Data from 82 teachers and 1,021 parents and students in their classrooms were used to explore the correlates of homework activities and the effects of homework on elementary school students' achievements and behaviors in school. Six groups of variables that concern homework were examined: homework time; homework appropriateness; student attitudes; teacher practices regarding parent involvement in learning activities at home; parent abilities and resources; and other student and family background variables. Although findings seemed to be counterintuitive, they indicated that at the elementary school level, low achievement in reading and mathematics, in comparison with high achievement, is associated with more time spent doing homework, more minutes of parent help, and more frequent requests from teachers for parent involvement. Thus the findings serve as a good example of the inadequacy of correlations to address questions of effects on students. Questions are raised about ways in which elementary school homework can be designed, with parents' help, to prepare students for the skills needed in the upper grades. (RH)
Center for Research On Elementary & Middle Schools

Report No. 26
July, 1988
HOMEWORK PRACTICES, ACHIEVEMENTS, AND BEHAVIORS OF ELEMENTARY SCHOOL STUDENTS
Joyce L. Epstein

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Homework Practices, Achievements, and Behaviors
Of Elementary School Students

Grant No. OERI-G-86-90006

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Published by the Center for Research on Elementary and Middle Schools, supported as a national research and development center by funds from the Office of Educational Research and Improvement, U.S. Department of Education. The opinions expressed in this publication do not necessarily reflect the position or policy of the OERI, and no official endorsement should be inferred.

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3505 North Charles Street
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Printed and assembled by:
VSP Industries
2440 West Belvedere Avenue
Baltimore MD 21215
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The mission of the Center for Research on Elementary and Middle Schools is to produce useful knowledge about how elementary and middle schools can foster growth in students' learning and development, to develop and evaluate practical methods for improving the effectiveness of elementary and middle schools based on existing and new research findings, and to develop and evaluate specific strategies to help schools implement effective research-based school and classroom practices.

The Center conducts its research in three program areas: (1) Elementary Schools; (2) Middle Schools, and (3) School Improvement.

The Elementary School Program

This program works from a strong existing research base to develop, evaluate, and disseminate effective elementary school and classroom practices; synthesizes current knowledge; and analyzes survey and descriptive data to expand the knowledge base in effective elementary education.

The Middle School Program

This program's research links current knowledge about early adolescence as a stage of human development to school organization and classroom policies and practices for effective middle schools. The major task is to establish a research base to identify specific problem areas and promising practices in middle schools that will contribute to effective policy decisions and the development of effective school and classroom practices.

School Improvement Program

This program focuses on improving the organizational performance of schools in adopting and adapting innovations and developing school capacity for change.

This report, prepared by the Elementary School Program, examines survey data from parents and teachers in exploratory analyses of how homework activities correlate with student achievement and behavior in school.
Abstract

Data from 82 teachers and 1021 parents and students in their classrooms are used to explore the correlates of homework activities and the effects of homework on elementary school students' achievements and behaviors in school. Six groups of variables that concern homework are examined: homework time, homework appropriateness, student attitudes, teacher practices of parent involvement in learning activities at home, parent abilities and resources, and other student and family background variables.

Results show that at the elementary school level, low achievement in reading and math is associated with more time spent doing homework, more minutes of parent help, and more frequent requests from teachers for parent involvement. Questions are raised about how elementary school homework can be designed, with parent help, to prepare students for the skills needed in the upper grades.
Introduction

Homework has been labeled one of the most important practices for establishing a successful academic environment in high school. Coleman, Hoffer, and Kilgore (1981) concluded that homework and discipline were the two features of private schools that made them more successful learning environments than public schools. The implication is that if public schools assigned more homework, their students would learn more and the schools would be more effective.

This prescription may be too simple. Homework policies of private schools may be geared to their self-selected population of students, who differ from the general population of students in public high schools. Thus, private school students may receive the same amount of homework as public school students in college preparatory programs, but more homework than public school students in general or commercial programs. The notion that more-is-better may not be true for all students, in all subjects, at all skill levels, at all educational levels. Indeed, if more homework is assigned than can be completed, or if inappropriate homework is assigned, then home assignments may be counterproductive for student achievement.

Most research on the effects of homework has been conducted at the secondary school level. Maughan, Moreimore, and Ouston (1979) included three items about homework in their report on secondary school effects. They reported that the assignment of homework by teachers and the doing of homework by students were positively associated with student academic performance and school behavior. They found that schools in which teachers gave frequent and large homework assignments had better student outcomes than did schools in which teachers assigned little homework. Their cross-sectional data was reported only as zero-order correlations, and could mean that schools with good, hard-working students had diligent teachers who
assigned more homework more often.

Similarly, a National Assessment of Educational Progress (NAEP) study of students’ mathematics skills showed that among 10,000 seventeen-year-olds, good students did about 10 hours of homework and watched about 5 hours of TV a week. Poor students often received no homework, and varied in the amount of TV they watched (Yeary, 1978).

Keith (1982) conducted what may be the best study available on the effects of homework on the achievement of secondary school students. Using data collected in the High School and Beyond (HSB) study, he found a modest but impressive positive effect of homework on high school grades (path coefficient = .192). Race, family background, ability, and school program (track) were statistically controlled, providing a rigorous analysis of cross-sectional data. He also showed an interesting linear relationship between hours of homework per week and school grades for students at three ability levels. The grades of low-ability students who did 10 hours of homework or more per week were as good as the grades of high ability students who did no homework. Keith’s findings suggest that students’ personal commitment to school and homework can have positive consequences of greater success in school for students at all levels of ability.

The few empirical studies of homework leave many questions unanswered. The extant studies yield mixed results, with some showing positive results from homework, others showing no results, and most based on inadequate research designs and data (Austin, 1978; Gray and Allison, 1971). Little is known about why or how homework is associated with better achievement, behavior, attendance or attitudes. We need to understand why homework is assigned, whether it is appropriate in quantity and quality, and how it is structured to fit into teaching and reteaching skills in the classroom. It is important to determine if there are measurable effects on students, net of student ability, of homework time, habits, completion, and assistance or support from parents and peers.
It is especially important to examine the effects of homework policies and practices at the elementary school level because the experiences of young students can largely determine the group or track they enter in the secondary schools. Homework would be a very important practice if it were shown to help more elementary students attain grade-level skills needed for success in middle school and junior high school.

At the elementary level, parent involvement is an important topic that relates to homework activities. We need to know whether the assistance students receive from parents actually helps the students who need the most help, and whether and how homework time and parent involvement affects the parent-child relationship.

**Purposes of Homework**

From the literature and from comments received from teachers in a survey of elementary school teachers practices of parent involvement (Epstein and Becker, 1982), we have identified seven purposes of homework:

- **Practice** (to increase speed, mastery, or maintenance of skills);
- **Participation** (to increase the involvement of each student with the learning task);
- **Personal development** (to build student responsibility, honesty, perseverance, time management, self-confidence);
- **Parent-child relations** (to establish communication between parent and child on the importance of schoolwork and learning);
- **Policy** (to fulfill directives from administrators at the district or school level for a prescribed amount of homework per week);
- **Public relations** (to inform parents about what is happening in class); or
- **Punishment** (to remind students of the teacher’s requirements for class work or behavior).

Each purpose may be important, though most teachers say that the main reason they assign homework is to give students time to practice skills learned in class (Becker and Epstein, 1982).
**Homework for practice.** Homework is time to practice skills, increase the ease with which skills can be used, and increase the students’ understanding of how and when to use the skills. Garner (1978) studied 400 fifth-, eighth-, and tenth-grade students. He measured both class time and homework time on specific subjects to establish exposure or total time in and out of school allocated to specific subjects. He found greater variation in homework than in class time for math and language arts. For example, almost one-third of the fifth-grade students in his sample had about eight more hours total exposure to language arts skills and activities than the rest of the students -- more than one extra day per week for learning and using language arts. Older students received more homework than did younger students. At the tenth-grade level, one-half hour of homework in math extended class time by 75% for more math learning. Even at the fifth-grade level, 25 minutes of math homework added half again the time of a typical math class period for learning, reviewing, or practicing math. In Garner’s study, high-ability students were given more homework and class time, especially at the high school level. Garner’s findings point to the potential value of well-planned use of homework time to extend learning time and to give time to practice skills.

**Homework for participation.** Homework increases individual participation in lessons. In many classrooms, a few children participate frequently and "carry the class" along while other children passively absorb information. By contrast, homework requires each student to participate actively and continually by reading, thinking, and recording ideas and answers on paper, and by making decisions about the completion of work. Homework is a structured opportunity for students to take control over learning and thinking. At home, students control the amount of time it takes to learn something, the number of consultations with others -- including parents and peers -- to make discoveries or to receive support for academic work. They make self-assessments on the quality of their work and can compare their self-assessments with their teachers’ marks or checks on homework completed.

**Homework for personal development.** Some teachers assign homework to help students take
responsibility for school work, to record the assignment, create a schedule to do the work, finish it and store it in their notebook, and bring it to school when it is due. They seek to build "study skills" through homework assignments to develop students' perseverance, ability to follow directions, neatness and completeness, and overall level of responsibility.

Homework as public relations: Homework is sometimes assigned to fulfill public expectations, to inform parents of work conducted at school, or to show parents how their children write, think, and execute an assignment. The illustrative purpose of homework is sometimes selected by teachers so that parents will not be surprised by children's report card grades that reflect the quality of their classwork. The idea is that whether or not the children improve, and whether or not the parents help, the school must provide information about the level and quality of the child's work to supplement the infrequent messages contained in report card grades.

Homework for parent-child interaction. Sometimes homework is the only form of serious communication about school and learning between parents and school-aged children. Children often need help in following directions, remembering and interpreting what was learned in school, relearning information that was misunderstood or incompletely learned, and deciding whether their approach and presentation will be acceptable to the teacher. Homework provides a reason for parents and their children to exchange information, facts, and attitudes about school. Maertens and Johnston (1972) found that students who had homework assignments and who received immediate or delayed feedback from parents had better mastery of math skills than students who received no homework.

There are important questions about the underlying purposes of parent involvement in learning activities at home. For example, do teachers ask for parental help in order to be responsive to the students' needs or in order to more certainly "share the blame" for the student's low achievement? Do the parents who are told how to help at home have children who make greater improvement in achievement than other parents who are asked to help at home, but not shown how to assist with learning activities?
**Homework as school policy.** Homework may be assigned to comply with district or school directives that a certain amount of homework be given to all students on certain number of days each week (McCutcheon, 1983). The recent emphasis on the definition that a "good school" is one that gives homework may influence schools to set a policy of assigning a certain amount of work in order to fulfill a requirement for being a good school.

**Homework as punishment.** Homework (I must not chew gum in school; or 500 words on appropriate behavior) may be assigned to punish students for lack of attention or for poor behavior. Punishing assignments exercise the teacher's power to *use up time at home* that would otherwise be under the student's control. The assignments often center on behavior rather than academic skills, and stress embarrassment rather than mastery.

Not all outcomes will result from any homework. Thus, in research, the outcome measured should relate to the purpose of the homework. For example, if the stated purpose of the homework is public relations, then the outcome measured should concern the understanding and attitudes of the parents; if the purpose is punishment, the outcome measure should be improved behavior; if the purpose is improved basic skills, the outcome should include a measure of the skills addressed to see if learning occurred.

If teachers, administrators, and parents define several purposes simultaneously, then multiple outcomes may be measured to determine whether all purposes are met. For some purposes, the content of the homework task may be less important than its design for the specific skill desired. Keshock (1976) reported that when college science homework was graded and counted (vs. not counted) as part of the course grade, homework performance improved but test scores did not. Also, in a Los Angeles PUSH-EXCEL program, students were asked to work uninterrupted from 7 to 9 pm on home learning activities. This requirement improved homework behaviors, but reports were not available on whether achievement was improved (Yeary, 1978).

Using data from the International Association for the Evaluation of Educational Achieve-
ment (IEA), Wolf (1979) reported that homework time was important for specific academic subjects. He reported significant correlations between homework in science and literature and achievement in those subjects at the school and individual student levels. However, in regression analyses that accounted for family background and instructional program (track), variables were entered in blocks, making it impossible to pinpoint the independent effects of homework (compared to other instructional variables) on achievement. The results show only that good students do more homework than poor students in science and literature. The important point from this research, however, is that homework in one subject may affect outcomes in that subject only, and may not have a general effect on achievement test scores or other student attitudes and behaviors. So it is important to know exactly what homework is assigned and to measure results appropriately.

Data and Approach

In this study, the following information about homework was collected from each source involved in the homework process.

*Data from teachers*: Homework policies of the school and district, amount of homework assigned, subjects of homework, purpose of homework, attitudes and policies about parental help with or corrections of homework, policy of requiring parents to sign homework, estimates of students who complete homework, nominations of students who have problems with homework or who are homework "stars," and use of class time to check or correct homework.

*Data from principals*: District and school policies, procedures to check teachers' homework assignments, and attitudes about whether parents should help with homework.

*Data from parents*: Amount of time child spends on homework, teachers' policies on parental help on homework, evaluation of appropriate level of difficulty of homework assigned to the child, child's understanding and completion of homework, and communications with the teacher about homework.
Data from students: Amount of homework assigned and completed; weekend homework; habits of doing homework; help at home on homework; parent's knowledge of homework assignments; problems and completion of homework; appropriate level of challenge in homework; attitudes about homework, and written comments.

Surveys of teachers, principals, parents and students in 16 Maryland school districts were conducted in 1980 and 1981. About 3700 first-, third-, and fifth-grade teachers and their principals in 600 schools were surveyed (Becker and Epstein, 1982; Epstein and Becker, 1982). From the original sample, 36 teachers were identified who strongly emphasized parent involvement in learning activities at home. These "case" teachers were selected at random from a stratified sample of leaders in parent involvement to represent the three grade levels; the urban, suburban, and rural districts; the socioeconomic conditions of the communities in the state; and the teachers' education, experience, and teaching conditions. Then, 46 "control" teachers were matched to the case teachers on the same selection criteria, but these teachers were not leaders in their use of parent involvement in learning activities at home.

The case and control teachers and their principals were interviewed at length about instructional practices in general, and parent involvement practices and leadership. The parents of the children in the 82 teachers' classrooms were surveyed about their attitudes toward and experiences with parent involvement. In all, 1269 parents responded by mail to the survey -- a response rate of 59%. About 600 fifth-grade students were surveyed about their homework activities. The characteristics of the samples of case and control teachers, the students and their parents is documented in Becker and Epstein (1982), and Epstein (1982, 1983).

This report uses data from parents and teachers in exploratory analyses of the correlates of homework activities and student achievements and behaviors in school.
Exploratory Analyses

With these perspectives on homework to guide the inquiry, we have begun to examine data from elementary school teachers, principals, students, and parents on homework policies, procedures, and effects. We are especially interested in how the two institutions -- home and school -- interact to build homework habits and to improve achievements and school-related behaviors. Table 1 presents six groups of variables that concern homework and shows their zero-order correlations with reading and math achievements, homework performance, and classroom behavior. The six sets of variables and their scoring are:

*Homework Time.* Minutes spent per day is a 5-point score from no homework to one hour or more; minutes parent helps or could help per day is an 8-point score from no minutes to one hour or more.

*Homework Quality.* Appropriate amount and difficulty are 3-point scores from too easy to too difficult and too little to too much; appropriate purpose is a 4-point score of parent disagreement that homework is just busywork (scored negatively).

*Student Attitudes.* Parent recognition that the child likes to talk about school and homework, and that the child is tense about homework (scored negatively), are 4-point scores from strongly agree to strongly disagree.

*Teacher Practices.* Parents' reported the frequency of use of twelve practices of parent involvement including reading, discussion, informal activities, formal contracts and signing homework, tutoring, and drill and practice. Parents' reports that the teacher thinks parents should help, and reports that they receive many ideas from the teacher, are 4-point scores from strongly agree to strongly disagree. Parents agreed or disagreed that the teacher talked to them directly about their child's homework, need for parental help at home, or classroom behavior. Ratings
by parents or principals on the overall quality of the teacher are 6-point scores from poor to outstanding.

*Parent Abilities and Resources.* Parent education is a 6-point score from less than high school to graduate school; confidence in ability is a 4-point score from strongly agree to strongly disagree that they have enough training to help the child in reading and math. Educational items is a check list of ten items that students may use at home for homework including a ruler, dictionary, globe, and others. Number of books at home is a 5-point score ranging from fewer than 10 to more than 100 books. Regular place for homework is a single item of agreement or disagreement.

*Other Student and Family Factors.* Sex of student is scored female=1, male=0; race is scored white=1, black=0; residence is scored 1=city, 0=suburb/rural; family structure is scored 1 or 2 for one or two parents home; 1 or 0 for mother works or does not work outside the home; hours of TV per day ranging from none to 5 or more hours; parent expectations for child's education is a 4-point score from finish high school to finish graduate school; and grade level refers to the student's grade, 1, 3 or 5.

**Homework Practices and Student Skills and Behaviors**

*Homework Time.* Section I of the table shows how three measures of homework time correlate with student achievements and behaviors. The three measures are the average number of minutes spent by the child on homework per day; the average number of minutes the parent helps the child in response to teacher requests; and the number of minutes the parent could help if shown how to do so.

The time spent doing homework ranged from none (13%), to 15 minutes (21%), 30 minutes (36%), 45 minutes (13%) and one hour or more (17%). Parents helped on the average of 25
minutes per night when asked to do so by teachers, but said they could help out 45 minutes per night if the teacher showed them how to help.

The relationships between homework time and between parent help on student achievements in reading and math are negative. That is, students who spend more time on homework and get more help from parents have lower achievement in reading and math than students who spend less time on homework. The relationship is especially strong between more minutes of parent help and lower achievement. These negative relationships indicate that teachers are reaching out to parents to obtain extra help for children who need additional learning time, or that parents are recognizing students' weaknesses and helping on their own. Children who are doing well in school spend less time and need less help from parents than do weaker students.

Other analyses show that some teachers make high requests for assistance of all students' parents (Epstein, 1983). We will be interested in the effects on school achievements and behaviors of parent involvement in homework activities for low, average, and high achieving students who are in the classrooms of teachers who do and do not emphasize parent involvement activities.

The right side of the table in section I shows the associations of homework time and school-related behaviors. When children do more homework, their teachers consider more of them to be homework "stars." Parents of homework stars—not homework "problems"—say they could spend more time assisting their children—probably because the parents of homework problems already spend more time assisting their children.

It seems counter-intuitive to say that the more time spent on homework, the lower the student achievement. This is a good example of the inadequacy of correlations to address questions of "effects" on students. The patterns reported here are indicative of some well-known facts about elementary school students. First, at the elementary school level, all students are likely to be assigned the same type of homework, if not the same homework activities. The same type of activity (learning 20 spelling words; completing 10 math problems) may take slow students...
longer than bright students to complete. Students who have problems learning in school need to spend more time on a homework activity in order to understand what other children mastered in class. Teachers may ask parents to see that the children finish their work, even if they do not ask the parents to help the child with needed skills. Thus, the child will spend more time on homework and the parent will spend more time monitoring or helping if, for example, the parent is asked to sign each night's completed work.

We will use data from teachers on the average amount of homework they assign to compare assigned or expected time with time spent by individual students. The real tests of homework time require longitudinal analyses that examine the changes in achievements or behaviors as a result of time spent for students at different ability levels.

The relationships at the elementary school level with homework time are important because they differ from relationships noted for secondary school students. The younger students and their families are still trying to be responsive to school demands for mastering basic skills and the children and their parents spend more time working on needed skills. Somewhere between the elementary and junior high school years, the philosophies of the schools, the students, and their parents change. Brighter students spend more time on homework and slower students and their parents stop working on mastering basic skills. The discrepancy suggests an important topic for new efforts at school improvement to continue to mobilize parent assistance for students who need the most help.

Homework Quality. Section II of Table 1 features three measures of parents' estimates of the appropriateness and value of the homework their children receive. There are no significant correlations of these measures with achievements or behaviors. One reason for this is the lack of variation in the parents' ratings. About 92% of the parents agreed that homework was not busy work, 90% said that the child's work was the appropriate level of difficulty, and 78% thought the child received the right amount of homework.
**Student Attitudes.** Section III explores the relationships between two student attitudes toward homework and student achievement and behavior. Children who like to talk about school and homework with a parent and children who are not tense about working with the parent on home learning activities have higher reading and math skills and are more often considered homework "stars." Children who do not like to talk about school and homework are more apt to be homework and discipline problems.

In this sample, close to 20% of the elementary school students do not like to talk about school with their parents, and 35% get tense working with their parents on homework. These attitudes about school that are displayed at home may be early warning signals of more serious problems. Teachers may be able to help parents learn how to help their children to build confidence and positive attitudes about school and homework. Positive attitudes toward school are good indicators of day-to-day success in school, commitment to school goals, and the likelihood of staying in school (Epstein, 1981).

**Teacher Practices.** Section IV includes measures of teacher practices of parent involvement concerning homework that could be associated with student achievement and behavior. The correlations shown here support the information from Section I that parents spend more time with children who need more help, but these items document that more parent time is given in response to requests from teachers.

Parents say they receive more frequent requests, more messages that they should help, and more direct communications from teachers about how to help at home when their children are low in reading and math skills. Principals and parents, however, tend to rate the teacher higher in overall teaching quality when the students are high in achievement.

The right hand columns in section IV show that teachers talk directly with parents about homework activities if the students are homework "problems" \( r = .118 \) and talk directly with parents about school behavior of students who are classroom discipline problems \( r = .275 \).
These correlations suggest that teachers reach out to parents when they need help solving homework and discipline problems. Teacher practices of parent involvement are not as highly correlated with homework completion or discipline problems as they are with student achievements.

**Parent Abilities and Resources.** Section V examines five measures of parent abilities and resources that may aid student achievements and behaviors. Four measures are significantly and positively correlated with reading and math skills: parent education, confidence about ability to help in reading and math, educational items in the home, and books in the home. When these resources are lacking at home, the child is more likely to be a homework "problem."

Having a regular place for homework is not highly associated with achievement or behavior. Others have also reported that a regular place for homework is not as important as a regular habit of completion (McCutcheon, 1983). In these data, the lack of importance of the variable is probably due to the lack of variation in the responses, with about 91% of the families reporting that the children have a regular place for doing homework.

**Other Student and Family Factors.** Section VI shows the association of other family factors that are believed to affect homework activities, achievements and behaviors. There are strong correlations between race (white), location (non-city residence), and two-parents home with math (but not reading) skills. Parents' educational expectations for the child are associated with reading and math achievements and behavior.

Some family variables are less important than might be expected from popular opinion. Hours of TV per day is not correlated with math or reading skills. There is no association of mother working outside the home with reading or math achievements, homework completion, or classroom behaviors. The patterns are not affected by grade level. Thus, there are high and low achieving students, and well- and poorly-behaved students at all grade levels, and in families in which mothers do and do not work outside the home.
We see the expected patterns that female students do better in reading skills and are more often labeled homework star whereas males are more often labeled discipline problems. These associations make it clear that multivariate analyses are needed that take into account family socioeconomic factors that affect achievements and behaviors so that the independent effects of homework can be identified.

Summary and Discussion

Overall, across the six groups of variables several intriguing patterns emerge.

_Reading and math skills:_ Low achievement is associated with more time spent doing homework, more minutes of parent help, and more frequent requests from teachers for parent involvement in learning activities at home. The significant negative associations indicate that in the elementary school parents are asked to assist children who need more help. At this level of schooling, not much homework is assigned per night, and students who have trouble with the work can work a little longer to complete the assignment.

By the time students are in high school much more homework is given, and more is given to brighter students (Garner, 1978). Poor students in high school tend not to work long on what they do not understand, and typically do not expect (and may not want) their parents' help. High school teachers do not ask parents to help.

_Homework and classroom behavior:_ Parents report spending more time helping children that teachers consider to be discipline and homework problems. The parents of other children say they could spend more time helping their children at home if they were shown how to do so. There is a supply of "untapped" parental assistance available to teachers which may be especially useful in improving the skills of "average" students who could do better with additional time and attention.

One important correlate of homework and discipline problems was the lack of "educational
trappings" at home (e.g., books, rulers, globes, dictionaries, art supplies). Teachers who seek parental help in solving student homework and discipline problems may need to make educational resources available for use at home.

**Importance of attitudes:** Children who like to talk about school and homework with their parents tend to be the students who are good students, homework stars, and well-behaved in class. Children who are tense when working with their parents on homework activities are more often homework problems. Yet these are the children whose parents are asked by teachers to spend more minutes helping at home. Parents of children who have problems in school require guidance on *how to help* children, or else the school problems could be redoubled by ineffective teaching at home.

Homework is a manipulable variable. Teachers and administrators control whether to assign homework and how much homework to assign. They develop the parameters that encourage or prevent parent involvement in the learning activities that students bring home. Our work indicates that a simple association of homework time (assigned or spent) and student achievement is not enough to understand when homework is important for effective teaching and learning. The "bottom line" concerning homework is whether more time spent by children who need the most help "pays off" in the improvement or maintenance of school achievements, homework behaviors, and other school attitudes.
References


Keshock, E. G. The relative value of optional and mandatory homework. *Teaching Method


### Homework Variables as Correlates of Student Achievements and Behaviors

<table>
<thead>
<tr>
<th></th>
<th>Achievements</th>
<th>Behavior</th>
<th>Mean/S.D.</th>
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<tbody>
<tr>
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<td>Reading</td>
<td>Math</td>
<td>Homework</td>
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<td><strong>I. Homework Time</strong></td>
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<td>Star</td>
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<td>Minutes Spent</td>
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<td>-.052</td>
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<td>-.195</td>
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<td>Minutes Parents Could Help</td>
<td>-.042</td>
<td>-.077</td>
<td>.090</td>
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| **II. Homework Quality** | | | |
| Appropriate Amount      | .019          | -.033             | -.075     | .030     | .041       | 2.16/0.53  |
| Appropriate Difficulty  | .032          | .025              | -.021     | .012     | .053       | 2.07/0.40  |
| Appropriate Purpose     | .047          | .025              | .045      | .009     | .012       | 3.61/0.72  |

| **III. Student Attitudes** | | | |
| Likes to talk about school and homework | .131 | .117 | .140 | -.132 | -.124 | 3.35/0.93 |
| Not tense about homework | .179 | .141 | .074 | -.119 | -.032 | 2.90/1.16 |

| **IV. Teacher Practices** | | | |
| Frequent Requests for Parent Involvement | -.137 | -.123 | .054 | .043 | .020 | 3.98/3.36 |
| Teacher Thinks Parents Should Help | -.187 | -.172 | -.025 | .013 | -.007 | 2.20/0.82 |
| Parent Receives Ideas from Teacher | -.061 | -.077 | .063 | .019 | -.042 | 2.44/1.17 |
| Teacher Talked to Parent About (a) Homework | -.087 | -.137 | -.070 | .118 | .012 | 0.18/0.38 |
| (b) Parent Help at Home | -.132 | -.110 | .018 | -.008 | -.032 | 0.22/0.42 |
| (c) Behavior | -.055 | -.072 | -.012 | .081 | .275 | 0.46/0.50 |
| Parent Rating of Teacher Quality | .060 | .093 | .105 | -.026 | -.077 | 3.76/1.19 |
| Principal Rating of Teacher Quality | .113 | .093 | -.044 | -.085 | .003 | 2.52/1.04 |

| **V. Parent Abilities and Resources** | | | |
| Parent Education | .196 | .238 | .027 | -.100 | -.057 | 2.60/1.23 |
| Confidence in Ability to Help | .140 | .166 | .085 | -.073 | -.034 | 3.12/1.11 |
| Educational Items at Home | .236 | .262 | .071 | -.105 | -.136 | 4.67/2.53 |
| Number of Books at Home | .161 | .192 | .060 | -.095 | -.078 | 3.97/1.20 |
| Regular Place for Homework | -.043 | -.056 | -.053 | .080 | .019 | 1.09/0.29 |

| **VI. Other Student and Family Factors** | | | |
| Sex (Female) | .093 | .033 | .129 | -.075 | -.201 | 1.50/0.50 |
| Race (White) | .083 | .155 | .015 | -.005 | -.064 | 0.64/0.48 |
| Residence (City) | -.043 | -.146 | .008 | -.018 | .034 | 0.35/0.48 |
| Two-Parent Home | .057 | .142 | .085 | -.066 | -.056 | 1.76/0.43 |
| Mother Works | -.018 | .021 | .015 | .027 | -.019 | 0.61/0.49 |
| Hours TV | -.053 | -.082 | .009 | .003 | .057 | 2.36/1.17 |
| Parent Expectations for Student Education | .316 | .308 | .090 | -.137 | -.082 | 2.39/1.13 |
| Grade Level | -.002 | .045 | .033 | .036 | -.015 | 2.89/1.70 |

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**a/** N = 1021 students whose parents participated in the survey for whom information on classroom achievements and behavior were provided by the teacher.

**b/** Correlations of .08 or higher are significant at or beyond the .01 level.