parents. ${ }^{3}$
This description of an earlier age in public educaton seems similar to the scenes we ohserved and the voices we heard in today's Catholic secondary schools. Faculty helieve teaching values and shaping the lives of young people by action and example are just as important as the academic components of their work. They incerpret their roles as including concern for personal and academic development. Parents support this concepr. They remarked ofte in our interviews that the academic quality and personal commitment of the faculty were major factors. in their decision fos send their child to a Catholic high school.

Whilents starter" of the commitment. rexs/ronsituentess. and bigh acautemic standurds of their feacbers. Purents and principuls appressed stmilue foasidice vieuss rownarvl the facrulties th the mymols me tistiont.


In interviews and on qucstionnaires studenss report almost unanimously that their teachers are availible to assist them before and after school. A group of seniors and juniors spolve of their teachers in these words:

The teachers are here to help you. . . They really do care about you. After you're here at the school for while, you begin to realize that they are ready to talk whith you and listen to what you went to talk about.
This school is strong academically and the reason is the faculty. They're good reachers, dedicated people, and they' prepare us well for college.
Parent questionnaire data corroborates these points. Nearly 90 percent of the parents characterize teachers' interest in studenas as either "good" or "excellent." Over 80 percent indicate "teachers definttely are willing to help'students before and after school." Almost 50 percent of parents report extensive student-teacher interactions occurred in their schools. Over 60 percent of the panents qgree that "teachers support students from troubled families." In interviews, parents spoke of teachers treading their children with respect. This enabled the students to grow in self-respect. Other parents commented that Catholic school teachers support the values of the 'family. They thought this was very important.

High School and Beyond data confirms these views. Catholic school studenss rate their, teachers high in evaluating their interest in students inside and ourside class. This is also true of the respect, patience, and understanding that teachers demonstrate. The evidence from parents and students indicates an enthusiastic endorsement of Catholic secondary school teachers. As one parent said, "They are generally very exceptional people."

Princtpals' reports from HSGB provide further evidence. Principals in Catholic schools are less litely than public school principals to rate teacher ahsenteeism as a problem In fact, Catholic school teachers are absent less. Catholic school principals are also less likely to indicate teachers at their schools lack motivation and rommitment. This data suggests a high degree of satisfaction by Catholic schools principals about their faculties.

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 a commitment to their sfraleonds ined their sobenols, they indicate

We document in Section 7 that Catholic school teachers' salartes average 30 to 40 percent less than their counterparts in public schools. Many of the teachers interviewed spoke of holding second jobsi and making personal sacrifices to continue teaching in Catholic schools. One.third-year teacher talked about her struggles:

I worry about my finances quite a bit. I always have a second and soppetimes even a thind job-selling in department stores, working as a youth counseltor, and the like. It bothers me that I might not be able to affurd to stay here, because I really enioy the girls and my work.
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disventigfaction with their lowe seuletrtes. 7bey
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them mare. Thone is a sense of
diserfinumcbisement, and erem furtber, a lack of inflicence in matters of futcernancer and finamer.

The salary schedules at many schools limit the range of individuals who are able to remain on the faculty. An experienced teacher at St. Frances' noted:

There are no men on the feculty. They couldn't affiond ti. Oir faculty consists of two distinct groups: young college graduates on their first fob and wives of setcled businessmen for whom the money isn't impormat. In gencral, it's the last group that stays.
Teacher questionnatre data indicate a high degree of dissatisfaction with salarfes. Sixty-five percent thought their salaries too low. None thought them too high. Only 15 percent thought their salaries about right, raking tnto consideration other intangible benefits of teaching at such schools. St. Cornellus' and St. Edward's were the two schools at which the salary schedules were most comparable to local public schools. Fewer than ten peroent of these lay faculty members indicate that salary would be the main reason for leaving the school. On the other hand, at the schools with the lowest salary schedules, nearty 30 percent of lay faculty list low salaries as the major reason why they might leave the school.

Most important, only 38 percent of the teachers thought their schools were paying "the most that they could afford." This dara suggests a credibility gap between reachers and those who set salaries. This point is supported by teachers' responses to questions concerning their degree of invokvement in establishing school policies.

On the one hand, teachers felt strongly engaged in classroom and curriculum. matters. On the other hand, they indicate very low levels of involvement in financtal and poltcy matters affecting the whole school. Our dan shows 95 percent of the teachers in the schools visited say they had a good deal of influence over their own teaching, and 60 percentreport they exercise a good deal of influence in the area of curricuhum. Only seven percent, though, report they had much say in the financtal managerent and planning occurring in the school. The figures are also low (17 percent) for teacher infuence on school policles. As one teacher remarked:

Ifeel fusuramed that I'm never asiced for my opinion. I think I have some valuable ideas and yet I never gex a chance to express them to the people in charge.
Expressions of this sype were not common in our tmerviews. They prowde evidence, though, that some teachers feel a lack of influence, within the school they personally support, often at great sacrifice.

In our view, there is an aspect of the tra sformation of Catholic schools from relighous to by institutions that demends more itwention. We belleve atachers are the great strength of Cetholic secondary schools. Thetr extended work days and broed investment in school life reflect an uncommon dedication. For this reason, we mise notice of the surprising degree of disenfranchisement of lay faculy from financerand governance matters in Catholic schools. The current successes and the furure of Catholic schools depend on the contnued commtrment of the lay faculty. Those interested in the survival and health of Catholic schools should not ignore the voices of those so essentil to continuing the tradition, and who, in growing numbers, stafif the schools.

Even as we point to this vexing problem, we alsn note we did not observe indications of open confilic between administrators and faculty in the schools vished. As we demonstrite in Section 8, this seems due largehy to the strong sense of deference to religious faculty thot influences governance whinin Crholic sahools. whether this continues, however, and for how long, nemains an open question.

This section is primarily an analysis of data from the national survey on American secondary schools, Htgb School and Beyond. We present our findings on the 1980 cohort of sophomores questioned again as seniors is 1982. Data.from our fleld studies are relegsted to a supporting role.

This section is divided into four parts:

- A brief description of Caholic se.ondary schools based on the HSEB data that includes a discussion of some major differences among Carholic schools as well as how these schools compare as a group to public schools;
- A brief examination of the instrutional factors associated with quality secondary schools;
- A derailed exploration of the nature of the effects of Catholic secondary schools on students' academic achiévement, post-secondary educational plans, and affective and soctal development;
- A discussion of selected findings from our research on Catholic schooi effects.

The first two parts provide background information for the third part. The third part is the heart of this section and the centerplece of our entire research effort. Since we summartze in a few pages a voluminous amount of statistical analysis, the fourch part is added to highlight selected findings that are'of general interest.

## CATHOLIC SECONDARY SCHOOLS AND THEIR STUDENTS

Our primary research interestin analyzing the HSEB daxa was to explain the nature of student development in Catholic secondary schools and the personal and institutional factors assoctated whit thaz development. We considered four factors: the personal, family, and academic background of the stidenc; the characteristios of the school atrended by the student; the nature of the student's engagement whth the school from the .perspective of student asuitudes, behavior, academic and cocurricular activities; the academic, affective, and soctal development of the individual student. Several construgts enter into the composition of these factors. Each construct is measured through a series of virtables. Figure 5.1 presents the theoretical and measurement framewosk used in structuring this investigation.

- To faclitate the presentation of the analydic results in part three, a brief description is provided of Catholic schools and their students based on HSEB. Some of what we report is documented by both Greeley and Coleman ot all' Nevertheless, we include it because it is important data.for understanding our results."

FIGURE 51 Voriables Which Comprise the Mojor Construcrs and Factors

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| Penomed, formily, and Acadomk Bachymound | Acodemic Background | - A composite vartable consesting of informgition on: <br> - College ambinions in grade 8 <br> - Repecied elemernary school grodeds) <br> -Remediol group placemert of Iugh school <br> -Enmance exom required for high school evary | Acodemic Background |
|  | Elementary School Expenence | - Comhatic public or muxed | Cortricic Elementary Enperience |
|  | Demograpitic Ohorocteristic | - Sex <br> - Pace (Hisponic. black white) <br> - Retiglon (Cortholic, non-Comtrolic) | Female Block Hoponic Mon-Cantale |
|  | Social Olass | A comporne consesing of informorion on: <br> -forily income <br> --porental educamion <br> -parenwal occuporion <br> -selecred household possestions | Sindent's Sociol Closs |
|  | Finoncial Socrivice | - School mition as a percent of family income | Financial Soctrice |
| , | Relliglasify | - A composine varable consering of: <br> -frequency of omendonce of relloplous services <br> -Sindert thris of self es rellolous person | Rethoioumes |
| - | famly Stucture | - One or iwo parenss in household <br> - Number of stblings <br> - Home ownesthy | Single Porent Howsehold formily size <br> Horm Ownerstip |
|  | Parental involvemens | - Poremal engogemert whth the sudent (montror school work speok whith studert obour personol maners. know muders's wherectouns) <br> - Parenrol involvement in school moness (PIA porentiteacher conferencer. sdiool profects) | Ponerral Engogement whin Student Paremal involvement with School |
| Schood Chamacertsics | School Soctal Context | - Averoge socig doss level <br> - Sociol dass diversiry of schiool <br> - Pescent black emoliment <br> - Percent Hoparic enrollment | Schools Sociol Cioss <br> Soctal Ooss Diversily <br> \% Block Sudents <br> * Heporic Smudents |
|  | Duciplinory Climote | - Amincipal's repor of decipline problerrs <br> - Smudensi repors abdu hequency of obusve behovtor (ychool overage) <br> - . modidence of dictipline problems (xhool average) | School Decoplliee Prablems Abratve flethovior in School <br> Schoor Disaplinary Cimore |
|  | Accodernic Climore | - Srudens anmude fowerd ocadernia (school averoge) <br> - Studensi' use of ime for cocodemic pupposes. (e.g. more tromework less IV. hess pdid work) <br> - Peer ortandes fowonds ocaderntos | Sindents' Acodernic Amtrude <br> Sudens: Acodemic Use of Time <br> Peer Acoodemic Antiude |
|  | Fiscal Resources | - Tuliton (1980) <br> - Per-pupil expenctivre ( 1980 ) <br> - School size <br> - Srudent/faculy ratio | Tunton Per-Pupll Expenctrure School Slixe Sudent/Foculy Plorto |
|  | Fcinuly Resources | - Sraring salary lever (1980) <br> - Percenf of foculy with odvonced degrees <br> - Percent of recachers of school 10 years or longer (facally spoblliny) <br> - Percent of focily who leave each year ofter than retimement (foculy rumover) <br> - Principof's repors about problerns with sroff | Srorming focully Sotary <br> \% focully whin Acvanced Degrees <br> \% Faculy $>10$ Years oi School <br> \% Annual foculiy lumover <br> Incidence of Srolf Problems |




Catholic schoonds are diferse. Turo structural features combrlbute stgniffcomity to this diterstity. The first ts the sex comprasilion of the school (male onty, female ontly, or coed). The secomal is the sclent genernance structure or sponcurship arrangerment (religious order, purish, ar dioncesan).

Over 40 percent of Catholic secondary schools are single-sex insututions. Of chese, approximately 60 percent are all-female. ${ }^{2}$ In terms of governance, 40 percent of all Catholk secondary schools are sponsored by religious orders whth the remaining 60 percent sponsored by dioceses and parishes. Since it is nor posstble to distinguish between diocesan and parish schools on the basis of $H$ SSB data, this section combines the two. (For a further discussion of governance differences, see Section 8.)

In addition, sex composition and sponsorship are themselves related. The large majorty of religious order secondary schools are single-sex. Only two of 84 in the HSGB sample are religious order coeducational schools. This factcombined wth th results of other analyses described below to convince us of the need to join these $t .5$ chassifications into a single set of related categories: boys' religious order schools, other boys' only schools, girls' religious order schools, other giris' only schools, and coed schools. Table 5.1 indicates the substandive differences among these five groups on four trems: the background of students; school characteristics; student engagement with the school; patterns of academic achievement and college plans.

Religious order school students tend to be more affluent and have higher achievement and college aspiratons. These schools generally have higher tutions and attract a larger proportion of public elementary school students. In compartson, cogd school studenss tend to be more religious. A larger percentage of them also have a Catholic elementary school background.

There are other substanthe differences acroas schools that result directly from sex composthion. Regardiess of the type of schodl attended, giris tend to spend more time on homework, watch less television, are less likely to work for pay or have a discipline problem, and have more postatve atthudes sowards academics. On the opher hand, boys are more likely to hive leadership roles around the school and take more mathematics and sciende courses.

The gids' non-religious order school is distinct from the other four. The average soctal chass and income level is considerably lower and is actually less than the national average for public schools. The attuides of sudents toward academios are less positive. Over haif the girls are enrolled in a vocational or general program. This. is a distinct contrast with the general pattern among Cutholic schools where owtr 70 percent of the students are in an academic program. The overall achievement level and percentage of students with college plans in this type schiool are lowest among the five groups. Here, too, they are lower than the average for public school studens.


|  | $\begin{aligned} & \text { rors } \\ & \text { naperges } \\ & \text { operin } \end{aligned}$ | $\begin{aligned} & \text { sory } \\ & \text { mocturn } \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { emers } \\ & \text { ongens } \end{aligned}$ | $\begin{aligned} & \text { coms } \\ & \text { ormang } \end{aligned}$ | $\begin{aligned} & \text { comp } \\ & \text { camouc } \\ & \text { singons } \end{aligned}$ | $\begin{aligned} & \text { forue } \\ & \text { cinouc } \end{aligned}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| STIDENTS BACKCROUMD | ก=260 | $n=250$ | n-392 | n=219 | คํ900 | $n=2050$ | n-2352 |  |
| formily hicome | \$37.896 | \$31,791 | \$35.306 | \$25.431 | 533.757 | 833.596 | $\mathbf{5 2 7 . 8 5 1}$ | \$33,385 |
| Soctal Class | . 266 | . 095 | . 166 | -. 711 | . 044 | 0 | -. 518 | - - |
| Relfigloumex: | -. 108 | . 094 | . 025 | -. 355 | . 108 | 0 | $-.723$ | -. 014 |
| Parental Inolvement in School Moners | . 011 | -.004 | . 149 | . 032 | . 053 | 0 | -. 218 | . 009 |
| Porentol Engogement Wht Siudent | -. 034 | . .042 | -. 041 | -. 322 | . 066 | 0 | -. 445 | -.347g |
| \% Black Enrollmeer | 076 | . 069 | . 028 | . 027 | . 037 | . 042 | -. 105 | . 069 |
| \% Hispanic Emrollment | . 125 | . 092 | . 091 | . 149 | . 072 | . 089 | . 127 | . 081 |
| - FFrom Comolic Elementory Schook | . 524 | . 506 | . 461 | . 099 | . 617 | . 572 | . 021 |  |
| \% Mon-Catholic Enrollment | . 116 | . 094 | . 126 | . 145 | . 120 | . 121 | . 750 | . - |
| SOMOOL CMAMCIERSTICS | ก=140 | $n=11$ | n=17 | nm41 | n=34 | n=84 | no94 |  |
| School Swe | 850 | 767 | 470 | 577 | 502 | 546 | 645 |  |
| \% Annual Tecchers Tumover | . 104 | . 095 | . 149 | 066 | . 128 | . 124 | 072 | - |
| \% Teachers of School 10 Yecrs or More | . 305 | . 313 | . 174 | . 223 | . 147 | 184 | 383 |  |
| Tution ( 1980 ) | \$ 1.101 | \$ 993 | \$ 1,049 | 5 695 | \% 087 | 5833 | - |  |
| Pex-Pupll Expendirure | \$ 1.634 | \$ 4,354 | \$ 1.312 | S 796 | ¢ 1.320 | \$ 9.310 | - |  |
| Suden/feacher Rotio | 20.1 | 19.4 | 15.9 | 18.3 | 18.0 | 17.8 | 17.6 | - |
| \% Teorhers Whi Advanced Degrees | 53.6 | 06.6 | 44.2 | - 37.0 | 36.6 | 42.3 | 40.9 | - - |
| Fant Srep. 1980 Salory Scate | - 8,754 | 8.9.187 | \$8,463 | f 8.365 | 58.069 | 88.635 | \$10.273 |  |
| \% Saudens in Vocotronal Progrom | 023 | . 048 | . 063 | .343 | . 103 | . 102 | . 282 |  |
| \% Sauderis in General Progrom | . 135 | . 187 | . 162 | . 212 | . 109 | - .185 | . 336 | $\cdots$ |
| \% Siudenis in Acodernic Progrom | .844 | . 705 | .774 | . 414 | . 707 | . 715 | . 380 |  |
| sudant gneagement mati THE SCHOO |  |  |  |  |  | $\checkmark$ |  |  |
| Homework. Hss. /Wh | 5.862 | 5.000 | 7.532 | 0.176 | 5.505 | 6.944 | 4.114 | 5.372 |
| Doys Absery in 3 Monihs. Unexplaineri | 2.288 | 2.154 | 8.849 | 2.247 | 2.277 | 2.221 | 3.410 | 3.104 |
| Televtion, Hha /Weetrdoy | 2.676 | 2.323 | 2.090 | 2.538 | 2.918 | 2.454 | 2.705 | 2.428 |
| Reociness for Glas | . 083 | -. 157 | . 127 | . 053 | -. 040 | 0 | -. 026 | . 035 |
| maddence of Discipline Probleris' | 314 | -. 021 | -. 043 | -. 146 | -. 027 | 0 | . 509 | . 328 |
| \% in Leodenhtip Pormions | 539 | . 554 | . 409 | . 417 | . 465 | . 473 | . 468 | . 580 |
| Peer Ammudes fowirds Acodernic: | . 073 | . 069 | . 201 | -. 208 | . 036 | 0 | -. 300 | . 106 |
| Years of Mahemancs Cousses | 3:793 | 3.713 | - 3.365 | 2.748 | 3.199 | 3.189 | 2.066 | 2.899 |
| Yeen of Schence Couses (chembtry. phaydes) | 1.154 | 1.067 | . 729 | . 623 | . 782 | 820 | . 547 | . 888 |
| - Yeans forelgn Longuage Counes | 2.356 | 1.325 | 4.792 | 1.009 | 4.400 | 1.717 | 1.104 | 1.372 |
| Ourcombs |  |  |  |  |  |  | * |  |
| Sentor Achievernery Composite" \% Floming to Grodvaje from College | $\begin{aligned} & 58.5 \\ & 63.3 \end{aligned}$ | $\begin{array}{r} 57.0 \\ 75.1 \\ \hline \end{array}$ | $\begin{array}{r} 56.3 \\ 74.5 \end{array}$ | $\begin{array}{r} 53.5 \\ 44.0 \end{array}$ | $\begin{aligned} & 55.2 \\ & 62.4 \end{aligned}$ | $\begin{aligned} & 55.0 \\ & 6.5 \end{aligned}$ | $\begin{aligned} & 30.9 \\ & 41.4 \end{aligned}$ | $\begin{gathered} 55.0 \\ \hline 88.0 \end{gathered}$ |

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The dota presented in Table 5.1 support the conclusion stated earlier: there are major differences between students in Catholic and public schools. Figure 5.2 shows that these differences are carried over into academic achievement. For example, the average Catholic school senior had 73 percent of the $H S E B$ vocabulary thems correct. In the public school sample, the average was 62 percent correct. The average Cimholic.
Cimposimon of Acodemic Achievament in Catholic and Public Ses ondory Srtums Sunor Year)

LECEND. $\quad$ Averoge Achlevement in Colnolic School Somple
Avaroge Achlavement in Puble School Somple
Averoge Achivemant in Acfurred Public School Somple
school senior had 61 percent of the mathematics items correct. For public schools seniors, the figure was 52 percent. Similar differences were found in reading, science, writings, and civics (compare bars 1 and 2 for each pánel in Figure 5.2).

Caution is necessary in interpreting observed differences. Catholic secondary schools students are slightly more affluent than their public school counterparts: They are also more likely to be enrolled in an academic program (see Table 5.1). While Catholic school students generally display higher levels of achievement, these and other differenoes can bé atrributed to these two considérations. We employed the statistical technique Fnown as standardization to compensate for differences in social class and academic program enrollments. In essence, standardizution provides an estimate of the resulos we would have obrained if the public sample had the same soctal class and academic program distribution as the Catholic sample.

The last column in Table 5.1 preseinus the public school results after adjustment for social ctass and academic program enrollment. The differences are reduced substantially on most background and school engragement variables. Similarly, in comparing the first and third bars for each panel in Figure 5.2, the large initial Cartolic school advantage in academic achievement is reduced dramatically. The academic achevement of Catholic school seniors is nowonly slighty higher than their public school counterparts in most academic areas. In sclence achievemenf, Catholic school seniors are slighty below the adjusted public school sample,

Before proceeding to part two, a disclaimer is in order. The comparisons of public and catholic school students puss presented in their adpus fed and unadjusted form are strictly for descripdive purposes. They are given only td demonstrate a pattern of relationships existing among the factors of interest in this research. There has been much controversy over the adequacy of any statistical method to compensate for prior differences between nonequivalent groups such as students in Catholic and public schools. The standardization analyses presented do nor fully respond to these criticisms. Furthermore, it is not clear thas any analysis of HSCB for this purpose can be immune to such criticisms. We do not offer the standardization analyses nor infend that they be used for purposes of comparative judgments about the relative efficacy of Catholic and public schools.

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 fiscoul mosources.

There appears to be an tdeal school size-nether too large to inhibtt the strong - sense of conmunity discussed in Section 2, nor too small to offer a full curriculum and adequate instructional facilities. Goodiad" suggests an ideal size for a secondary schoot is between 500 and 600 studenss. The currem distributon of Catholic schools is within this range. The resource cqnstraints under which most Catholic schools operate (see fection 7), may push the economic side of the equation in the direction of a larger she. Recent data indicate that Catholic secondary schools are growing larger. ${ }^{\text {s }}$

In general, the organization of fiscal and human resourpes in Catholic schools involves several tradeofs. There are only a few of these schools which can offer all the features of endowed private schools. These tend to run diverse programs on vast, well-equipped campuses with a small school size, low student/faculty ratios, and relatively, high faculty salaries, Most Catholic schools have to choose from among these alternatives in developing their mission.

There are cerrain structural features of Catholic schools that work to their beneft. The emphasis on an acadentic core and the modest range of electives mid imizes the stress on resources. Similarly, most Catholic schools do not have the sopfisticated physical plants typically found in an affluent suburban public school or a financtally independent school.

The most significinn differenciation across schools occurs in the manner they choose to deploy human resources. Boys' schools, for example, arenconsiderably. - larger than girls' schools. They also operate with larger class sizes. When combined whth a relatively high tuition by Catholic school standards, these features allow boys' schools to pay teachers higher salaries. In comparison, giris' religious order schools pay lower salartes. They also are smaller in size and have a more favorable studentteacher ratio. In essence, boys' schools strive for economic efficiency-langer schools focusing almost exclustvely on delivering an academtc program to students in relatively lange groups. The giris' schools, on the other hand, more closely resemble the private academy-smaller schools with smaller classes and a more intimate, personal environment.

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have 10 or more years experience in those schools. The comparable figure for public schools is almost 36 percent. Our analyses indicate a stable faculty is one of the major institutional factors that have direct effects on student achievernent. Further, our field research suggests that a stable faculty core is also essendal ropreserving the traditions of the school and inculcating them to each new cohort of students and teachers. Thus, annual turnover is not negessartly problematic. In fact, it may be benefictal as long as there is a substanisial eore faculyy that maintains the integrity of the academic program and transmies the tradtiton of the school.

The maior impediment to building a stable ficulty core appears to be low teacher salaries, particularly at the top of the salary scale. ${ }^{6}$ Histortcally, religious staff have constituted the stable faculty core for Catholic schools. As a result, the effiects of a lof lay salary schedule were minimal. As the lchools are suffed by more lay persons, low salary schedules become increasingly problematic. In some of the secondary schools visited, the salary scale peaked at $\$ 13,000$. This raises questions about the ability of Catholic schools to maintain a stable lay faculty regardiess of their dedication or their commiment to institutional values. This area should concern all those involved in the governance of Catholic schools. The long term instiutional and fiscal consequences are far-reaching.

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We created and used three measures to gauge institutional quality:

- An overall school assessment based on studenas' responses to survey questions In a range of topics from the adequacy of the physical plant to the quality of schcol spirtt,
- An evaluation of teacher quality based on students' reports about the quality of academic instruction and specific characteristics of their teachers (e.g., level of commitment, potience, and understanding);
- Principals' reports about problems with staff regarding the level of their commiment and absenterism.
While the HSEB sample provides an extensive data base on individual Catholic school studencs, it is a modest sample (84 schools) for examining statistical relationships among school variables. We did conduct various exploratory analyses at this level. The sample size, though, is not suffictent to develop a complete model of institutional quality. As a result, caution ts warranted in interpieting the reported statistical relationships among school variables.

In general, the nature of school climate, including both academic and disctplinary components, is strongly associated with institutional quality. This appears to be a solid finding. In addition to the statstical assoctation of school climate with the institutional quality measures, we also found school climate to be a powerful predictor of students' attitudes, behavior, and academic and co-curricular activities. It even has a modest direct relationshtp with the outcomes of schooling. This is discussed at more length in the next part.












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The effect of schood climate, then, appears to the extensive. For example, the incidence of student discipline problems is the strongest correlate of staff turnover, even stronger than starting salary level. These data seem quite consistent with our field obseryations. This is especially true of our finding that teachers in Catholic schools are willing to make considerable sacrifices to work in an environment that is personally supportive and that has students committed to leaming.




We wanted to determine which aspects of Catholic secondary sctools-their climate, organization, staffing, and resources-might be important contributors to student development. To assist us in this task, we constructed a general model of school effects based on prevlous research in the public sector. The model is pre sented in Figure 5.3. It is different from the traditional "input-output" models typically used in school effects research. These differences are described in what follows.


Itentifying school effects is complicated by the fact that different mpes of students attend different kinds of schools. In particular, the family, perional, and academic hackground of students influences the kind of secondary school that they might. attend (arrow 1 in Figure 5.3). This background also has some direct effect on the students' school performance (arrow 4). As a result, any simple comparison of achieventent levels across schools becomes difficult to interpret. For example, let us compare two schools where achievement is high in one but low in the other. Assume the high achievement school has abundant resources and highly qualified teachers. It also tends to enroll students from more affluent families. On the other hand, the low achievement school has fewer resources. It tends to enroll more disadvantaged children. To what should we atribute the observed differences in achievement between schools? Are we seeing the effects of variations in school policies and resources? Or, are they merely differences that result from the characteristics of students who happen to ateend different schools?

There are other complications. The involvement of students in school life-their attitudes and behavior, the academic and co-curricular activities in which they engage duri.g their secondary years-are instrumental in advancing learning. To preview the argument presented in what follows, students' engagement in the instruagional process plays a central role. How family background and school characteristics affect studens' learning depends largely on the degree to which these factors influence the nature of the students' engagement in the ectucational process. For this reason, the student engagement factor is central to the analytic model presented in Figure 5.3. The various elements which constitute this factor have strong effects on the outcomes of schooling (arrow 5). Further, many of the effects of both family background and school factors on student development work through these elements (arrows 2 and 3).

Thus, to assess the effects of school characteristics on student development involves more than identifying direct linkages between school factors and achievement (arrow 6). In fact, an exclusive focus on arrow 6 is misdirected. Our analyses indieate that much of the effect that Catholic schools have on student development occurs - through a two stage process. ${ }^{4}$ School characteristics influence the nature of studenss' engagement. This, in turn, is the causal factor influencing the outcomes of schooling. Analyically, this requires boxh identifying the important studern engagement variables and determining how' students' background and schoid characteristics influ erce these variables. Thus, in our analyuic model, the focus is on arrows 2,3 , and 5 .
Fortunately, statistical methods such as regression analysis provide some help in sorting out these relationships. ${ }^{4}$ Tbey permit us to take into account that any retationship of interest-eg., the associaton between a school's tuition rates and students' science achievement-may exist within a network of many cther relationshipseg., the effects on science achievement of student's academic background and the number of science courses taken. In particular, the regression technique helps assess the unique contribution of each student background, school resource, and stodent

[^14]engagement variable to each of the outcomes of schooling. This is accomplished while tading into account all the other reladionships present in the data.

Berause of space limitations in this summary document, we cannot fully recount the details of all analyses undertaken. Instead, this presentation is organized around three questions. The answers to them constitute the core of our findings. These questions are:
© How do students' backgrounds influence the type of school they attend?

- How do students background and school characteristics combine to influence the nature of students' engagement in the school?
- How do background, school characteristics, and student engagement factors combine to influence the outcomes of schooling?
Before answering each of these questions, a caveat is in order. Statistical analyses search for relationships among individual variables. They address questions such as, "Is the tuition level associated with mathematics achievement after controlling for average differences in famity income across schools?" From a substandive point of view, however, we are often more interested in assessing the strength of the relationships among the constructs-e.g., what effect do school fiscal resources have on academic achievement? While statistical analyses can be quite pelpful in establishing associations among individual variables, drawing conclusions about causal relatiopships among constructs is a very complex teask. It inevitably involves at least a modest degree of interpretation and inferefrce. It is in the latter regard that we rely substandally upon our field observations. Without them, we would confront an extremely complex and sometimes confusing set of statistical relationships without concrete experiences to guide interpretation.

Our first set of analyses on this issue sought to identify the distinctive characteristics of students who attend the inve different types of Catholic schools discussed earlier. Discriminant analysis was the statistical technique employed for this purpose. It assisted us in separaring two factors which are at work here. The first was social class. This identified a group of relatively affluent students more likely to come from public elementary school. For these families, the tuition involved was less of a financial sacrifice. These students are most likely to be found in boys' religious order schools and least likely to be found in girls' non-religpous order scherols.
The second factor focused on a religious dimension. It idendifed students with the following characteristics: those who express pasitive views about religion; those from larger families; those less likely to be minority and more likely to be Catholic; those who aterided Catholic elementary schools. These students are more likely to be found in coed schools than the single-sex schools.

In addition to the discriminant analyses, regression techniques were used to examine the relationship of family, personal, and academic background to various school level constructs-scheol social class, disciplinary, academic and religious climate, and fiscal and human resources. The findings are displayed in Figure 5.4. Each colamn idendifies the characteristics of students most likely to be found in a particular school. For example, females, students from higher social class families,
and those from familier where tuition entails a greater degree of financial sacrifice are likely to attend schools where the incidence of discipline problems is tow (see the second column in Figure 5.4). Blacks, however, are less likely to attend schools of this type. In general, the " + " and " -" signs indicate the direction and magnitude of the relationships berween student background characteristics and school characreristics where particular students are mone ( a " + " sign ) or less ( a " - " sign) likely to be found.

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A pattern of results emerged from the regression and discriminant analyses performed on the $H S E B$ data. Higher social class and a greater degree of financial sacrifice predicts attendance at schools with a stronger academic climate and emphasis, a kow incidence of discipline problems, relatively high levels of fiscal and human resources, high academic achnevement, and high perceived institutional quality. In general, students from public elementary schools are more likely to choose these schools. On the other hand, there are different variables associated with selecting schools with a strong religious climate: Catholic elementary scheol experience, personal religiousness, being Catholic, female, and Hispanic, and coming from a large family.

Regression results also indicare sêx differences in selecting a Catholic secondary school. Boys are slightly more likely to attend stronger academic schools. Girls are more likely to enroli in schools with a strong religious climate and fewer discipline problems. These results suggest that families apply different criteria in selecting a secondary school for their children. The emphasis is academic achievement for boys, and a safe social environment for girls.

57

The relative influence of school and background factors on a student's engagement in the life of the school depends upon the student variable in question. Figure 5.5 presents resulss from a sample of four student engagement variables: number of science courses taken (an academic program variable); amount of homework done (a measure of academic behavior); leadership positions held (a measure of $\mathbf{0 0}$ curricular involvement); student's interest in academics (an academic attitude measure). We illustrate the results for these variables because eaph is an important i........predictor of academic achievement. Further, as a set, these restilts represent theobserved vartation in relationships.
'In Figure 5.5, the width of the arrow and the numbers attached to therm indicate the relative strength of each construct's influence over the student engagement variable. For example, academic background has a strong influence on science course enrollment (relationship strength of .073 ). ${ }^{\text {0 }}$ Social class and school resources also make substancial contributions. In terms of interest in academics, the strongest influence comes from academic climate (relationship strength 048 ), followed by family structure (relationship strength .035).

Family backiground, espectally religiousness and social class, and the degree of parental involvement with their child's schooling, have substantial effects on academic atitudes and behavior. School factors other than academic climote have

- ophtemodest influence. School resources, however, play a more substantial role as we 1 chison academic course enrollments and students' engagement in various co-curticular activities. Academic background plays the strongean role in predicting course enrollmants. On the other hand, tamily background, particularly parental involvensent wth the school, is the strongest predictor of the student's engagement in various cofurricular activities.


[^15]



NOIE: Numbers represent the unique percent of vartance in the ouncome explotred by each constucr. Width of arrows is proportionot to thot percemage. Percent of explained veriance in each model is as follows

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| .Homework | -182 | -Leodershlp | .095 |



The Effects of student Hackground, School Characteristic:s, and students" Engagement Factors on Student Developmem

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We wanted to compare the relative efiects of background, school, and student engrgement factors on student developmery To do this, we conducted parallel analyses using the same aprlytic model for academic achievement (sophomore and senior year), affective and-soctal development (a compostite across the two years), and college orientmion (senior year only). The results are displayed in Figure 5.6. The width of the arrows and the numbers atached to them indicate the reladve strength of the relationship between any two factors. For example, baciground has a sive wble effect on sophomore academic achievement (nodice the wide arrow, whith a value of .147 in Panel $A$ ). It has a greatly reduced efiect, though, by the sentor yeir (the comparable arrow in Panel B is much narrower and has a value of only .025.)

The nypor difierenoe between models for sophomore and senior academic achievement is that the sentor model includes dota on courses then and 00 curricular activites. Boch, particularly courses miken, have powerfil effects on academic achievement. Since teaching courses ts the major activity of a school, there is a cermin reassuring simplichy in this finding.

The role of personal, family, and academic background, powerful in predicting sophomore achievement, is greaty dimintshed once we account for the school activities of suidenas. While baciground has less of a direct difect on achievement, it continues to play an important role through its influence over how sudents engage in school life. In fact, the strength of the relationship increases from sophomore to sentor year (from .043 to .064). In addition, as noted earlier, baciground influences the sype of schoot attended (a relationsitip strength of .105). This, in turn, influences student engagement (a rehationahtp strength of 047 ).

Results for the college orientation outgome are similiar to those for predicting senior academic achievement. The factor conststing of studens' atutudes, behavior, and course enrollments is again the most important (a relatonship strengih of .133). The direct efiects of schook on college ortentrition (a relationship strength of .015) is somewht diminished relatve to the effects of background (a relatonshipstrength of .020).

The pattern is quite difienent in the soctal and affective aren. Personal, fmily, and academic background has the largest direct effect (relationshtp strength of .060) on these outcomes. In addition, background has a substantial indirect effect through tus fi fluence over the school type strended and the nature of students' engrgement whith that school. While the effects of suidens' athtudes, behavior, and course ennollment are diminished, they remain substantial (relationship strength of .055). The efiects of school charactertstics on soctal and affective development are modest. They wofs primarly through thelr inftuence over studients' attumes, behavior, and involvemeft in academic and co-curricular activities.

Figunes 5.7 through 5.10 summarize the results of the regression analyses for each ourcome area: academic achievement in the sophomore (Figure 5.7) and senior (Figure 58) year); college ortentrion Figure 5.9); social and affective development (Fgure 5.10). Each column identifes the student backeround, school characterlotios,

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and student engagement variables that influence some aspect of student development. As noted earlier, the'" + " and " - "signs indicate the directionand magnitude of. the relationships of background, school, and student engagement variables to each of the schooling outcomes. Factors associated with positive student outcomas are marked with a " + " sign. Factors that indicate less development are marked with a, "-"sign.

Sophomore academic achbetement. Academic backyround and sicial class for both the student and school have a subseantial direct effect on most areas of sophomore academic achievement. The degree of financial sacrifice required for a student's attendance at a Catholic secondary school ts also an important predictor of
 Achievernent (Sophomore Year)

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FCURE 5.9. Aspects of Badkground, School, and Student Engagement That Are Relaned to Colliege Otemation

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## FIGURE 5.10. Aspects of Background, Schools. and Student Engagement That Arin Related to Social and Affective Development

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academic success. In both the sophomore and senior year, a pattern of hagher achlevement can be expected from students winuse families expend a larger percentage of income for tultion.

Sudens' use of time is also important. Students who spend a great amotunt of dime watching television or who have unexcused absences from school or other discipline problems generally have lower jevels of achievement. On the other hand, an interest in academics and more dime spent on homework conaribuse to academic success.
A number of school factors also need to be considered. Larger schools with more stable frculdes, an absence of staff problems, and a positive disciplinary climase where sudenss feel safe all seem to foster higher achlevement. Academic achievement in some areas, particularly in mathematics and science, is usually lower in schools that use abiliny grouping. These differences persist through senior year. There are also effects of race,.sex, religion, and etementary school experience on selected academic outcomes. Each of these will be discussed in a subsequent section of this report.

Sentor academic actlevement. By senior year, the picture has changed. The most importran conortbutors to acaderic achievement are students'scademic courses and co-curricular actuties. More mashemides and science courses as well as enrollment in an honors programs have a strong positive effect on achievement across all areas. Enrollments in vocational courses and remedial programs predict kower levels of achievement. Executive and leadership experiencé, such as speaking before a group or presiding over a school club, are all associated positively with achievement. Athledic partictpation, however, has a negative effiect.

By senior year, the effects of studenas' antudes and their use of time are drminished substantially. We surmise not that these considerations are no konger. important. Rather, their effects are manifested nrough actual academic and cocurricular school actistives. In addition, for students who continue to have disctpline problems a lower pattem of achievement can be expected

The effects of school factors remain relatively constant from sophomore to senlor year. Again, a postitve disctplinary climate contributes to high achievement. Senior achievement levels also appear higher in schools with more stable staffs and higher 'tuttons. These findtings prowide further support for the argument, inmoduceed eariler, that the qualtiy of some Catholic secondary schook appelars to suffer because of limited fiscal resources.

Sudent-teacher rados and the amount of scheduled instruction, two other school features of considerable inverex, show no consistent patiem in the HSCB dapa. Thls should nor be interpreted as indicating these features do not affect student achievement. The problem here is analytic: these vartables are confounded with school type. For example, boys' religious order schools have less scheduled instruction and higher student-teacher ratios, but also have higher achievement. The latuer is due in large measure to the stronger academic and family background of studens who atrend these schools. While statistical methods are mitended to spectify struccural relationships from spurious ones, this is not atways possible given the limitations of a data set. This is one of those occasions. ${ }^{11}$ We believe the HSEB data cannot clarlfy the real effecus in this area.

Collegs ortentanior. The student's soctal class and the social class of the school is a strong predictor of aspirations for higher ectucation. Academic background also

[^16]contribures substantially to both educational aspirations and the student's selfassessment of coliege ability. The remaining background and student variables play a modest role in explaining college orientation.

Strorigly assơctimed whth college orlentation are the ways students use their time as well as thefi co-curricular and academic activites. More time on homework, less dme in paid work, less absenteetsm, and fewer discipline problems are assoctated with aspirations for higher educatior: dnd students' assessments of their ability to complete college. This is true also of kezdership, executive experiences, and participation in athletics. Finally, enrollment in an honors program and more mathemadics and science courses conaribute in litep fashion.

Sucial and affective development. Seatistical analyses of these outcomes show lers explanstory power than for the other' outcome areas: This is due to the dufficulty associated with obraining good measures for these conssructs and to the fact that the phenomena of interest may be less stable. In addidion, the results of our analyses are less consistent across the specific outcomes because the variables in this domain are not strongly related to each other. Since there are few patierns here, our summary. commens are selective.

Parents' involvement with the school and with their childrens' academic endeavors has strong effects here. When panentat engagemient is high, students report a stronger sense of control over that cnvironment, a niore positive self-concept, a stronger communtry and family orientation, and more tradtional attitudes about women's role. More religious studens display similar patterns on the community, family, and women's role vartables. In general, all of the family structure variables-one- vs. two-parent families, family size, and'home ownership-play significant roles in predicting community and family orientation, ànd astitudes toward women's role.

There are also substandial sex and race differences on these outcomes. For example, girls have a higher sense of coitrol over their environment, lower self-concept and community orientadon, a stronger sense of family, andare ruuch less supportive of a traditional role for women. Blacks, too, are higher on locus of control, self concept, and community orientation. They are less ontented; however, toward famity. Finally, they display less traditional atditudes about women's roles.

The student amoude, behwior, and academic course vartables are important predictors in the soctal and affective areas. The specific variabies that are tmportant, though, depend upon the paricular outcome. Finally, several important predictors in. other outcome areas have a reduced role here. These include academic background, elementary school experience, the level of ftnanctal sacrfice, and social class.

Gathes in achieurment and college orientation from sopbowowe to sertior year. In. addition to the analyses described above, we conducted a brief investigation of the factors associated with gains from sophomore to senior year in academic achievement and college ortentation. ${ }^{11}$. We looked at these data in three ways. The most direct approach was a simple gains analysis: the sophomore score is subracted from the senior score to create a measure of individual gain across the two-year period.

[^17]This gatn measure was then treated as an outcome variable in a regression model Idendical to thise employed on the separate sophomore and senior nutcomes. ${ }^{4}$ ? In addtion to simple gains, we compused gains in a transformed metric. The technical details here are somewhat complex. is we note, however, that the transformed gain involves an adpustment in the observed gains to compensme for some statstical problems associated whit the simple grin score. These transformed gairs provide a more conservative source of evidence for the argument that follows. Ahind approach was also employed. It enters the scphomore score as another predictor vartable in a senior-achievement model. The resulas are quite similar to the transformed gains analyses. We will not summarize them separately. The interested reader is referred to the technical report for more details.

[^18]Changes in achtenmentent and college orientution" from sophenmore to semior yevar present a cromplex pariern. Accidemic course of stucly contrihutes: smbivamtically to gains. A frastitie ctratemic chmate. a low incthence? of discifinine probhlems. and mufer sthert resourters alson cometridace.
Inconselamentidel are accuctemA rand wocial chass hreckerounditund the seckal class of the school; gur reswits sagke:st that in some arecus. the morr distallantesgen stindems urye mosking the biguest scrisus

The patterns of results displayed in Figure 5.11 is complex. It suggests that the influences of scthool and background are.competing with each other. In part, they cancel each other out. Some results are identical to those already noted earlier. For example, enrollments in science and mathematics coutses are strong predictors of gains across all academic areas. A few variables previously not related strongly to achievement are now more influential. For example, there are stronger negative effects on academic achievement and college aspirations for students who work while in school. On the other hand, academic background, the student's soctal clase, and the soctal class of the school do nor appear to be of any consequence. In fact, there are indications if is the more disadvantaged students who make bigger achievement gains in several outcome areas. We find students with discipline problems in their sophomore year making larger gains in science and mathematios. In addition, suudents reporting weak interest in academics as sophomores make larger gains in vocabulary. Thetr ectucational aspirations also increase disproportionately. These results are also evident in the transformed gains analysis, a very conservative estimate of gain for those who sart out low.

In loodding at school factors, we find that the academic and disciplinary climate of a school are also assoctated whth academic gains. The level of per-pupil expenditure contributes to both academic achievement and college orientation. Academic tracking is negatively retzted to gains in vocabulary, mathematics, and writing. Atthough there are some inconsistencies, ${ }^{\text {8 }}$ the effects of schqoi-level variables on academic gains are similar to those found in analyses of senior year achievement.

[^19]FIGURE 5 11. Aspects of Bockground, Sct.ools, and Student Engagement That Are R.itated to Sophomore-to-Senior Gains

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Thus far, our remarks focus on 'identifying hasic structural relationships among background, school resources, student engagement, and the outcomes of schooling. We now provide additional detail on selected findings that we believe are of broad interest.


- crandary vilumen

Both Coleman, et al. and Greeley conclude that social class is much less strongly associated with achievement in Catholic than in public schools. This finding is salient particularly when viewed from the perspective of equality of educational opportunity. In simple terms, academic achievement in Catholic schools depends much less on the background that a student brings to these schools.

Since our analyses focus on factors that influence achievement within Catholic schools, the attention.devoted to Catholic-public school comparisons is limited. Nevertheless, our research on the reladionship of social class to achievement across public and Catholic schools provides further empirical support for the findings just cited. ${ }^{17}$

We concentrated in our research on attempting to understand the ways in which social class influences ächievement in Catholic schools. An important finding is that the nature of the influence seems to shift over the course of the secondary years. The results displayed in Figure 5.6 indicate the direct effect of background on achievement is reduced substantially between sophomore and senior year. The strength of this reluionship in senior year is only one-quarter the size of the sophomore year. This lessening of the direct importance of background factors is also true for th various components including soctal class. The results of our change analyses provide further corroboration. On several achievement and college orientation outcomes, the largest gains accrued to the more disadvantaged students.

Figure 5.12 displays the regression model estimates of the direct effects of social class on each of the six areas of academic achievement. These represent the achievement differences that might be expected in comparing two students alike in every respect except class-one is lower-middle ctass, and the other is upper-middle class. ${ }^{38}$ The helght of the bar indicates the stze of the advantage that accrues in the latter case.

Each painel in Figure 5.12 provides three estimates of the social class effect. The first ${ }^{\text {. }}$ bar in each panel prowides the estimated effect in sophomore year. The second bar in each panel provides the estimated effect in senior year before we account for studens' course enrollments. The third bar in each panel provides the estimated effect under the full senior year model wth courses phen.

Summarizing across the six academic areas, the average direct effect of social class on sophomore year achievement is .21 standard deviation units. This increases

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> Sophomore year model. whow couses 6 co-cuncutor octivtilies.
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slightly to .23 standard devtation units in the senior year model which does not include students' course work. When the academic activities variables are considered, the direct effect of social class on achievement falls to 09 . This reduction occurs in all academic areas.

The results in mathematics are particularly interesting. Notoce the direct effect of social class on mathematics achievement. It actually increases from 08 in sophomore year to .29 in the senior year model that does not include the academic course variables. When these variables are included, the effect size drops back to .08 . We see a similar but weaker version of this pastem in science achievement.

Recall that we noted in Section 2 that only two years of mathematics are usually required in Catholic schools but that some students take as many as five years. In fact, both mathematics and science are areas in the Catholic school curriculum where there is a fair degree of choice. Where choice occurs, however, the effects of social chass loom larger. In particular, our analyses indicate that soctal class has a strong effect on the number of mathematics and science courses taken. These in turn have strong effects on mathematics and science achievement.

In general, however, much of the curriculum in Catholic secondary schools is a required academic core (see Section 2). As a result, this is a substantial constraint placed on the mechanism by which social class differences transtate into achieviement differences--higher social class students choostng a more academic course of
study. These results are salient because academic policies, eg., course requirements, are in lagge part under the control of schools, Catholic or public. In essence, much of the total effect of soctal class on achievement works through facpors that can be partally controlled by schools. They are, in eact, being controlled by Catholic schools. ${ }^{\text {at }}$

Since soctal class has an influence on the type of school amended, it does influence achievement in Cacholic sehools. As we indicated previously, more affluent students are likely to attend schools with more academic emphasts. Nevertheless, inside the school the effect of a student's social class on suudent achievement is greaty reduced. Our preliminary investgations indicate that the relationship strength between soctal class and achievement in a randomly selected Catholic sinool is only one-quarter the size of that within a public school. ${ }^{\text {so }}$


#### Abstract

19. On babince, ts could be argued that the diminushed redatonstap berween socinl chass and whicrempent results  suppor for this hypothexts. The degree of finang/al sacrifice maxhed so Cahollc school mendence ts neemed to    effed of soctil chass eo schievemeix from sophomore to sentor year. We would need son explanizion for the sentor year diffierances than did nor rety on course entrollments and could explan, in fact, the effects enooumbered there. If would seem than a complex aggument would be required. The one presented in thas summiny is for stmpler. it is conststens with of of the empldical evidence avaluble to us. 20. This potat is argued vigorousty by kohn Goodiad, ap ch.


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Figure 5.13 illustrates sex differences in student achievement. The first bar in each set represents the observed average difference in achievemeft between males and females in Catholic schools during their sophomore year. Achievement for girls is slightly below that of boys in vocabulary and reading. It is significantly beiow in mathematics and science. On the other hand, girls are slightly higher in civids and significantly higher in writing.
The second bar in each set represents the observed male-female difference in achievemeint durtng senior year. In general, the senior year differences follow the same pattern as the sophomore year. They do tend, though, to be magnified slightly. For example, the girls' disadvantage in mathemadics and science has increased but so has their advantage in wrting.
The third bar in each set represents the estimated male-female difference based on the full senior year model. The latter includes the fact there are stgnificant sex differences in school attudes and behavior and courses taken. Girls display greater interest in academics and spend more time on homework. They are also less likely to have discipline problems. Boys tend to take more mathematics and science courses and fewer business courses. After adjusting for these differences for atitudes, behovior, and courses, achievement in vocabulary and reading is nearly identical for boys and girls. The girts' advantage in writing and civics remains virtually unchanged. Their disadvantage in mathematics and science is halved.

Examination of the regression results indicates that the number of mathematics and science course talcen plays a major role here. Approdimately half the senior year differences between boys and girls in mathematics and sclence is the to boys taking

FIGURE 5. 13. Sex Differences in Academic Achievement


NOTE: Bars below ite ine indicate a male advomage; bans obove the ine indicane a female odvontage.
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Femole-mole difierence estimated under sentor year model. -
more courses in these areas. Stgnificant sex differences in achievement remain. These do not appear attributable to differences in course enrollments. The discrepancles are similar to those found in research on sex differences in public schools. ${ }^{21}$

[^21]
#### Abstract

We found no major differences between boys and girls on college oriencation. While boys have slighty higher college aspirations, the difference disappears when all the relationships within our regression model are included. In the affective and social areas, girls have a higher locus of control and a lower self-concept. They are also less community oriented but more family oriented. The observed differences here and the differences estimated under our regression model were statstically significant. Finally, girls are much less likely to affirm a tradittonal role for women, a result now described in more detail.


Stidents Views About Woment Role

In order to assess students' views aboun the role of women in society, we created a compostre measure from their responses to three survey items:

- A woriding mother of pre-school children can be just as good a mother as the woman who doesn't work.
- It is usually better for everyone involved if the man is the achiever ouside the home and the woman takes care of the home and family.
- Most women are happlest when they are making a home and caring for children.

General public-Catholic comparisons show litile difference on this variable before or after statistical adjustment. Comparisons between types of Catholic schools do show striking differences: the single-sex schools diverge sharply from one another. Studehts in all-girs' schools tend to support women worling ousside the home. Those in all-boys' schools hold more tradttonal views. Students in girls' religious order schools are especially strong in affirming that it is acceptable for women to seek careers ourside the home. Sudents in boys' non-religious order schools lean strongly in the oppostre direction. The two types of schools differ from one another by more than 80 standard deviation units (see Flgure 5.14). This is considered a very large effect by most social sclentists.

These differences across schools reflect in large measure general sex differences in responses to these questions. These school differences are amplified further by vartations across the five school types in a wide range of student characteristics.

Catholic high school studencs' autitudes toward the appropriateness of women working outside the home differ markedly for males and females and also blacks and non-blacks. Females and blacks are much less stereotyping. Students of lower soctal class background stereotype more, as do students from larger families, especially two-parent familles. Achletic participation and remedial program enrollment are also associated with sex-role sterectyping. Finally, students who are more religioushy oriented also tend to talve a traditional view of women's role.

Our analyses indicate these sex role attitudes are likely to be formed before students enter high school largely as a result of home environment and family structure. The fact that students from two-parent families and larger families seem to hold more tradtrional views suggests that traditional family background engenders traditional sex role values. While our field work suggests that individual schools can influence this area, HSEB does not provide adequate data to explore atitudinal formation. We continue to investgate these differences in atitude in our research, particularty as they relase to single-sex schools.

FIGURE 5. 14.

Differences in Attitudes About Women's RoleAcross Types of Catholic Secondary Schools



NOTE: Bars above the tine indicate support for a traditional women's role; barns below the fine indicate opposition to sex rote stereotyping. $\qquad$


science Achievement in catholic schools

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Different patterns emerge when comparing science achievement with the five other achievement areas tested in $\operatorname{HSEB}$. Recall that earlier we compared Catholic and public school students' senior year achievement. We observed it was only in science that the adjusted mean for public school students was slightly higher than for Catholic school students. This difference is larger in the sophomore year. After adjustment is made for social class and academic program differences between Catholic and public schools, public school sophomores averaged 63 percent correct responses and Catholic school students 58 percent. By senior year, the public school advantage diminishes to $2 \%$ ( $67 \%$ vs. $65 \%$ ). Figure 5.15 documents the advantage of public over Catholic schools in the area of science achievement.

Our results point to Catholic elementary schools as the main cause of this discrepandy. Stents who attended public elementary schools have higher science achievement as sophomores than those from Catholic elementary schools. This

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difference persists through the senior year. Section 6 of this report offers more demil on how the type of elementary school attended, affects academic achievement. In brief, it appears that Catholic elementary school students arrive at the secondary level substantilily disadvantaged in science. Our field reseanch suggests elementary schools have limited resources. This resource limitation is most acute in the science area where expensive laboratory space and equipment and more highly trained faculty are required. Further, the organization of Catholie schools as kindergarten through grade 8 combined with their small stae contributes to the problein. The department onganization and, more importantly, the additional resources typically available in a public middle-school structure are distinct advantages for science education. While there are certain benefits to each organizational structure, small Catholic elementary schools appear disadvantaged in the area of science instruction.

Some evidence also suggests that science education is also a problem in some Catholic secondary schools. There is often less emphasis on science in smaller schools with fewer fiscal resources and lower school social ctass. This is the same constellation of vartables that led us to conclude fiscal constraints were derracting from the institutional quality of some secondary schools. It appears these constriants are taking heavy toll in the area of science.

If Catholic schools are to maintain high. academic achievement in all curriculum areas, serious attention needs to be given to the science curriculum and factlities at both the elementary and secondary level.

Section 6 Elementary Schools

# ELEMENTARY SCHOOLS 

This chapter reports our findings on Catholic elementary schools. This part of our investigation was designed as a substudy whthin the overall research plan. It provides an opportunity to examine the relationships between Catholic elementary and secondary sthools. It also offers another perspective from which to view the secondary schools.

During the spring of 1983, we conducted field research in 13 Catholic elementary schools that sent stgnificant numbers of their students to the secondary schools in our sample. This field investigation was comparable to the first round of field research that we conducted at the secondary level in the fall of 1982. As in the latter case, our purpose was exploratory and descriptive.

The 13 schools in our elementary school sample were founded over a long period, between 1829 and 1973. Some began in the latter part of the nineteenth and early years of the twentiech century when European immigrants moved into the ctiles. Others began in the 1950 as large numbers of Catholics started to move into the suburbs. The most recent schools evolved in the early 1970s through the consolidation of several schools into a single institution spread over several locations. Thus, our sample reflects three general phenomena that occurred in the foundation of Catholic schools: early immigrant schools, schools that mushroomed during the post-World War II suburhan expansion, and recemt consolidations that followed the contraction of financially troubled urban schools.

Our investigation focused primarily on the seventh and eighth grades. We observed classes and interviewed teachers, particularty in the areas of language artis and mathematics. We also interviewed school principals and the pastors in the supporting parishes. Both groups were helpful in providing us with a variety of data about the school, such as test scores and firancial information. Over 500 questionnaires were collected from parents who had. children enrolled in the eighth grade across the 13 schools. These questionnatres offer basic descriptive dita on studenss and families, and on the factors that influenced parents' choice of a secondary school for their child. The latter topic will be reported separately at a later time.

In addition, Higb Sohool aend Beyond collected information on the type of elementary school attended (public, Catholic, or other private) In 1982. Unfortunately, we know nothing more about the schools thon their type. Nonetheless, these new data are a unique source of information on the transtion of students from elementary to secondary schools. From the point of view of elementary schools, HSEB represents a longterm follow-up on the effects of the type of elementary schools attended. The results of our analyses of the HSEB data that bear on elementary schools are reported at the end of this section. citheols uwitisted.

Like secondary school curricula, the elementary schools' curriculum emphasizes an academic core taught in a highly tradtional manner. While we observed a wide variety of classes in boch the seventh and eighth grades, we focused primarily on language arts and mathematics. Each of these is considered in what follows.
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language arts. Language arts teachers emphasized grammar-parts of speech, sentence structure, verb tenses-vocabulary, and composition. Their teaching methods involved drill work, sentence diagramming, short-answer questions in class, and regular homework. As one teacher noted, "The students have not goten into literature this year. We have concentrated on grammar, sentence structure, and paragraphs. They have also spent considerable time on sentence diagramming." We rarely vistied a language arts class whout seeing students at the board diagranaming sentences, taking short quizzes on vocabulary words, or reviewing sentences to identify parts of speech.

In one more advanced eighth grade English class, the students reviewed the mythological stories of Zeus, Poseidon, and Arachne. The teacher discussed the Greek nodons of the prowess of the gods and goddesses and showed how literature used these themes. The homework assignment was particularty inventive: "Write a one-page original myth that digs into your myth repertoire to explain something in today's world that youxdon't understand." Classes of this sort, however, were quike unusual in the elementary schools we visited.

Mathematics. We generally observed eighth grade students working on percentagrs, decimals, multiplication and division of four-digit numbers, and graphing. In one school, we saw a great deal of consumer mach: interest rates, profit margins, discounts, and sale pricing. In another class, the concept of ratios-and how to use proportions and cross products-was trught in didactic fashion to the class as a whole. In an effort to ensure that every student grasped the point, the instructor became somewhat repetidve at times.

In perhaps the best eighth grade class we visted, the teacher began with a warm-up drill, in which she held up a card with a column of numbers on it. She lined the class up in two teams. The first student in each line would add the numbers and then perform an operation given by the teacher,-eg., "suburact 40 from the sum." As soon as one student had the correct answer, she would hold up another card and direct the next pair to sum the numbers and perform the operation. The students were very involved in this activity. After using this drill for ten minutes, she reviewed the previous night's homework and then taught a lesson on how to solve for a variable by using two operations. For example, the students solved equations such as $5 y-23=14$ and $w /(-4)+3=6$. After working with the students in this way for.about 20 minutes, she assigned several problems from the sexthook for homework, which the students began during class. Student engagement remained very high throughout this pre-algebra class.

Based on our examination of student test scores and the general level of comprehension in the classes observed, we wonder whether the most talented students were being challenged sufficiently. We found very few instances where algebra was offered, although it is a fairly standard course for at least a portion of public school eighth graders. Further, several of the classes used textbooks that appeared to be aimed at the lower and middle sections of the class.

Our observations in this area highlipht a more general problem in curriculum management for some Catholic elementary schools. Mos of the mathematics classes we visited contained between 25 and 35 students. In the absence of teaching support such as classroom aides, individual instruction becomes very difficult. As a result, there is a natural tendency to attempt to move the whole class along at a relatively uniform pace.

This problem seems likely to be exacerbated by a movement to one class per grade level, which we observed in several of the schools we visited. When combined with an open admissions policy, at least for children within the parish, it creates classes at
each grade level that are quite diverse accademically. This diversity can become so excreme as to tax the abilities of even the moss proficient teachey. For example, one eighth grade that we vistted had five students in the 120-1301.Q. nlnge and four in the range below 80 . How to organize this class of 31 so that all are well served remains an issue.

Compared to public school systems, there is considerably less coordination among Catholic elementaty and secondary schools. At one stie, we found an elementary and secondary school sharing a building, but even bere contact between the schools was limited. In general, we were surprised by how litule academic coordination existed across the elghth and ninth grades (i.e., the traditional boundary between elementary and secondary Catholic schools). This serves as a great divi' for both schools and studenss. We encountered only one case of cross-registration where a few eighth grades students were talking an algebra course at a neighboring secondary school. Given the questons raised above about the ability of some Catholic elementary schools to provide adequate depth of cyrriculum for ghe more advanced eighth graders, the Catholic high schools, often literally next doors seem like an important opportunity missed.

Similarly, elementary school teachers report they have few opportunities for contact with their secondary school oolleagues. They thought more discussion of curriculum matters across the eighth and ninch grades would be benefictal. Here too, we heard of only one such instance in which a secondary school sought to remedy some inadequadies in the mathematics background of the students it recelved. Many teachers and administrators felt more opportunities for dialogue would be valuable. Several suggested that the diocesan education office would be the logical agency to initiate such efforts.

We suspect that our findings here are quite general. Since we selected elementary schools that were feeder schools to the secondary school sample, we probably encountered more opportunides for insthutional linkage than are typlal. We have several cases wthin our sample where the elementary and secondary schools are staffed by the same religious order. These elementary schools normally send a significant number of students to the high school. Yet even here, program coordina: tion was quite limited.

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In general, governance structures for elementary schools varied considerably across the sites we vistred. Many had school bioards, some had finance commitees for the school, and still others had parish councll education committees with school responsibilities. The layens of responsibility for the school were confusing at times, not only to us, but also to the members of the comminees. While many formal structures exist, what emerged in our interviewing was that the most important person in the governance of the Catholic elementary schwol remains ihe pastor of the parish-and this has not changed since the Third Plenary Council of Baltimore in 1884. Deference to the position and perspective of the pastor ranks as the single most prominent feature of elementary school governance.
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In most of the schools we visited, the pastor exercised control with caution and sensitivity. Yot this strong reliance on the suppon, energy, and vision of one person-the pastor-caused us some concern. Sinde pastors transfer positions fairly regularty, the planning and care for the school can fluctuate with each change. The pastors we interviewed supported strongly the elementary schools in their parishes. What will happen though, when such a pastor retires or leaves the parish, and the successor is pertaps not so knowledgeable and kindly disposed to the" school? These govemance concerns, and their effect on both elementary and secondary schools, are further elatorated in Section 8.

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Minority enrollment in Catholic elementary schools has grown steadily over the past decade. National data indicate that in 1982, blacks constituted 9.4 percent of Catholic elementary school enrollment, up from-5.1 percent in 1970. For Hispaniss, enrollment has grown from 5.3 percent to 9.7 percent over the same period. In large urban areas the figures are substantially higher: in 1900, the minority enroliment in the New York City archdiocese was 53.2 percent, and in Chicago it was 46.4 percent. ${ }^{1}$ Many schools have undergone a rapid transition within the last ten years, from all white to either racially integrated or all minority. Such rapid social change invariably produces some conflictr. How these conflicts play out for Hispanics and blacks in Catholic elementary schools is discussed now.

Hispanics. We visited three schools whth lange Hispanic enrollment. In general, pastors and principals in these schools were making strong efforts to integrate the Hispanic families-almost all of whom are Catholic-into the life of their pardshes and schools. The pastors told us about special Spanish Musses and Hispanic cultural programs they organized for these partshioners. For example, at SL. Martin's the pastor prepared himself for ministering to the Hispanics by studying Spanish and by participating in several workshops on Latin American culture and issues. He is adso sponsoring a young Hispanic member of the parish in his studies for the priesthood.

There are some tensions in parishes such as St. Martin's over the increasing attention given to the new Hispanic members of the parish. According to the pastor, some of the older parshioniers of European origin have expressed resentment about the time and energy he is devoding to the Hispanics. They formerly dominated the partsh and still contribute a disproportionate amount to the financial support of both the parish and the school. Conflicis of this sort seem likely, given the nature of the transtition that is under way.

[^22]

Blacka. The situation with blacks is different. Only 44 percent of the blacks enrolled in Catholic jelementary schools are Catholic ${ }^{2}$ In fact, urban Catholic elementary schools with over 50 percent non-Cacholics are not uncommon. Further, Cibulka ef al. have documented the primary reason blades choose these school is nox religious but academic. The problem is particularty delicate in elementary sctools because of their financing mechanisms. As discussed in more detall in Sections 7 and 8, the vast majorky of elementary schools are supported by individual parishes, which continue to subsidize them at a substantial though declining rate. In some of the parish schools we vistted, the older, more affluent white parishioners are effectively underwriting the costs of educading non-Catholics in their schools.

It is here that the question of mission becomes key. Traditionally, elementary schools have defined their primary mission as serving the Catholic students in their parish, perhaps extending it to Catholic students in nearby parishes that have no school of their own. As this pool of students has dectined in several of the sample schools, the latter have reduced class size or cut backion the number of sections per grade. This policy effectively excludes some black families who might ocherwise have supported the schools. The dominant force here is parish finances and prlorities. In particular, the parish subsidy for the school can be elther stabilized or reduced by reducing the number of students served. Thts policy also means that parish monies are conoributed ptimarity to Catholic students from the parish.

Other Catholic elementary schools within our sample, however, choose to redefine their mission in broader, more ecumenical terms. In these parishes, the school is viewed as for all those parents and students who will support them. Parishes see this as an opportun'ty to extend the work of the parish beyond traditional limits. The school provides a particularly appealing vehicle for addressing community, and social justice concerns: It can also advance more traditional ends, such as encouraging non-Catholic students'and parents to become more familiar with the beliefs, sacraments, and traditions of Catholicism.

The financing of elementary schools that enroll significant numbers from outside of the parish remains a delicate issue. Many of the sample schools have different tuition: :es for parishioners and non-parishioners, which gives at least the appearance if not the reality that the parish subsidy flews only to parishioners. ${ }^{3}$ In other cases, the issue is just quietly ignored.

[^23]A suhswantial propfortion of the students enroblled in Catholic secoutary schonols prertowsly. aftionaled public ehemumidary sctomols. These gernerally come from famallies that are

Almost 20 percent of the students in Canholic secondary schools attended public elementary schools through the eighth grade. Another 20 percert had some mixture of public and Catholic elementary school. The remaining 60 percent atiended a. Catholic school K through 8.
The average family income for students from public schools was considerably higher than for those who had attended Catholic schools K through 8: in 1980 dollars

[^24]it was $\$ 28,173 \mathrm{w} . \$ 24,783$. Similar differences exist in terms of parental education. Further, students from Catholic elementary schools come from larger families and indicate a stronger degree of religious antitudes and practices. Almost 60 percent of the non-Catholics in secondary schools previously attended public schools K through 8.

Students from public elementary schools are more likely to attend higher-tuition religious order schools where there is less teacher turnover and more teachers have advanced degrees. They also tend to rate the quality of teaching and the overall quality of their Catholic secondary schools higher than do students from Catholic tementary schools, as would seem appropriate from the preceding discussion.

Students from Catholic elementary schools do slightly less homework ( 5.74 vs . 6.39 hours per week) and watch more television ( 2.96 vs. 2.63 hours per night). They are more likely to be enrolled in a vocational program ( 11.5 percent vs. 2.4 percent), and as a result take more business courses and fewer foreign language and mathematics courses.

These data suggest a general panern of more affluent students from public elementary schools, afen non-Catholic, selecting the more prestigious academic Catholic secondary schools. These results are consistent with the interpretation, offered in Section 5, thar families of higher social class are more likely to select Catholic schools on academic grounds, whereas thexe of lower soxial class are more likely to attend to religions considerations.

Students from public elementary shools differ from their Catholic scheol counterparts in several important ways social class, family structure, characteristics of the secondary sciools attended, and academic activities and prexrams sedected. It is important to adjust for these differences before attempting to assess the effects of elementary schosil experience on outcomes during th. 'recondary shonol years. We used a statisical procedure known as regression analysin for the purpose.

The results of these analyses are presented in Figure 6.1 for academic achievement and Figure 6.2 for coilege orientation, social and affective de velopment. The columns in these figures represent the average difference between suatents who attended Catholic and public elementany schoob. A positive value indiaten that stuckents who previously atended Catholic elementary scheods are outscoring the ir classmates who previously attended public elementany schexsls. A nexative value indicates exat ty the opposite. Results are displayed both before and after statiswical adjustments. The former provides useful descripsive information abour the overall differences hetween students from public and Catholic elementary ochools. The latter provides a basis for estimating the effects of attending a Catholic elementany school. The results are presented in standard deviation units in order to corapensate for the different scales emploved here. In this way, it is posisible to compare the relative magnitude of the effects across the various measures Effects smaller than 10 of a standard deviation are generally not statistically significant nor educationslly meaningful in thete chati.
Accalemic achien ement. Our analysis indicates that the emphasis on vocabulary drill and various aspects of English grammar ohserved in the Catholic elementary school curriculum has beneficial effects. After statistical adjustment, students from Catholicelementarysheols significantly outperform their publicschosl asunterpans, in vocabulary, reading, writing, as well as in civics. I'nfortunately, as our field work

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did not focus on the last area, civics, we have no basis for explaining these results.
By contrast, there are no significant differences between students from Catholic and public elementary schools in the area of mathematics. Our observations about curriculum limitations may account for these findings. Even more important, the students from Catholic elementary schools petformed significantly less well in science. This result provides further support for the finding reported in Section 5 that Catholic school offerings are not particularly strong in this area. Scrence curricula require specialized staff and resources such as laborztories and instructional aids. As mentioned previously, small school size combines with limited financtal resources to take a toll in this area.

College orternation. Primarily by virtue of their higher social class, students from public elementary schools have a stronger college orientation than students from Catholic elementary schools. However, adjusting for background and school differences between the two groups causes this patern to break down. Students from public elementary schools remain more likely to plan to attend college, but Catholic elementary school students have a slightly higher assessment of their ability to complete college. The latter, however, is not statistically significant.

sciences. The initual differences in educationcal as: frirations circa sucial and aflectire delralofomesnf arte all streensuated, wilh fiowstatiselcally styniflcami afferrouces rematinime.

Affective outcomes development. The observed differences in locus of control between students from public and Catholic elementary schools are insignificant both before and after adjustment. While students from public schools have a significantly higher self-concept, after statistical adjustment this too attenuates to non-significance.

Social outcomes development. In general, before statistical adjustment, students from Catholic elemencary schools are more likely to be community and family oriented, and to express traditional views of the role of women. After statistical adjustment, however, students from public schools are slightly more likely to be community and family oriented. Further, the difference between the groups in their view of the role of women also becomed insignificant.

In sum, after adjusting for the differenpes in family background and secondary school factors, we find significant differences in school academic achievement between students who attended Catholic and public elementary schools. We conclude that Catholic elementary schools are particularly effective in the areas of language arts and civics, and particularly ineffective in science. There are no apparent effects of Catholic elementary schools in other areas. The adjusted differences in college orientastion and affective and social development are small and generally insignificant, and follow no consistent pattern.
figure 32 The Effects of Antending a Cothoick Elementory School on Coilege Onentation, Affective and Social Deveiopment (ossessed during senior year in high school)


## Section 7

83 The Finance of Catholic Schools
sextion 8
92 The Governance of Catholic Schools

> THE FMANCE OF CATHOLIC SCHOOLS area of Catholic school finance. Although the positive academic achievements of Catholic schools and their stabilized enrollments have received considerable public recogntion, much less attention is focused on school finance. Along with governance issues, which are aken up in the next section, finance constitutes one of the most pressing problems facing Catholic schools. If the schools are to survive in their present form and maintain their capacity, they must appropriately address these issues.





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Retigious onder subsidies. Historically, religtous orders have heavily subsidized Catholic schools by contributing services at salaries much less than market value. Over the past 15 years, this subsidy declined nationally at a rate of about $\$ 11$ million per year. In 1967, the subsidy offset 31 percent of Catholic school operating costs. By 1982, it declined to 9 percent, and it seems likely that this subsidy will virtually disappear by 1995.

The main cause of diminishing subsidies is the declining numbers of religious personnel serving in Catholic schools. In 1967, 58 percemt of the teachers in Catholic elementary and secondary schools were drawn from religious orders. By 1982, this figure had dropped to 24 percent (see Figure 7.1.). If this rate of decline continues, we can expert less than 10 percent religious faculty in Cathulic schools by 1990 and less than 2 percent in 1995. ${ }^{\text {² }}$

In fact, our review of social and demographic data from women's and men's religious orders in the United States supports these projections. ${ }^{\text {. Surveys of sisters in }}$ 1966 and 1980 indicate that the number of new entrants to religious life also has declined substantially ower this period. New vocations in 1980 were only 11 percent of the 1967 figures. Perhaps most significant, an increasingly larger proportion of

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religioiss community members are either redired or inftrm. The median age of religious persopnel rose from 53.4 years in 1976 to 56.8 years in 1981.
Further, the number of ministerial options for active religious personnel has increased significantly in the past few years. They include sarial work, peace and Justice education, parish work, prison ministry, and work whth migrant families. Financial pressures create incentives for some religious congregations to shift their ministerial activity away from education to better-paying work. Sisters in hospitals, for example, are paid wages that are double or riple those typically paid teachers. Some ststers report they feel obligated to seek better-paying jobs so they might provide more money for the retirement and health care needs of their communtites.
Almost half of the religious congregations realize their retirement financing will reach crists proportions by 1991. ${ }^{3}$ Female communities see the problem as more






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[^26]pressing largely because of the increasing ratio of retired and infirm to active members. The income-producing base is shrinking as the same time as retirement costs are escalating. This information is important because the fiscal health and stability of the religious congregations thax sponsor, administer, and staff Catholic schools is closely related to the fiscal health of the schools.
We conclude that schools can no longer look to their sponsoring religious orders for financtal solutions, since many of these have similar fintincial problems. The fiscal position for most religious orders is heading toward a shortall. We see two sequarate but related fiscal ume bombs tiding away-one whin the Catholic schools and the second within many reltgious congregations that have tradtitonally staffed and supported these schools.
Deferved matntenance. Standard accounting handbooks suggest that at least two percent of the total replacement costs of buildings and equipment be set aside each $y=$ : for major building maintenance. These funds for renewals and replacement are analogous to building deprectation allowances. A figure of two percent per year is equivalent to estimating a fifty-year lifetime for a facility.

Many Catholic schools, however, have elther grossly underfunded deferred maintenance accounts or have none at all. Furcher, it appears thax this has been the practice for some time. For inner-cty schools especially, the deteriorating condition and high cost of maintaining phystcal facilities pose a serious threax to the schools' ability to survive. Constructed in an era when energy and labor were less costly and vanda' ${ }^{\text {I }} \mathrm{sm}$ less frequent, such schools are funded inadequately to meet current physical plant needs.

Our sample schools varked widely in the amounts designated for plant repair and, renewal. One school spent $\$ 76$ per student on building matntenance and set aside $\$ 1.70$ per student for the replacements and renewals fund. At the oppositic end of the spectrum, another school spent $\$ 199$ per student on building maintenance in addition to sexting astide $\$ 121$ per student for the plant fund. Unfortunately, most of the schools were more like the former than the later.

Although national data on major maintenance funds for Catholic schools are fragmencary, extsting information indicates that the monies avalable here are quite small relative to the replacement costs of school faclities. In addition, since many of the current physical plants of Catholic schools were erected in the 1950s or earlier, major maintenance work and renovations seem likely. We approximate the current replacement value of the 9500 Catholic schools in America at about $\$ 20$ billion. Calculaing deferred maintenance at two percent per year results in a total of $\$ 400$ million, which is far in excess of the estimated $\$ 34$ million curreruly avalable. Further, we suspect this two percent figure may be somewhat conservative, since It, any Catholic school buildings have not been maintained adequately for some time.
Faculty salarres. Faculty salaries varied widely across the schools in our sample. The largest discrepancies occurred as teachers neared and reached the top steps of the scales. The variation at this level approached 100 percen, as seen in the maximum $\$ 12,700$ at St. Frances' High School compared with $\$ 24,000$ at $\mathbf{S}$. Cornelius' High School.

Catholic school salaries have always been considerably lower than those in public schools. ${ }^{4}$ Elomentary school salaries have averaged about 60 pervent of those in the public sector. At the secondary level, the flgure is aboun 75 percent.

[^27]All of the sample schools acknowledged that they fett considerable pressure to increase faculty salaries faster than at inflation. Several schools set as a goal teacher salary schedules pased at 85 to 90 percent of local public school scales. Only one of the sample school, however, was within this range.

If Catholic schools' salaries in $1980-81$ had been set at 90 percent of parity, the additional system cost for the 71,800 lay elementary school teachers would have been $\$ 459$ million. For the 34,500 lay secondary teachers, another $\$ 134$ million would have been required. Because of annual solary increases and the continually increasing number of lay faculty members, the system totals in 198384 would be substandally higher. To reach 90 percent of party today would require abour $\$ 575$ million at the elementary level and $\$ 170$ million at the secondary level. It is clear that addressing the salary needs of lay faculty will place substantial financial demands on Catholic schools.

Current neforms in the pubbic sector. The spate of commission reports and reform proposals for secondary education have serious financial implications for public schools. Tyjes is particularly true in the areas of higher salaries and career ladders in the teaching profession, lengthening of the school year, and greater use of educational technology such as microcomputers and interactive videodiscs. It is estimated an additional $\$ 20$ to $\$ 30$ billion would be needed annually to implement some modest set of changes in public schools. ${ }^{3}$ Several states have enacted already school improvement plans and substantially increased state ald to public education as a means for reaizing these plans. Many others are likely to follow. The actions taken to date suggest that the estimare offered above is quite reasonable.

| FIGURE $7 \times$ | SOURCE | (MHLUONS OF DOLLARS) |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Summany if Adritional Ravenues Naediad by Cotholk Schocis (milhers of dullars) |  | 1984 | $\begin{aligned} & \text { YEAR } \\ & 19099 \end{aligned}$ | 4994 |
|  | Increase in Solary Expenses Due to Dedining Numbers of Relliglous Sroft | 520 | \$116 | 8309 |
|  | Reserve for Deferred Mointenance Costs | \$400 | $\$ 535$ | \$716 |
|  | Increose in Teocher Solaries to $90 \%$ of Porty whit Public School Solary Scoles | \$744 | \$1.109 | \$1.670 |
| . | Resources to Implement Schoot Irmprovenent Proposals of 50\% of Public School Level | \$4.000 | \$1,338 | \$1.790 |
|  | TOTALS | 52,164 | \$3,438 | 84,485 |






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 Nowenter, 1983 , 65, 167.172.

For Catholic schools to retain dedicated faculty, keep salaries from falling even further behind those of public schools, and maintain academically auractive programs will require additionad financial resources. A level of effort comparable to the public sector estimate mentioned above might require an additional $\$ 2$ billion annually for Catholic schools. Even a figure at half this level, however, seems improbable given the current mechanisms for financing Catholic schools. Figure 7.2 summarizes our estimates of the additional revenues that will be needed.
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The revenue sources for elementary and secondary schools vary considerably. The vast majority of elementary schools are operated by parishes, and histortcally, have been heavily subsidized through parish contributions. In addition, parish schools received a subsidy in the form of reduced salaries from the religious order that staffed the school. As indicated above, however, religtous order subsidies have been declining for some time. Even if an elementary school has a significant number of religious personnel, it may no longer receive any financial subsidy from their presence.

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Thus, the major factor influencing the financial health of elementary schools is the financial health of the sponsoring parish. Sinee many parishes, particularly those in urban areas, are pressed financially, they are unable to maintain previous support levels. As a result, over the past 15 years, parish subsidies declined nationally, and tuition rase in order to compensate for these losses.

As the secondary level, only 22 percent of the schools are operated by parishes and are thus eligible for a direct parish subsidy. The vast majority of the schools are sponsored either by a religious order, 36 percent, or a diocese, 42 percent. While in the past these schools might have received a significant subsidy from their sponsors, this is much less prevalent today. (For more details on the structure of Catholic school governance see Section 8.)

Diocesan resources, and consequently their subsidies to schools, show trends similar to those for the religious orders. Within the past derade, dioceses have found their costs increasing rapidiy in the face of relatively constant revenues. While scheools constitute an important diocesan activity, there is increasing competition for scarce nesources from other activities such as Catholic charties, adult education, universty campus ministry, and research and planning. Dloceses that have supported schools in the prast are no longer able to do so. In the past decade, dioceses have therefore generally divested themselves of fiscal responsibility for operating expenses at Catholic schools. Although in some dioceses a few inner-ciry schools still receive a subsidy, most schools do not.

Development and annual fund raising is another revenue source for Catholic schools. While some secondary schools, particularly those sponsored by religious compnunities, have had active development programs for several years, this is a new enterprise for most secondary schoois and virtually all elementary schoots. Catholic school fnance specialists have argued that Catholic schools should generate, through development activtides, between 10 and 20 percent of their annual revenues. ${ }^{6} \mathrm{Na}$ tional data show that development and fund-raising activities have increased somewhat. In 1969, these activties proctuced 5.7 percent of all elementary school revenues

[^28]and 5.3 percent at the secondary level. These figures rose to 7.2 and 6.6 percent respectively by 1980 . Although a fex: Jatholic schools currently realize development income in excess of 10 percent of their total revenue and others can see this as a realistic goal, most are unitikely to attain this level in the near future.
To compensate for diminishing subsidies and the retarively slow growth in development and fund ratsing, Catholic schools have looked to tuition to generate the necessary operating revenues. As a result, tuitions have increased faster than at inflation. From 1967 to 1981, elementary school tuitions increased nationally 516 percent and secondary tuitions by 378 percent. In comparison, the consumer price index rose 272 percent in the same period.

Further, Catholic schools have become increasingly tutdon-dependent. Flgure 7.3 provides trend data on the percentrge of the per-pupil cost offset by tuition. This too has been risingerfermencary school tuitions increased from 27 to 40 percent of the total. At the secondary level, tuition offset 60 percent of pupil expenditures in 1968. This figure rose to 82 perrent in 1981.


In sum, Catholic schools currently face a very reduced set of options for raising the revenues needed to respond to the fiscal pressures outlined in the previous section. Unkess a major new source is found, it seems likely that schools will become even more cuttion-dependent, and that increases here will be rapid. To meer its current fiscal needs exclusively through increases in tultion would require the typical elementary school to double its charge immediately. ${ }^{7}$ We wonder how many institutions would survive such a measure. And for those that did, the clientele served would surely change.

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While the national financial data on Catholic schools are sobering, inferences about individual schools should be drawn with great care. Catholic schools are quite diverse. Each school is administered individually. As a group, they are more like a loose federation of private schools than a highly centralized system. As a result, these financial pressures are likely to be felt unevenly across schools. We sketch below how these forces affect threegcases we believe capture much of the diversity among Catholic schools.

Established religtous order sctrools. Many of the most fiscally solvent Catholic schools are staffed and governed by religious orders. St. Edward's in Louisville is an example of this type. Founded in the mid-nineteenth century by a religious congregation of brothers, St. Ectward's enioys, a strong reputation for academic excellence and civic leadership. Located for many years in downtown Louisville, the school moved to a more spacious campus near the edge of the city twenty years ago. Its student body is almost exclusively white and Catholic. The median family income in 1982 was \$35,000. Although the school does feature a remedial "school within a school" for approximately 60 students per grade each year, its curriculum is almost entirely college-preparatory, with a wide selection of courses including 12 advanced placement offerings and 19 advanced college credit courses.

For over a decade, the school has operated at capacity enroliment. Applicadons for admission exceed the openings. The school's tuition of $\$ 1450$ is thie highest in Louisville and above the national median. Classes are large, sometimes averaging over 35 students per section. The relatively high tution and the large class sizes make it possible for the school to peg its salary schedule at 100 percent parity with the local public schools. As result, the school is able to attract and maintain a dedicated and well qualified faculty. Faculty turnover has been tow, averaging less than five percent per year over the lase five years.

St. Ectward's benefics from strong financtal guidance provided by its Board of Directors. It currently maintains over $\$ 300,000$ in a fund for renewals and replacement. Recently, the school initiated a four-phase $\$ 8$ million capital campaign to add specialized classrooms, computer hardware and software, a performing arts center, and to provide some endowment for scholarships and faculty salaries. The Board has played a key role in this development campaign.

Given the general fiscal health of the school, there is no evident need for rapid increases in tuition. While tuition is high by Louisville standards, so is the median family income. Thus the school's ability to raise additional funds through tuition has not been exhausted, and constitutes a future source of revenue. Schooks such as St . Edward's are well positioned to survive the financtal strains of the decade ahead.

Drocesan suburban schools. St. Richard's, established by the Archdigcese of Boston in 1959, was initally staffed by a single relighous congregation of sisters. It now includes sisters and brothers from several religious onders. Although the school's enrollment flucuated widely in the past 15 years, it is currently at 900 , capacity for the school. The curriculum is college-preparatory with strong academic programs in the core disctplines. Parents and students laud the family spirt of the school and the individual attention that characterizes the faculty's interactions with students.
There are some deficiencles, however. St. Richard's has no music program. Likewlse, there are no computer faclities, despite the school's location near a major high-rech area. Teacher salaries are relatively low, particularty for a suburban school, Kand necessary plant renovations are constrained by limited resources.
FHigh School and Beyond dara indicate that tuition in suburban schools such as St. Richard's constitutes about 8.2 percent of families' discretionary income. In urban schools, the comparable figure is 9.7 percent. ${ }^{8}$ This suggests schools that drayf their students from suburban areas have the porential of raising their tuition by as much as 20 to 25 percent. This may be particularty true if tuition increases were combined with a financial aid program and discounss for families enrolling more than one child. Such a school could realize, then, some increased revenues without limiting the social-class range of its student body.

On balance, while these additional tuition revenues would be helpful, it is unlikely St. Richard's will be able to solve all or even most of its resource needs in this manner. The guidance and strong financial assistance of a committed Board of Directors also seems essential. Aithough St. Richard's has an advisory board, all legal, policy, and major financtal decisions are made by the diocese. There is no tradition of strong local board involvement at the school.

Unfortunately, there is no simple solution. To move a school like St. Richard's to a position such as S. Edward's takes much time and effort. There is a broad base of potential support that could be tapped for this school. The community is relatively affluent, and some of the school's earlier graduates have become quite successful. Unless S. Richard's reaches out to these groups, however, it is unlikely that the school can adequately address tes resource needs.

Inner-city schook. A look at Sc. Peter's High School in San Antonio inparticularly revealing. As families have moved from the ciry to suburbain neighborhoods, they have been replaced by black and Hispanic poor. In the past decade, white enrollment at S. Peter's has declined from 60 to 37 percent, whereas blacks have increased from 10 to 26 percent and Hispanics from 30 to 37 percent. The school now aces tis . mission with severely constrained revenues. The median family income at St Peter's, often based on two working adults, is slightly less than $\$ 20,000$. The rapid demographic and financial changes that have taken place make this school particularly vulnerable to closing.

St. Peter's needs additional resources for '"pgrading its salary scale so as to attract and keep more qualified teachers. Renovation of the physical plant is a priority: roofing, window frames, and interior refinishing work have been delitred for several years and require immediate attention. The replacement of a wooden innex housing four classreoms is likewtse an urgent need. Further, Sr. Peter's wants to expand ifs curriculum to include business, computer, and vecational courses that -

[^30]require significant capital ourlays for equipment. In short, the school needs large increases in revenues to meet its basic operational needs.
${ }^{\text {- The school faces other critical problems. In 1982, S. Peter's last the community of }}$ sisters that administered and staffed the school. The damage extended beyond the contributed services of the sisters. With their departure, the school also lost the vast majorty of its experienced teachers. As the number of religious staff dwindled toward zero, faculty turnbver escalated to about 30 percent a year. The school was thrown into an idendity crisis of sorts. As the school board president remarked: "In the minds of the people who support us, religious faculty are what makes a school Cadiolic." It all happened very quidkly; the religious order made linte effort to faclititate a smooth and orderty transition.

In general, the fiscal picture for many inner-cty schools such as St.' Peter's seems ominous. The schools have high marginal costs relstive to suburban and rural schools. These costs contribused stgnificanty to the substantal higher rate of school closings in urtran areas in the late 1960 s and earty 1970 s. ${ }^{\circ}$ Even though the demand for such schools is currently srrong, they face a stuadion in which tuition increases cannot generate anywhere near the additional resources' needed. Inner-city Catholic schools have greater financial needs than their suburban counterparts such $2 \mathrm{~S} \mathbf{S t}$. Richard's, but the families they serve have considerably smaller incomes. Although many fcrmer students have become financially successful, few of them identify with the school and its new mission.

Our analyses support the conclusion, alpeady noted by others, ${ }^{10}$ that many innercity schools serving large numbers of mingrity children are likely to close. Unilke the established religious order schools and suburban diocesan schools, which appear to have some promising opdons, inner-city schools seem highly constrained. Rapid increases in tuition are not feasible. The local parishes are also at the edge of fiscal insolvency and are unable to help. The religious orders and dioceses that subsidized these schools heavily in the past are unable to continue this practice. The situation at schools such as St. Peter's is cause for alarm.

In conclusion, there are formidable financtal pressures that will face Catholic schools in the next few years. These pressures will not affect all schools uniformly. With the decline of relighous order, diocesan, and parish subsidies, development and fund raising programs along with tuition increases appear as the only ways to raise revenues. Whereas established religious order and suburban diocesan schools can use these avenues to obtain additional resources, inner-cty schools serving prediominantly minority pupulations are not so fortunate. The economies of increasing expenditures and diminishing opportunities for increasing revenues leave these schoods in a rapidly tightening vise.

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hree facts complicate any discussion of the governance of Catholic schools. Firss, there are three different categories of Catholic schools: diocesan, parish, and religious order (sometimes referred to as private). The governance differences among the three types of schools are most distingt in the fiscal and legal areas. In diocesan schools-these responsibilities reside with the diocese and ultimately the bishop. In parish schools they are uldmately vested in the pastor as "the chief executive officer" of the parish. In private sthools, they may either fall to the religious order that sponsors the school, or, as is increasingly more common, they may be vested in a board of directors who are appointed by the religfous ofder.

Second, there are overlapping and occasionally conflicting furisdictions. Under Canon law, the universal rules that govern the organization of the institutional Church, the bishop maintains authorty over Catholic schools wthin his diocese. While this authority applies most forcefully in the area of Catholic reachings, the bishop's influence can extend substantially beyond this domain. The canonical situation of the various religious orders adds another complication to the governance picture. Some of these, known as diocessan congregations, fall under the direct supervision of the bishop, while some religlous orders, such, as the-jesuits, do nor. Further, within the past 15 years, several constitutional elements such as dicicesan pastoral councils, parish councils, and local school boarcts have been grafied onto the. system. In addition, during this same period, diocesan boards of education became. more involved in setting policies affecting Catholic schools.

Third, the interpretation and implementation of the governance system vary substantially across dioceses. Some bishops might choose, to exert a great deal of control over the schools. In the dioceses we vistied, however, mast of this authorty is delegated to other individuals, such as the superintendent of schools, and to advisory groups, such as the diocesan board of education.

Diocesan schools like St. Richard's are governed by a diocesan board. These boards önsist of both religious and lay members who are appointed by the bishop. The board is charged with recommending policies to the bishop for all diocesan schools in a variety of areas-e.g, faculty salaries, benefits, school calendars, tenure policies, and discipline codes. The appointment of princtpals in discesan schools is also under the authurity of the diocesan board.

In addition, a schooi migh have tis own board. At St. Richard's, for example, there is a princlpal's advisory board. It meets regularly with the principal to discliss the school budget and academic programs, and to provide support for school fundraising profects. While the diocese matntyins fiscal and legal control of S . Richard's, it does not subsidize the schood. As'ting as the school manages to balance its budget. decisions abour routine financial matters ess whth the principal and his advisor; board. Should the fiscal sturation become unstabie, the diocese would be liable and could concelvably move to close the school.

In private Catholic high schools like St. Madeline's and St. Edward's, the key governing body is the school's board of directors. These boards are typically composed of religious and lay members and have powers similar to those of the boards of member schools of the National Association of Independent Schools (NAIS). They have, for example, authority to select the principal, set tuitions, fix faculty salaries, establish other financial policies, and oversee the academic, religious, and other programs of the school. Most diocesan policies, such as faculty salary schedules, would not apply at a private school such as Sc. Edwand's. The contact between the school and the diocese would generally be cordial but limited.

Finally, as we indicated in the section on elementary schools, most governance maxters in parish schools are resolved in the interactions among the pastor, the principal, the parish councll, and the school board, if one exists. An organizational chart here can be somewhat misleading, as much of the decision making is quite - informal, with a great deal of deference being given to the pastor's opinion. Like diocesan schools, however, parish schools must operate within the policies formu-. lated by the diocessan board.

Figures 8.1, 8.2, and 8.3 provide simplified organizational charts for the gov: emance of parish, diocesain, and private schools, respectively. They are intended to


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highlight the basic organizational elements that would appear in virtually any diocese. They do not, however, reflect the full detail of the organization of any particular diocese.

The princtpal occuptes tibe central administrative nole in Cathoitce schools. 744s
postifich requires expertise in many dinerse aneas: . persomnel. findinces. coramuntoy relations. currtchium and suprerisitom, and Viatholic leadership. The lean administratiey stafs in most Catholic schemis prostide Ittle support for the princifal. ds a result. this mole can be quite. demanding.

Individual Catholic schools, regardless of their legal structure, are quite autonomous. The principal thus acts as chief ädminisrative officer for the school. Although limited to a suggle institution, the responsibilities involved are equivalent in range and nature to those of a public school principal and superintendent combined. The Catholic schoiot princlpal bears responsibility for financial management, development, fund raising, public and alumni relations, faculy selection and supervision, student recruitment, and in many cases, discipline and instructional leadership. The priricipal must also maintain amicable relationships with the diocese, the neighboring parishes, the religlous order, and the local community.

The daily foutine of Caxholiéschool princtpals makes many demands on their sldlls' and énergles. This ćan be seen most clearly in a brief portrayal of a typical day in the life of Father Kevin Oleary, the principal at St. Cornelius High School in Cleveland.

Father O'teary has resporisiblity for over 900 students and 60 faculty spread over three carnpuse: about three miles apart. OLeary normally arrives in his office at 8 A.M. afyer offering Mass at a nearby convent His first task of the school day might be to talk with several parenas about some discipline problem that involves their childanything from alcohol consumpdion on school property to classroom mishohavior or truancy.

A substantial part of the remainder of the morking might be spent in a serves of shor conferences about a variety of administrative matters. These span concerns from course scheduling and collecting.delinquent tuition to problems with the maintenance of school buses.

For part of the day, Fr. OLeary walks the hallways and spends time in the cafeteria 'greeting students as they pass, occasionally stopping to engage in informal conversation. He mighit asis a student about her progress with school work with which she has had some difficulty, stop a member of the basketball team to engge in friendly banter about last night's game, or take a student aside to iniquire about "how things are at home." This is also a dime for informal conversations with teachers about how their classès are progressing. He might visit a class for ten or fifteen minutes as part of his observation rdutine. These dally walls give him a feel for what is happening within the classes and, more generally, around the school.

Much of the afiernoon is taken up with a variety of desk work that includes refurning telephone calls, responding to written lnquiries, and perhaps spending a few moments joting inotes on an idea for his monthly newslewer to parents. Laie in the afternoon, he might have scheduled a meeting or twas more conferences whth parents, possibly a meeting with department members working on curriculufn revisions, or perhaps a discussion with theschool's nelghbors who have complained about students playing their radios too loudly and cuating through the neighbors' yards on their way to school. He might conclude his afternoon with a vist to the athledic fields and the gym, observing the studenes practice, talifing to coaches, and wasching an mhledic contes if one is scheduled that day.

On mast days, Fr. OLeary's schedule extends well tnto the evening. The agenda might be a dinner meeting in the diocesan office downown to discuss some pending
matter with the superintendent. On many nighs, fund-raising activity is the main concern. On other occasions, it is pastoral work-eg., a visit to a funeral home or hospital to comfort families associated with the school community.

In talling about their roles, principals conveyed many images: community builder, instructional leader, financial and personnel manager, recruiter, reconciler, promoter, enforcer, and general morale builder. Most of the palnctpals indicated thaz their primary concerns were the academic and religious programs of their schools. They particularly stressed the importance of selecting .personnel who are both academically well qualified and whose personal values are consistent wth those of the school. As one of the princtpals stated:

I look for people who have a strong academic background, are tneerested in working wth ceenagers, and are supportive of the phillosophy of the school. I atso kook for teachers who are willing to get involved with sudenss in coaching and other atter-school'activites.
Altiough most of the principals in the sample schools had an assistant, the administrative structures are generally quite slim. In part, this is cuve fo the relatively small stre of most Cahholic secondary schools. It is also due to a conscions dectision to control costs. As a result, principals perform many tasks that would be spread out in larger organizations-chairing committees, recruiting stadents, and directing parents' clubs, in addiation to administration. Two of the princtpals in the schools we visited even managed torteach a thase section.

This was one area where school size. worked in the principal's favoc. In barger schools, the principal was likely to have several assistants. The most stressed princhpals were those in the smallest schools who had to perform essentally the same number of functions as their counterparts in langer schools but with much tess help.

Hintorically. refigiones orders batre provided suppory serticessfor the scheresis in which their members taught. 7hese services bure
contracked in the past
tuenty wars as a mesuht of the gratuculretrenchmint of the relighous orders. In an uthemper or fllt this srowligg breach;: diocesem rifficsiof etfuratom hrare expenvided threir rote. The resources bere are alsorlimitrad, and these offices are bard fowt to were the fill remgereff services solvorols need.

Since the 190 os, the responstbilities of diocesan superintendents and diocesen - central offices have changed considerably. After the school-building boom of the 1960 s , dioceses faced huge capital detres, mounting operatonal defictss, and became increasingly reluctant to build more schools. These financial pressures led dioceses to move in the direction of ceding financtal responstbility to already existing schools. As sompe of these closed and the system contracted, the emphasis in diocesan offices of educaton shified to providing support services that religious orders had prevtously supplied.

Both elementary and secondary princtpals expressed the 'need for cenrralized services such ás leadersitip training for administrators and boards, legal and financtal advice, asslstance'on curriculum maters, and increased opporiuntites for communcation beiween elementry and secondary schools. The diocesan central offices, however, generally have small staffs and limited resources, which coinstrain thetr ability to provide the number and range of services requested. In one diocese whth over 40,000 students, curriculum and steff development was handled by a strigle. -professional.

For many parish and diocesan schools, the diocesan office of education is the major source of professional support services in the areas of planning, developtnent, programming, and evahuaton. As religious orders continue to reduce thetr services .to schoiols, the need for digcesan support seems likely to increase. Dlocesan budgew tn the sites we wistred, however, are not expanding in response ta-these needs.
veuprthelusss, the male of the diocese in the governance of Cationic shanks seems likely to grote the the mans abeaad.

Kellgigus Girders conflate tomprortan the cast majority of ackonit frinctpalsbifis. 7 heir presence in these fraistatons cheat ry
thentiftes to the genarral public the" catholic character of the sctokna and Rates
ariministrathre cones at a minimum. Alfoumgh this mertacanism boas bean effective in the past it could disable the system in future' years, patidicularty if religions orders fail to prepare lay adimindictrators and beards to ravine Leadership in Cationic chorals.


Some religious orders see their mission is one of providing leadership through such ley roles is principal, department head, and school board members. Many have made the decetston to keep their own religious personnel in the top administrative and board positions. This holds down administrative operating costs since religious safer generally rectum part of their salary to the school in the form of contributed "services. Controlling coast allows tuition rates to be kept to a minimal level, which in turn allows schools to serve a broad social class of students.

The presence of religious staff in key administctaive positions also serves to. reassure parents and alumni that the school is Catholic. We heard several comments, from staff and particularly from pareses that highly'ghed this image problem: to those outside the schools, what is a Cath . : tool without religious staff?

The view of some religious order: ... at it school governance, however, emphasizes shortrange thinking ax the possible expense of longterm solutions. In preferring to assign leadership postings to their own personnel, such religious orders are neglecting the essential task of preparing lay administrators and future Catholic school leaders. To continue these practices could be disastrous. -

Similarly, we view the development of active independent lay boards as essential to. the longterm heath of Catholic schools. These boards can undertake several importart missions, such as long-range planning and development efforts, and can generally provide a broad base of future support for the schools. Some schools hive already moved in this direction and are well situated for the decade ahead. Others ares struggling with the transition process. Unfortunately, some remain unaware of the issues we are rating.

Two of our sample schools illustrate the kind of problem that can result from adherence to -this shortterm strategy. Despite the existence of a lay board at St . Peter's, all long-range planning and Instastional-management had been directed by the religious order.. Their departure in 1982 creamed a vacuum. The lack of expertended lay admantspraors and board members left the school to a vulnerable position. When we vastiod in the fall of 1982 and the spring of 1993 , St. Peter's faced declining enrollment and financial problems without the guidance of experienced leaders. In was a troubled school facing an uncertain future.

At S: Prances', the starvation appears stable. Jus e bengith the surface, however, are some very disturbing concerns. The school relies heavily on the expertise and resources of this sponsoring order. The order; though, has its own financial and

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\begin{aligned}
& \text { - \$*. personnel goncerns. Serious questions are being ratsed about is ability to sustain the } \\
& \text { school. In oyr view, this school needs to kook to its alumnae, parents, and ither } \\
& \text { interessed persons in the cormmunky for expertise, leadership, and support. Unfor-" } \\
& \text { tunacely, litie ground work for this has been lald. } \\
& \text { On balance, religiows onders that sponsor Catholic elementary and secondary } \\
& \text { schools fage the same dilemma thax religlousty oriented higher education instiutions } \\
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& \text { many denominational colleges, they will not gradually slip away from their religious } \\
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& \text { Yet to stand still in this case means virtually certatn demise. }
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Nespect for and deference to members af reldidous orders hate alone mach to sloape the didernance of Cathonic sforols. In the last 15 years, Bnoweter, the mare general concepotons about the church ifyll the midrure of retigions expertence in ubich this attitude ds
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rbis sbiflt, combined nith the declining ntumber of relighoss stafferml increasting! scapre resources. suggests that a new onguntzuttimal model is nevded for Catholic stroats. The comcept of collfragueshifm which recognizes that perwonnelate the kreatest resionrce of catburic siburows, iffers - an attractice
alhernaftie.

As mentioned in Section 4, some aspects of teachers' involvement in Catholic schools appear troubling. While teachers report thit they have cons, lerable authority in maters of curriculum and classroom management, they claim litule knowiedge of and influence over the schools' fiscal affairs.These responses are consistent with other data we collected. They indicate that most Catholic school teachers believe both that they are underpald add phat the school could afford to pay them more: The stuation appedrs particularty \&roblematic for liay persons who construte approximately 75 percent of the teachers in Catholie schiools but hold only about 27 percent of the princlpalships. ${ }^{1}$

These survey data resules are perplexing to us. Although they suggest sharp organizational conflicts, we did not encounter such conflicts.in our field research. Our observitions and interviews suggest that this is due in part to the character of the work in these schools."Many lay teachers spoke with great affection about their feelings of kinship with religious members of the faculty, some of whom they may have admired as thetr own teachers'several years earlier. They spoke of the religious staff as "good people," "dedicated to education," and "commitued to the personal development of each student." And they respect the religious staff. As one teacher said: "The professional pride and teaching tradition of the ststers at this school are incredible. I feel like I can breathe it in the classrooms and hallways." Such poostive perceptions about one's fellow teachers and the value of one's wisk can diminish the impact of material inadequacies. ${ }^{8}$

These comments from the lay faculty suggest that religious members are held in some rèverence and thus are accorded deference because of the depth of their commiment to teaching and to studenss' learning. This deference, however, is also grounded in tra thional Catholic teachings, in which many lay faculty were inculcated. They em hastze a conception of the Church as interpreter of a received truth and a view of religious' experience that focusses on the vertical dimension-a personal relationship with a Supreme Beigg. In discussing elementary school governance we noted a pattern of deference towards the pastor. This, might be broadereed at the secondary level to encompass religious staff more generally.

[^32]But there is also a disabling quality in this atitude that can produce insitutional passivity. The religlous orders built, staffed, and have provided for these schools throughout their history. They have owned them in the fullest sense ofthe word. But recent trends-chlefiy diminishing numbers of réligious staff anid deetining resources-mean that the reach of the relighous onders will inevitobly shrink Further, the intellectual foundadions that historicaliy have underpinined the enterprise have begun to shift. The last 15 years have witnessed the emergence of new conceptions of the Church as community and a view of religious experienue thia - gives vitality to iss horizonal dimension, a concern for humanity.

The combination of the human and fiscal constralnts and the changing perceptions abour the purposes and nimure of Catholic schools dictate a move iowards colleapueshtp as the organizing principle for Catholic schools. For desplee the constraints, Catholie scinools have one clear strength: the dedication' and commanent of the faculty and staff. The concept of coileagueship builds on this strength. Moreover, some would argue that such a move would also serve the concern for equity-that those who make sacrifides to suppory the system deserve voice th ths governange.

Robert Newton has quite perceptively noted the difificulties that religious and lay faculty will face in implementing the pation of colleaguestip within Catholic schools. ${ }^{2}$

It will not be an easy transtion. The challenge to both laty and religious [staff] involves a signuficant change in their roles and behavior. Religious [exaff] and clerics ... must ste themselves as pariners, rather than the primary reciplents of the "vocaton of teaching. Relighous comimuntites and diocesan- ofifces with have an especially hard time adjusting to chis new role. The communicadon networks within the clerifal religious world are firmly escablished. .. To To begtn to treax lay persons as leaders in Catholic education on more than a token basis will réquire stgnificant adapradion on the part of clergy and religioys [staff].
Yet whout this adaptation, the future for Catholic schools looks very uncertaln.
 March/Apnil, 1901.

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We began by describing our findings as a story of much goodness, but also of some tensions and two deep-seated problems.'The last two sections identify these problems: finance and governance. It is clear the limited resources in some schools detract from their qualiny and serioushy jeopardize thelr furure. In the most concrete terms, there ts a need to upgrade instructional facilities, such as science laps and computers. There is also a need to improve teacher salaries in order to maintain a stable faculty core. In more abstract terms, Catholic schools run the "great risk of losing their sense of mission. The parcem for the zcademic and spirtual tradition of the school can become secondary m , the school's desperate fighi for survival. As religious orders relinquish sponsorship of schools and the rapid turnover in lay faculty condinues, who will remain to interpret and teach the traditions and to carry 'on the mission?

It is equally clear that the pressure on" fiscal resources will grow in the years ahtead. - The number of institutions affected is likely to increase. The current sources of financtal support for Catholic schools are not adequate to maintain them in the future. The declining subkidies from religious orders, partshes, and dibceses, which result from the more general soctal, economic, and demographic factors affecting the American Catholic Church, are a major problem confronding Catholic schuols. For some schools, particularty those with large proportions of poor and minorities, these fiscal problems are especially serious:

While it might seem curious to some, we see govematnce issués to be equally significant. In part, governance concerris rebute directly to financidi matters-eqg, the need to establish independent boards of directors to assist in insthutional planning and development. But governance concerns also have an internal component: what role should be accorcfor the growing lay faculty? In the quier transformation of Catholic schools' to lay institutions, this tosue is not yet afidressed, fully. Canon law. notions of authority and religious obedience seem an inappropriate basis for the governance- of these post-Vatican II schools; but so do the adversertal kabormanagement models that are prominent in much of the public service sector.

Teachers are the great strenpth of Catholic secondary schools. Their extended work day, diverse academic and w-curricular involvements, and broad investmènt in the school and the welfare of tas studenas indicare uncommon dedication. We observe this in our field stass and see ample testimony to it tn the natonali data from fitgb School and Boyond. It would be a tragic loss were this commitment and dedication to be dissipated because Catholic leadership lacked the vistion to reach beyond their presert hortzon and cultural bounds concerning the appropriate means for organizing and managiag faculyy toncerns.

In addtaion, there are, wislble tensions within the schools over how they art Catholic, and as a result, whom they should serve. The transformation of the school from Csholic in a narrow, orthodox sense to an ecumenism which reaches out to minorities and non-Cxholics comes at a time of considerable turmoll whin the Church and the larger soclety. Inevitably, there are different vews and conflicts
among thgse views. Whithin the schools we visited, however, these tensions seem * productive. The conversadions were open and lively with liade cynicism. This stgnals an instiusional vitality in which committed individuals seek to preserve what is of worth from the past thille recognialng the need to reinterpret tradition in bringing meaning to contemporary' problems:

Nether the problems nor tensions mendioned above should obscure thie fact there

- is much goodness in the Catholic schools we studled. There is a consersi's among teachers, students, and parents about the purposes of the school. This nois tal commitment creates a social contract that has pervasive influences. For teachers, it means a commitment to both a prefesstonal role and a personal stake in the school and in the lives of is students. For sudents, it means a commitment to actively engage in the instructional process and the life of the school. For both teachers and students alike, it is asocial involvement bound by mutual respect. The overall effect is an environment cunducive to learning, where learning occurs in boty the acadethic and moral spheres.

On the instructional side, there is the tradition of a rigorous academic core curriculum. By concentrating efforts here, Catholic schools are able to accomplish a great deal with yery modest resources. More importantly, however, our research indicates there are significant social and educational consequences so this. policy. Inparticular, a inajor mechanism by which soctal class differences are translated inoo - academic differences is greatly constrained.

But the consensus of values extends beyond racademic goals to a broad set of purposes for the school: there is ample space for concerns about building community, human relations, social justice, and ractal harmony. It is unabashedly valueoriented, grounded in a set of beliefs aboiut the worth of each individual and a world view that proclaims the meining of life encompasses more than self interest in a material world as we know if hene and now. It is the orientation toward personal goodness that binds together the culture of the Catholic school and uldimately makes it work as a social institution.

In closing, our research foins a modess stream of other work that recognizes the positive charzcser of the contemporary Cutholic school. In a real sense, this is the best of times for Catholic schools. Yet, $t$ is also a time of concern and surely more change. Catholic schools must-continue to adapt while mainvaining a commiment to theiracademic and spirtual traditions. Disciplined inquiry can play a role in such an environment While social research rarely provides solutions: there is mo mechanical substitute for good judgement - it can, however, catalyze discussion and encourage a more rellective educatonal policy and practice. It is in this spirit that we offer our work for ;our consideration.

## ACKNOWLEDGMENTS

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We begin by acknowledging the generous contributions made by the 7 secondary and 13 elemencary school principals whose schools were part of this study. Thej received us warmly in their schools and made our passagethrough them a memorable and worthwhile event. At these institutions we met and spoke with pastors, board meinbers, teachers; otier adminkstradve team members, parents, students: and support staff. For their generous hospitality and cooperation, a sincere word of gratitude.

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The Center is governed by a Board of Diructors. They provided us with much guidance, support, and encouragement throught the many valleys and peaks we experienced as we pursued our intutions and tested ơor hypotheses. We thank these members of the Board

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Finally, the reseasch project began with a letter sent to the appropriate chief administratots of the archdioceses and diocese involved in the project. Their initital hunches about what schools would fit the sample and continuing assistance at various stages was most beneficial. We thank these chief administrators.
I Mr. Liwrence Calinhan
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[^0]:    RǗBN A. CARRভ́DO is Director of Planning for the San Diego Public schools and an advanced doctoral candidaxe at the Harvird Graduate School of Education. He was formerly a teacher and priweipal in public schools and a Research Assoctate whth A Suady of Higb Schools.

    Mr. Carriedo conductedfield research. He contributed to the writing of Sectons 3 and 4.

[^1]:    
    
    
    
    

[^2]:    
    
    
    
    
     IIntrenity Preser, 1982.
    
    

[^3]:    
    
    

[^4]:    

[^5]:    3. Learning Activity Pactages, or LAPs, as they are commmoly called, offen indude ohtectives, xnme readinges on the
    
     rection.
    
    
    
    
     fromer.
[^6]:    
    
    
    
     public sotwoll suaderes in each area" pubtc schul suct in each area

[^7]:    
    
    
     1933.

[^8]:     educution. Other researc ens such os Goodlad and Sliver found simitar arrangemenst in the fiekd shes they visited.

[^9]:    
    
    

[^10]:    MOTS
    
    
    
    FSomple axet ore sumelgturd.
     50 and a monderd devtoton of 10 for tie entre ASES momplan.

[^11]:    

[^12]:    
    
    
    
     Unfortuntity, we krow of mo dena source tha permiss separiang ofin hese mo effects

[^13]:    6. HSGB is not well dextoned to examine this trove. The onfy survey question on frculty sabaries concerns searing salarks. Our fichd and liwermure research, however, indicmes thin starting salarkes are of far less importance than the Bup of the nalary scile. See Section 7 for more detats.
    7. Ofviousty, one coutd have woo much of a good thing. Calcticicilon of suff is likehy wo be as problematic as severe
    
    
[^14]:    
    
    
    
    
    
    
    
     in the furure

[^15]:    10. The bndex used as a measure of "retationship surengin" is the incrementel percentage of vartance explained when a cluster of predictor varishles, eg fanily structure, if entered last in the equaton. The reauhs can be shifity
    
    
     constricts then predtat in particuler oubrome.'
     intended to undermise such anslyses as a wenstivity chect on our find rewhis. Unfortunsely, we lade she necersery
     the fuare.
[^16]:    
    

[^17]:    12. Given our research purpose, these are the mont inpontint analyes from a conceprual peripective Unfortunumely, the dana necensary for these anmyses were avaloble rather hate. As a seruk, we did nus have the opponiunity to
     muppontings role. We only report findines tha heve some comoboration through ocher aralyses.
     cheme score variance in these optcones. Thus, very few stimatical retmonshtps could be found. We dectded not to repon on these osweomer for ther reseon:
[^18]:    
    
     several techinques be used. The resulas can then be compared for consstaticy. Whe have done thas.
    15. We used a negatve expugeraial growith model to trumsfixm the soph smore and senior scoves it has tha
     facker, x ts therxical so the learning raves usedthy Coleman ef af, of ct.

[^19]:    
    
    
    
     resul.

[^20]:    17. Evidence on thts pount ts presented in a separase paper. Sex Anchony $\$$ Bryk and Steplen Reurdenbush, "A Hermichical Linear Model Investigetion of the Effecis of Soctal Chas on Achlevement in Catholic and Public Schooks," in preperimion.
     approwimachy the 330d to the 67h peroritile on the sis meioure.
[^21]:    21. Recarchers aproe there are lange differences berween the sexes in mathematicn and sclence achlevement by
     Press, 1974) There has been a constreens $40-50$ potny adranerge to fivor of males on the mashemstics section of the SAT sest for decades. (See PL. Chasecty, "Futions Affecting Female Partictpmaton in Advanced Placement Programs in
    
     canegortea: 1) thone who believe k ta genetic in ortyin (eg. J. Eenhow mind Smanky, "Sex Difierences in Mathomatical
    
    
     Differencen in Quanitiative SAT Performance. Neww Evidence on the Differental Coursework Hypothests", Amertom
     conqunction with course-tidng to produce these efferx No reveanch to dite has been whle of fully explatn observedt. sex differences on the beat of copsse enrolimeras of soctal mathachan.
[^22]:    1. See Thomas Vitullo-Martin, "How Federal Poficies Discruarige the Racial and Economic Integration of Private
     Notre Deme Frexs, 1901; aho the MCEA 1982-83 Sembical Report, ap. ct.
[^23]:    2. See Cobrika of al, op ci:
     cecover the full costs of edycating non-panishoners. Given the ways in which partsh and schood finarices have been intertwined in the past, determining a fair tultion to no sample matuer.
[^24]:    
    

[^25]:    
    
    
    
    
     .iecomdary Schook 1982-43.
     Catultc Cinference, 1982. Confirencr of Angtor Supentors of wower Ammead Procredings. Washingion, DC:
     May/June, 1981, X, 1-7

[^26]:    

[^27]:    
    

[^28]:    
    

[^29]:     per student, whath is slighthy hapher than the st53 per-pupil custs in elementary schoods for 198081.

[^30]:    8. We define family dtscretionary income as the rutai family income few the income allawanke under tederal
     zolosepat fir family size.
[^31]:     Cunference, 1979, Chupters 1 and 2.
     Wather: Marquertie Eniverstry Press, 19x2, pp. 201-308

[^32]:    
     Elueflonec, Mew York: Haper and Row. 1992.

