# Appendix A Technical Notes and Glossary

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## Appendix A Technical Notes and Glossary

#### A.1 Overview of the Technical Appendix

The National Center for Education Statistics (NCES) of the U.S. Department of Education has collected longitudinal data for more than 30 years. Starting in 1972 with the National Longitudinal Study of the High School Class of 1972 (NLS-72) and continuing to the most recent study, the Education Longitudinal Study of 2002 (ELS:2002) NCES has provided longitudinal and trend data to education policymakers and researchers that link secondary school educational achievement and experiences with important downstream outcomes, such as entry into the labor market and postsecondary educational access and attainment.

The base year of ELS:2002 represents the first stage of a major effort designed to provide data about critical transitions experienced by students as they proceed through high school and into postsecondary education or their careers. The 2002 sophomore cohort will be followed, initially at 2-year intervals, to collect policy-relevant data about education processes and outcomes, especially as such data pertain to student learning, predictors of dropping out, and students' access to, and success in, postsecondary education and the work force.

The first section of this appendix details ELS:2002 study objectives; lists some of the major research and policy issues that the study addresses; explains the four levels of analysis—cross-sectional, longitudinal, cross-cohort, and international comparison—that can be conducted with ELS:2002 data; and supplies an overview of the base-year study design and methodology.

This section is followed by discussions of base-year sampling, weighting, response rates, quality of estimates, standard errors, and electronic codebooks. Next, an account is provided of the statistical procedures employed. Finally, a glossary is provided that documents the specific variables used in the analyses in this report.

#### A.2 Overview of ELS:2002

#### A.2.1 Study Objectives

ELS:2002 is a longitudinal study, in which the same units are surveyed repeatedly over time. Individual students will be followed until about age 30; the base-year schools will be surveyed twice (they were surveyed in 2002 and will be surveyed again in 2004). In the high school years, ELS:2002 is an integrated multilevel study, involving multiple respondent populations, including students, their parents, their teachers, and their schools (from which data are collected at three levels: from the principal, the librarian, and a facilities checklist). This multilevel focus will supply researchers with a comprehensive picture of the home, community,

and school environments. This multiple-respondent perspective is unified by the fact that, for most purposes, the student is the basic unit of analysis.<sup>1</sup>

Key elements in the ELS:2002 longitudinal design are summarized by wave below.

#### *Base Year* (2002)

- Baseline survey of high school sophomores completed in spring term 2002.
- Cognitive tests in reading and mathematics completed.
- Surveys of parents, English teachers, and math teachers completed. School administrator questionnaires also collected.
- Additional components for this study included a school facilities checklist and a media center (library) questionnaire.
- Sample sizes of approximately 750 schools and over 17,000 students. Schools were the first-stage unit of selection, with sophomores randomly selected within schools.
- Oversampling of Asians and private schools.
- Design linkages (test score equating in reading and mathematics, some questionnaire items in common) with the Program for International Student Assessment (PISA) and score reporting linkages to the prior longitudinal studies (the High School and Beyond longitudinal study [HS&B] and the National Education Longitudinal Study of 1988 [NELS:88]).

#### First Follow-up (2004)

- Follow-up in 2004, when most sample members are seniors, but some are dropouts or in other grades.
- Student questionnaire, dropout questionnaire, assessment in mathematics, and school administrator questionnaire to be administered.
- Return to the same schools, but separately follow transfer students.
- Freshening for a 2004 senior cohort.
- High school transcript component in 2004 (coursetaking records for grades 9–12).
- Design linkages (test equating in mathematics) with the National Assessment of Educational Progress (NAEP) and NELS:88.

#### Second Follow-up (2006)

- Post-high-school follow-ups using a single questionnaire with branching of questions to accommodate the diverse pathways followed by the cohort.
- Questionnaire will be available in multiple electronic modalities: web for selfadministration, computer-assisted telephone interview, computer-assisted personal interview.

<sup>&</sup>lt;sup>1</sup> Base-year school administrator, library media center, and facilities data can be used to report on the nation's schools with 10th grades in the 2001–02 school year. However, the primary use of the school-level data (and the purpose of parent and teacher surveys) is to provide further contextual information on the student.

#### Further Follow-ups

• Number of (and dates for) further follow-ups to be determined.

#### A.2.2 ELS:2002 Research and Policy Issues

Apart from helping to describe the status of high school students and their schools, ELS:2002 will provide information to help address a number of key policy and research questions. The study is intended to produce a comprehensive dataset for the development and evaluation of education policy. Part of its aim is to inform decisionmakers, education practitioners, and parents about the changes in the operation of the education system over time. Issues that can be addressed with data collected in the high school years include the following:

- students' academic growth in mathematics;
- the process of dropping out of high school;
- the relationship between family background, the home education support system, and students' educational success;
- the relationship between coursetaking choices and success in the high school years (and thereafter);
- the distinctive school experiences and performance of students from various subgroups, including
  - students in public and private high schools;
  - language minority students;
  - students with disabilities:
  - students in urban, suburban, and rural settings;
  - students in different regions of the country;
  - students from upper, middle, and lower socioeconomic status (SES) levels;
  - male and female high school students; and
  - students from different racial or ethnic groups; and
- steps taken to facilitate the transition from high school to postsecondary education or the world of work.

After ELS:2002 students have completed high school, a new set of issues can be examined. These issues include

- the later educational and labor market activities of high school dropouts;
- the transition of those who do not go directly on to postsecondary education or to the world of work;
- access to, and choice of, undergraduate and graduate educational institutions;
- persistence in attaining postsecondary education goals;

- rate of progress through the postsecondary curriculum;
- degree attainment;
- barriers to persistence and attainment;
- entry of new postsecondary graduates into the workforce;
- social and economic rate of return on education to both the individual and society; and
- adult roles, such as family formation and civic participation.

#### A.2.3 Analytic Levels

These research and policy issues can be investigated at several distinct levels of analysis. The overall scope and design of the study provide for the four following analytical levels:

- cross-sectional profiles of the nation's high school sophomores and seniors (as well as dropouts after spring of the sophomore year);
- longitudinal analysis (including examination of life-course changes);
- intercohort comparisons with American high school students of earlier decades; and
- international comparisons: U.S. 15-year-olds to 15-year-olds in other nations.

**Cross-Sectional Profiles.** Cross-sectional data will permit characterization of the nation's high school sophomores in the spring of the 2001–02 school year. Initial cross-sectional findings from the base year are presented in this report. Because of sample freshening, the results 2 years later will provide a basis for profiling the nation's high school seniors in the spring term of the 2003–04 school year.

**Longitudinal Analysis.** Longitudinal analysis will become possible when data are available from the 2004 first follow-up. The primary research objectives of ELS:2002 are longitudinal in nature. The study provides the basis for within-cohort comparison by following the same individuals over time to measure achievement growth in mathematics, monitor enrollment status over the high school years, and record such key outcomes as postsecondary entry and attainment, labor market experiences, and family formation. These outcomes, in turn, can be related to antecedents identified in earlier rounds, including individual, home, school, and community factors.

Intercohort Comparisons. As part of an important historical series of studies that repeats a core of key items each decade, ELS:2002 offers the opportunity for the analysis of trends in areas of fundamental importance, such as patterns of coursetaking, rates of participation in extracurricular activities, academic performance, and changes in goals and aspirations. A 1980–2002 NCES high school sophomore trend report is currently in preparation. With completion of the first follow-up in 2004, researchers will be able to compare ELS:2002 high school seniors' experience, attitudes, and achievement with that of NELS:88 seniors in 1992, HS&B seniors in 1980 and 1982, and NLS-72 seniors in 1972. Such cross-cohort comparisons

are of particular importance to measuring the nation's progress in achieving educational opportunities and in measuring the outcomes of school reform and related initiatives.

Starting with the ELS:2002 first follow-up, trend comparisons can also be made with academic transcript data containing students' high school course histories and sequences, since comparable transcript studies have been conducted, starting with HS&B (1982) and including NELS:88 (1992) and NAEP (1987, 1990, 1994, 1998, and 2000).

International Comparisons. A feature of ELS:2002 that expands the study's power beyond that of the predecessor studies is that it can be linked to international assessments. Specifically, ELS:2002 base-year reading results have been put on the PISA:2000 literacy scale and will be put on the PISA:2003 mathematics scale. The Organization for Economic Cooperation and Development's (OECD's) PISA is an internationally standardized assessment, jointly developed by the 32 participating (2000) countries (including the United States) and administered to 15-year-olds in groups in their schools (see Lemke et al. [2001]). PISA covers three domains: reading literacy, numeracy, and scientific literacy; a subset of the PISA reading literacy and numeracy items have been included on ELS:2002. PISA aims to define each domain not merely in terms of mastery of the school curriculum, but also in terms of important knowledge and skills needed in adult life. Emphasis is placed on the mastery of processes, the understanding of concepts, and the ability to function in various situations within each domain.

#### A.2.4 Overview of the Base-Year Study Design and Content

ELS:2002 was carried out in a national probability sample of 752 participating (of 1,221 eligible contacted) public, Catholic, and other private schools, in the spring term of the 2001–02 school year. Of 17,591 eligible selected sophomores, 15,362 completed a base-year questionnaire, as did 13,481 of their parents and 7,135 of their teachers.<sup>2</sup> Of the 752 participating schools, 743 principals and 718 librarians completed questionnaires.

Seven study components comprised the base-year design: assessments of students (achievement tests in mathematics and reading); a survey of students; surveys of parents, teachers, school administrators, and librarians; and a facilities checklist (completed by survey administrators, based on their observations at the school). The student assessments measured achievement in mathematics and reading; the baseline scores can serve as a covariate or control variable for later analyses. Mathematics achievement will be reassessed 2 years hence, so that achievement gain over the last 2 years of high school can be measured and related to school processes and mathematics coursetaking. The student questionnaire gathered information about the student's background, school experiences and activities, plans and goals for the future, employment and out-of-school experiences, language background, and psychological orientation toward learning.

One parent of each participating sophomore was asked to respond to a parent survey. The parent questionnaire was designed to gauge parental aspirations for the child, home background and the home education support system, the child's educational history prior to 10th

<sup>&</sup>lt;sup>2</sup> Note that the participating student sample defines the eligible parent and teacher samples. The 7,135 teacher completions are those linked to student respondents. Of the 15,362 student participants, 14,081 had at least one associated teacher-provided student report.

grade, and parental interactions with and opinions about the student's school. For each student enrolled in English or mathematics, a teacher was also selected to participate in a teacher survey. Teachers typically (but not invariably) reported on multiple ELS:2002 sophomores. The teacher questionnaire collected the teacher's evaluation of the student and provided information about the teacher's background and activities. The head librarian or media center director at each school was asked to complete a library media center questionnaire, which inquired into the school's library media center facility, its staffing, its technological resources, collection and expenditures, and scheduling and transactions. Finally, the facilities checklist was a brief observational form completed for each school. The form collected information about the condition of school buildings and facilities. Information about coursetaking (covering all years of high school and including the sequence in which courses were taken and grades earned) will be collected at the end of high school, through the high school transcript component of the ELS:2002 first follow-up study.

For key classification variables, missing data were replaced with imputed values. Single imputation (by means of a weighted sequential hot deck procedure) was implemented for missing key questionnaire variables. Multiple imputation of the ability estimate (*theta*) was used to treat missing assessment data. Table A-4 below lists variables subject to imputation and proportions missing. (Further details may be found in Ingels et al. [2004], section 3.3.) The dataset was also subject to disclosure risk analysis and disclosure avoidance editing, including, among other measures, such perturbation techniques as data swapping. (For details of disclosure risk analysis and protections, see Ingels et al. [2004], section 3.6).

Further details of the instrumentation, sample design, data collection results, data processing, and data files available for analysis may be found in the *Education Longitudinal Study of 2002: Base Year Data File User's Manual* (Ingels et al. 2004).<sup>3</sup>

### A.3 Sample Design, Weighting, Response Rates, Quality of Estimates, Standard Errors, and the Electronic Codebook

#### A.3.1 Sampling

The ELS:2002 base-year sample design began with a nationally representative, two-stage stratified probability sample. The first stage of selection was schools; schools were selected with probability proportional to size (PPS). The public school sample was stratified by the nine U.S. Census divisions and by urbanicity (metropolitan status of urban, suburban, or rural). Private schools (Catholic and other private) were stratified by four levels of geography (Census region) and urbanicity; private schools were oversampled. The target sample size was 800 schools. Cooperation was sought from 1,221 eligible selections. The realized sample comprised 752 participating 10th-grade schools. The second stage of selection was students. Of 17,591 sampled students in the schools, 15,362 students participated. Some groups (e.g., Asians) were oversampled.

<sup>3</sup> See appendix reference list (section A.6) for full citation. The manual can be downloaded from the NCES website: <a href="http://nces.ed.gov/pubsearch">http://nces.ed.gov/pubsearch</a>.

#### A.3.2 Weighting

The general purpose of the weighting scheme was to compensate for unequal probabilities of selection of schools and students into the base-year sample and to adjust for the fact that not all schools and students selected into the sample actually participated. Three sets of weights were computed: a school weight, a weight for student questionnaire completion, and a contextual data weight for the "expanded" sample of questionnaire-eligible and questionnaire-ineligible students. School and student weights were adjusted for nonresponse, and these adjustments were designed to significantly reduce or eliminate nonresponse bias for data elements known for most respondents and nonrespondents. In addition, school weights were poststratified to known population totals. The estimates in this report were produced using BYSTUWT, a cross-sectional weight that generalizes to the population of 10th-graders in regular U.S. high schools in the spring term of the 2001–02 school year.

#### A.3.3 Response Rates

Of 1,221 eligible contacted schools, 752 participated in the study, for an overall weighted school participation rate of approximately 68 percent (62 percent unweighted). Of 17,591 selected eligible students, 15,362 participated, for an overall weighted student response rate of approximately 87 percent.<sup>5</sup> (School and student weighted response rates reflect use of the base weight [design weight] and do not include nonresponse adjustments.) School and student unit nonresponse bias analyses were performed, as well as an item nonresponse bias analysis for the questionnaires. The school-level bias due to nonresponse prior to computing weights and after computing weights was estimated based on the data collected from both respondents and nonrespondents, as well as sampling frame data. At the unit level (but not the item level), weighting techniques were employed to reduce detected bias, and after final nonresponse adjustments, the remaining relative bias ranged from 0 to 0.2 percent for schools and from 0 to 0.07 percent for students. For details of the bias analyses, see the Education Longitudinal Study of 2002: Base Year Data File User's Manual (NCES 2004-405). Unweighted and weighted school-level response by stratum is summarized in table A-1. Second-stage unit response rates by component are summarized in table A-2; weighted item response rates for all unimputed analysis variables are shown in table A-3; the weighted proportions for missing data that were imputed are shown in table A-4.

#### A.3.4 Quality of Estimates: Reliability and Validity Data

Most of the items used in the ELS:2002 base-year questionnaires were taken from prior studies, particularly HS&B and NELS:88. Given their past use with large, nationally representative samples, their measurement characteristics are well established. A number of data quality studies have been conducted using these items. Interested readers should see, in particular, Fetters, Stowe, and Owings (1984), Kaufman and Rasinski (1991), and McLaughlin and Cohen (1997). Data quality analyses for the subset of new questionnaire items used in

<sup>&</sup>lt;sup>4</sup> The expanded sample weight generalizes to the population of all sophomores, regardless of whether they were capable of completing the questionnaire. The regular student questionnaire weight (BYSTUWT) generalizes only to the population of students who were eligible to complete the student questionnaire, that is, those who were not judged incapable of participation by virtue of a severe disability or lack of proficiency in the English language.

<sup>5</sup> Stage 1 (school) response rates can be multiplied by stage 2 (student) response rates for a combined two-stage response rate: 68 percent \* 87 percent = 59 percent.

ELS:2002 (as well as the reading and mathematics assessments) will be found in the base-year field test report (Burns et al. 2003). The base-year data file user's manual (Ingels et al. 2004) also addresses issues of questionnaire and assessment data quality.

Table A–1. Unweighted school sampling and eligibility, and unweighted and weighted participation, by sampling stratum: 2002

School	Sampled schools		Eligible	Eligible schools		Participating schools		
sampling stratum	Number	Unweighted Percent <sup>1</sup>	Number	Unweighted Percent <sup>2</sup>	Number	Unweighted Percent <sup>3</sup>	Weighted Percent	
Total	1,268	100.00	1,221	96.29	752	61.59	67.80	
Public	953	75.16	926	97.17	580	62.63	69.09	
Catholic	140	11.04	140	100.00	95	67.86	74.04	
Other								
private	175	13.80	155	88.57	77	49.68	62.94	
Urban	434	34.23	414	95.39	250	60.39	67.27	
Suburban	630	49.68	609	96.67	361	59.28	59.81	
Rural	204	16.09	198	97.06	141	71.21	79.32	

Percent is based on overall total within column. Details may not sum to 100 percent due to rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002).

Table A-2. Summary of ELS:2002 base-year completion and coverage rates: 2002

Instrument	Selected	Participated	Weighted percent	Unweighted percent
Student questionnaire	17,591	15,362	87.28	87.33
Student assessment <sup>1</sup>	15,362	14,543	95.08	94.67
Parent questionnaire <sup>2</sup>	15,362	13,488	87.45	87.80
Teacher ratings of students <sup>3</sup>	15,362	14,081	91.64	91.66
School administrator questionnaire	752	743	98.53	98.80
Library media center questionnaire	752	718	95.93	95.48
Facilities checklist	752	752	100.00	100.00

<sup>&</sup>lt;sup>1</sup>Percentage of cases for which a student questionnaire was obtained and for which a cognitive test was also obtained. Note that test scores have been imputed where missing so that test scores are available for all 15,362 questionnaire completers.

<sup>2</sup>Indicates a coverage rate, the proportion of participating students with a parent report. More parents participated;

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002).

<sup>&</sup>lt;sup>2</sup> Percent is based on number sampled within row.

<sup>&</sup>lt;sup>3</sup> Percent is based on number eligible within row.

Indicates a coverage rate, the proportion of participating students with a parent report. More parents participated; these completion rates reflect the number of records in the public-use data file, where parent (and teacher) data were excluded for students who did not complete a base-year student questionnaire.

<sup>&</sup>lt;sup>3</sup>Indicates a coverage rate: ratings obtained from at least one teacher.

Table A-3. Weighted response rates for unimputed variables used in this report: 2002

	<u> </u>	-	Response
			rate,
Source	Variable label	Variable	percent <sup>1</sup>
Administrator	Baseball offered to males	BYA19AA	89.8
Administrator	Baseball offered to females	BYA19AB	89.2
Administrator	Softball offered to males	BYA19BA	89.8
Administrator	Softball offered to females	BYA19BB	89.2
Administrator	Basketball offered to males	BYA19CA	89.8
Administrator	Basketball offered to females	BYA19CB	89.2
Administrator	Football offered to males	BYA19DA	89.8
Administrator	Football offered to females	BYA19DB	89.2
Administrator	Soccer offered to males	BYA19EA	89.8
Administrator	Soccer offered to females	BYA19EB	89.2
Administrator	Swim team offered to males	BYA19FA	89.8
Administrator	Swim team offered to females	BYA19FB	89.2
Administrator	Ice hockey offered to males	BYA19GA	89.8
Administrator	Ice hockey offered to females	BYA19GB	89.2
Administrator	Field hockey offered to males	BYA19HA	89.8
Administrator	Field hockey offered to females	BYA19HB	89.2
Administrator	Volleyball offered to males	BYA19IA	89.8
Administrator	Volleyball offered to females	BYA19IB	89.2
Administrator	Lacrosse offered to males	BYA19JA	89.8
Administrator	Lacrosse offered to females	BYA19JB	89.2
Administrator	Tennis offered to males	BYA19KA	89.8
Administrator	Tennis offered to females	BYA19KB	89.2
Administrator	Cross-country offered to males	BYA19LA	89.8
Administrator	Cross-country offered to females	BYA19LB	89.2
Administrator	Track offered to males	BYA19MA	89.8
Administrator	Track offered to females	BYA19MB	89.2
Administrator	Golf offered to males	BYA19NA	89.8
Administrator	Golf offered to females	BYA19NB	89.2
Administrator	Gymnastics offered to males	BYA19OA	89.8
Administrator	Gymnastics offered to females	BYA19OB	89.2
Administrator	Wrestling offered to males	BYA19PA	89.8
Administrator	Wrestling offered to females	BYA19PB	89.2
Administrator	Cheerleading offered to males	BYA19QA	89.8
Administrator	Cheerleading offered to females	BYA19QB	89.2
Administrator	Drill team offered to males	BYA19RA	89.8
Administrator	Drill team offered to females	BYA19RB	89.2
Administrator	Other sport offered to males	BYA19SA	89.8
Administrator	Other sport offered to females	BYA19SB	89.2
Administrator	No sports offered to males	BYA19TA	89.6
Administrator	No sports offered to females	BYA19TB	89.2
Student composites	Student's year and month of birth	DOBIRTHP	99.6
Student composites	Occupation at age 30—coded	BYOCC30	89.0
Student composites	Interscholastic baseball participation	BYBASEBL	92.2
Student composites	Interscholastic softball participation	BYSOFTBL	92.1
Student composites	Interscholastic basketball participation	BYBSKTBL	92.1
Student composites	Interscholastic football participation	BYFOOTBL	92.4
Student composites	Interscholastic soccer participation	BYSOCCER	91.4
Student composites	Other interscholastic team participation	BYTEAMSP	91.6
Student composites	Interscholastic individual sport participation	BYSOLOSP	91.8
Student composites	Interscholastic cheerleading/drill team participation	BYCHRDRL	92.1

See notes at end of table.

Table A-3. Weighted response rates for unimputed variables used in this report: 2002—Continued

Source	Continu	ued		
Source         Variable label         Variable         percent*           Student composites         Student beld job for pay during 2001–02 school year         BYWORKSY         84.3°           Student         Students get along well with teacher         BYS20A         95.5           Student         There is real school spirit         BYS20B         95.5           Student         The teaching is good         BYS20E         94.6           Student         The teaching is good         BYS20F         93.9           Student         Teachers praise effort         BYS20G         94.8           Student         Teachers praise effort         BYS20G         94.8           Student         Does not feel safe at this school         BYS20M         94.6           Student         There are gangs in school         BYS20M         94.1           Student         Roscolaries are fair         BYS20M         94.8           Student         Everyone knows what school rules are         BYS21B         94.5           Student         School rules are fair         BYS21B         94.5           Student         School rules are strictly enforced         BYS21AD         94.8           Student         School rules are strictly enforced         BYS21E         95.7				
Student composites         Student speak along well with teacher         BYWORKSY         84.3°           Student         Students get along well with teacher         BYS20A         95.5           Student         There is real school spirit         BYS20B         95.1           Student         The teaching is good         BYS20C         95.3           Student         The teaching is good         BYS20F         93.9           Student         Teachers are interested in students         BYS20F         93.9           Student         Teachers are interested in students         BYS20G         94.8           Student         Teachers are interested in students         BYS20G         94.8           Student         Does not feel safe at this school         BYS20J         94.6           Student         Does not feel safe at this school         BYS20M         94.1           Student         Ryspand         94.8         94.8           Student         Ryspand         94.8         94.8           Student         School rules are fair         BYS20M         94.1           Student         School rules are strictly enforced         BYS21A         95.5           Student         Students sknow punishment for broken rules         BYS21E         94.8	Source	Variable label	Variable	
Student         Students         Students         BY\$20A         95.5           Student         There is real school spirit         BY\$20B         95.1           Student         Students friendly with other racial groups         BY\$20C         95.3           Student         The teaching is good         BY\$20C         94.8           Student         Teachers are interested in students         BY\$20G         94.8           Student         Teachers praise effort         BY\$20G         94.8           Student         Des not feel safe at this school         BY\$20M         94.1           Student         There are gangs in school         BY\$20M         94.1           Student         There are gangs in school         BY\$20M         94.1           Student         Everyone knows what school rules are         BY\$20N         94.8           Student         Everyone knows what school rules are         BY\$21B         94.5           Student         School rules are fair         BY\$21B         94.8           Student         School rules are strictly enforced         BY\$21AD         94.8           Student         School rules are strictly enforced         BY\$21AD         94.8           Student         School rules are strictly enforced         BY\$21E <td>Student composites</td> <td>Student held job for pay during 2001–02 school year</td> <td>BYWORKSY</td> <td>84.3<sup>2</sup></td>	Student composites	Student held job for pay during 2001–02 school year	BYWORKSY	84.3 <sup>2</sup>
Student         There is réal school spirit         BY\$20B         95.1           Student         Students friendly with other racial groups         BY\$20C         95.3           Student         The teaching is good         BY\$20F         94.8           Student         Teachers are interested in students         BY\$20F         93.9           Student         Teachers are interested in students         BY\$20F         93.9           Student         Teachers are interested in students         BY\$20D         94.6           Student         Does not feel safe at this school         BY\$20D         94.6           Student         Does not feel safe at this school         BY\$20M         94.8           Student         Ryscallething sin school         BY\$20M         94.8           Student         Ryscallething school rules are fair         BY\$21A         95.5           Student         School rules are strictly enforced         BY\$21A         95.5           Student         School rules are strictly enforced         BY\$21B         94.8           Student         Student school rules are strictly enforced         BY\$21E         95.2           Student         Student school rules are strictly enforced         BY\$21E         95.2           Student         Student school	-			
Student         Students friendly with other racial groups         BYS20C         95.3           Student         The teaching is good         BYS20F         93.9           Student         Teachers are interested in students         BYS20G         94.6           Student         Teachers praise effort         BYS20G         94.6           Student         Does not feel safe at this school         BYS20M         94.1           Student         There are gangs in school         BYS20M         94.1           Student         Reveryone knows what school rules are         BYS21A         95.5           Student         School rules are fair         BYS21B         94.5           Student         School rules are fair         BYS21B         94.5           Student         School rules are strictly enforced         BYS21B         94.5           Student         School rules are strictly enforced         BYS21AD         94.8           Student         School rules are strictly enforced         BYS21B         94.5           Student         School rules are strictly enforced         BYS21AD         94.8           Student         School rules are strictly enforced         BYS21B         95.7           Student         School strictly enforced         BYS21B				
Student         The teaching is good         BYS2DE         94.6           Student         Teachers are interested in students         BYS2DF         93.9           Student         Teachers praise effort         BYS20J         94.6           Student         Does not feel safe at this school         BYS20J         94.6           Student         There are gangs in school         BYS20N         94.1           Student         Racial/ethnic groups often fight         BYS20N         94.8           Student         School rules are fair         BYS21B         94.5           Student         School rules are fair         BYS21B         94.5           Student         School rules are strictly enforced         BYS21AD         94.8           Student         School rules are strictly enforced         BYS21C         94.8           Student         Students know punishment for broken rules         BYS21E         95.2           Student         Someone offered drugs at school         BYS22A         95.7           Student         Someone threatened to hurt 10th-grader at school         BYS22C         95.5           Student         Someone brit 10th-grader         BYS22E         95.0           Student         Someone hit 20th-grader         BYS22E <th< td=""><td></td><td></td><td></td><td></td></th<>				
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Student Played other intramural team sport BYS39F 92.1	Student	Played intramural football	BYS39D	93.0
		Played intramural soccer	BYS39E	
			BYS39F	92.1

See notes at end of table.

Table A-3. Weighted response rates for unimputed variables used in this report: 2002— Continued

			Response
			rate,
Source	Variable label	Variable	percent <sup>1</sup>
Student	Played an individual intramural sport	BYS39G	92.4
Student	On intramural cheerleading/drill team	BYS39H	92.3
Student	Participated in school band or chorus	BYS41A	97.8
Student	Participated in school play or musical	BYS41B	97.7
Student	Participated in student government	BYS41C	97.3
Student	Participated in academic honor society	BYS41D	97.6
Student	Participated in school yearbook or newspaper	BYS41E	97.6
Student	Participated in school service clubs	BYS41F	97.4
Student	Participated in school academic clubs	BYS41G	97.3
Student	Participated in school hobby clubs	BYS41H	97.3
Student	Participated in school vocational clubs	BYS41I	97.1
Student	Hours/week spent in extracurricular activities	BYS42	94.3
Student	Hours/week spent reading outside of school	BYS43	95.3
Student	How often uses computer for fun	BYS45A	93.6
Student	How often uses computer for schoolwork	BYS45B	93.5
Student	How often uses computer other than for school	BYS45C	93.4
Student	Hours/day on computer for school work	BYS46A	91.7
Student	Hours/day on computer other than for school	BYS46B	91.9
Student	How often uses computer at home	BYS47A	93.5
Student	How often uses computer at school	BYS47B	93.0
Student	How often uses computer at public library	BYS47C	92.9
Student	How often uses computer at friend's house	BYS47D	93.5
Student	Importance of being successful in line of work	BYS54A	96.1
	Importance of marrying right person/having happy		
Student	family	BYS54B	96.0
Student	Importance of having lots of money	BYS54C	95.8
Student	Importance of having strong friendships	BYS54D	95.7
Student	Importance of being able to find steady work	BYS54E	95.1
Student	Importance of helping others in community	BYS54F	95.7
Student	Importance of giving children better opportunities	BYS54G	95.5
Student	Importance of living close to parents/relatives	BYS54H	95.5
Student	Importance of getting away from this area	BYS54I	95.4
Student	Importance of working to correct inequalities	BYS54J	95.3
Student	Importance of having children	BYS54K	95.3
Student	Importance of having leisure time	BYS54L	95.3
Student	Importance of being expert in field of work	BYS54N	95.5
Student	Importance of getting good education	BYS54O	95.5
Student	How far in school student thinks will get	BYS56	97.5
Student	Plans to continue education after high school	BYS57	97.8
Student	Mother's desire for 10th-grader after high school	BYS66A	86.9
Student	Father's desire for 10th-grader after high school	BYS66B	86.3
	School counselor's desire for 10th-grader after high		
Student	school	BYS66E	86.2
	Favorite teacher's desire for 10th-grader after high		
Student	school	BYS66F	86.7
Student	How many hours usually works a week	BYS75	81.7 <sup>2</sup>

<sup>1</sup>Weighted item response rates, using the base-year student final weight (BYSTUWT).
<sup>2</sup>Below 85 percent.
SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002).

Table A-4. ELS:2002 imputation variables: 2002

Variable	Weighted percent missing
Student sex	0.05
Student race/ethnicity	0.02
Student language minority status	2.07
Student Hispanic subgroup	2.93
Student Asian subgroup	7.26
School program type	6.64
Student postsecondary educational expectations	2.36
Parental aspirations for student postsecondary achievement	14.53
Family composition	12.55
Mother's educational attainment <sup>1</sup>	3.88
Mother's occupation <sup>1</sup>	5.58
Father's educational attainment <sup>1</sup>	10.28
Father's occupation <sup>1</sup>	15.03
Family income <sup>1</sup>	22.40
Student ability estimates (theta) for reading <sup>2</sup>	6.26
Student ability estimates (theta) for mathematics <sup>2</sup>	5.33

<sup>&</sup>lt;sup>1</sup>Used to construct socioeconomic status (SES).

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002).

### A.3.5 Quality of Estimates: The Special Case of Television Viewing and Video Games

Results obtained from analysis of data from the ELS:2002 base year generally conformed to expectations based on external sources and on theoretically established relationships between variables. However, a possible exception that is notable may be seen in the estimates for time spent watching television, videotapes, or DVDs and playing video games. While the general pattern of relationships conforms to past findings, the total number of hours registered was higher than expected. For this reason, estimates of television viewing and time spent in video or computer games were not included in this report. The paragraphs below provide more information about this data quality issue.

Students were asked to report the number of hours per day during the school year that they usually spent watching television, videotapes, or DVDs (question 48) and playing video or computer games (question 49). Students were to write in a numerical value in hours per day within a constrained field, corresponding to the total number of hours watched (or played) per day on weekdays and, separately, on weekends.

Even after topcoding to eliminate implausibly extreme values, high-end estimates (proportion of the population engaged in television viewing over 5 or 6 hours per day) remained substantially higher than estimates from alternative sources, such as NELS:88 or NAEP. There are a number of possible explanations for this discrepancy. The two most important explanations are (1) a lack of full comparability between sources and (2) the possibility that the ELS:2002 item was prone to misinterpretation by respondents who did not read it carefully.

Comparison with the NAEP television item (Campbell, Hombo, and Mazzeo 2000) is compromised by a number of factors. Over time there is fluctuation in estimates for the NAEP

<sup>&</sup>lt;sup>2</sup>Used to construct normative (quartile) and proficiency scores.

trend sample, which in any case is based on 13- and 17-year-olds (most ELS:2002 sophomores are 15 or 16 years of age). Moreover, the ELS:2002 item is broader, including additional viewing (specifically videotapes and DVDs) beyond television. The ELS:2002 item is open ended and elicits an answer that is continuous in form. In contrast, the NAEP item is categorical, with a tight cap on the highest response.

Comparison with NELS:88 (Rasinski et al. 1993) is also compromised by key differences, including a 12-year time gap and the fact that NELS:88 asked the item in categorical form. ELS:2002 is continuous. Estimates collected in an open-ended continuous format may differ from estimates collected in a constrained categorical format. The open-ended format may be more cognitively taxing, while the categorical format may influence response by implicitly defining the "comfortable" middle ranges as well as both extremes for respondents (Tourangeau, Rips, and Rasinski 2000). (For example, in NELS:88, respondents were asked to choose from response categories such as "less than 1 hour/day, 1–2 hours, 2–3 hours, 3–4 hours, and over 5 hours a day.") Categorical and open-ended formats are unlikely to produce the same result, since the open-ended format is of course tolerant of extreme high values and therefore prone to produce a higher estimate.

Sudman, Bradburn, and Schwarz (1996, p. 225) extol the open-ended format as superior to the bias-prone categorical format. They note: "Respondents use the range of numeric response alternatives as a frame of reference in estimating their own behavioral frequency, resulting in a systematic bias. To avoid such a bias, we recommend that researchers use open-question formats in assessing reports of behavioral frequencies." While the same risk of bias portends in a categorical scheme whether one is counting behaviors or estimating hours engaged in a specific activity (Sudman, Bradburn, and Schwarz 1996, p. 219), the inherent difficulty of hour estimation may in this context also pose a difficulty for open formats.

Apart from the caveats that must be entered about the comparability of the ELS:2002 item, it is also important to consider that the ELS:2002 format may have been open to misinterpretation by some respondents. (This observation is speculative; it is not based on cognitive interviews with 10th-graders or re-interviews of ELS:2002 respondents.) In particular, although the question stems say, "how many hours a day," splitting the response boxes into weekdays and weekends may have abetted some respondents in the error of reporting total weekday and total weekend hours. If some students forgot the definition in the question stem ("how many hours per day") and misinterpreted "weekdays" as the total number of hours on weekdays in a week, an inflated estimate for high-end use would be the likely consequence. A parallel error could be made for the "on weekends" portion of the question. Estimates from television-viewing items in the past have been quite sensitive to small format differences (see Rasinski et al. 1993, appendix B, pp. 15–18). While reliable comparison sources are not available for the video game item, one may presume that because it was identical in format to the television-viewing item, it would be open to a like degree of respondent error, and that that error would be in the same direction (i.e., somewhat inflated high-end estimates).

#### A.3.6 Survey Standard Errors

Because the ELS:2002 sample design involved stratification, the disproportionate sampling of certain strata, and clustered (i.e., multistage) probability sampling, the resulting

statistics are more variable than they would have been if they had been based on data from a simple random sample of the same size.

The calculation of exact standard errors for survey estimates can be difficult. Several procedures are available for calculating precise estimates of sampling errors for complex samples. Procedures such as Taylor Series approximations, Balanced Repeated Replication (BRR), and Jackknife Repeated Replication (JRR), which can be found in advanced statistical programs such as SUDAAN, AM, or WESVAR, produce similar results. The ELS:2002 analyses included in this report used SUDAAN and the Taylor Series procedure to calculate standard errors.

#### A.3.7 Electronic Codebooks

An electronic codebook (ECB)<sup>6</sup> for the ELS:2002 base-year data (NCES 2004–404) is available from NCES. The ECB system is primarily an electronic version of a fully documented survey codebook. It allows the data user to browse through all interview or instrument items (variables) contained in the ELS:2002 data files, to search variable and value labels for key words related to particular research questions, to review the actual wording of these items along with notes and other pertinent information related to them, to examine the definitions and programs used to develop derived variables, and importantly, to output the data for statistical analysis. The ECB also provides an electronic display of the distribution of counts and percentages for each variable in the dataset.

Analysts can use the ECB to select or "tag" variables of interest, print hardcopy codebooks that display the distributions of the tagged variables, and generate SAS and SPSS program syntax (including variable and value labels) that can be utilized with the analyst's own statistical software.

Further details of the instrumentation, sample design, data collection results, data processing, and data files available for analysis may be found in the *Education Longitudinal Study of 2002: Base Year Data File User's Manual* (Ingels et al. 2004).<sup>7</sup>

#### A.4 Statistical Procedures

#### A.4.1 Statistical Significance: Student t Statistics

Comparisons that have been drawn in the text of this report have been tested for statistical significance (set at a probability of 0.05) to ensure that the differences are larger than those that might be expected due to sampling variation. The statistical comparisons in this report were based largely on the t statistic. Whether the statistical test is considered significant is determined by calculating a t value for the difference between a pair of means or proportions and comparing this value to published tables of values, called critical values (cv). The alpha level is an a priori statement of the probability that a difference exists in fact rather than by chance.

<sup>&</sup>lt;sup>6</sup> Information on obtaining electronic codebooks for ELS:2002 and other NCES data collection efforts can be found by reviewing the data products for the study at <a href="http://nces.ed.gov/pubsearch">http://nces.ed.gov/pubsearch</a>.

<sup>&</sup>lt;sup>7</sup> See appendix reference list (section A.6) for full citation. The manual can be downloaded from the NCES website: http://nces.ed.gov/pubsearch.

The *t* statistic between estimates from various subgroups presented in the tables can be computed by using the following formula:

$$t = \frac{x_1 - x_2}{\sqrt{\left(SE_1^2 + SE_2^2\right)}},$$

where  $x_1$  and  $x_2$  are the estimates to be compared (e.g., the means of sample members in two groups), and  $SE_1$  and  $SE_2$  are their corresponding standard errors. This formula is valid only for independent estimates. The analysis of one table (table 16 in chapter 4) involved comparison in which the estimates were not independent. Specifically, a total percentage (all sophomore students) was compared with a subgroup included in the total (high-intensity extracurricular participants). When the estimates are not independent, a covariance term must be added to the denominator of the formula. An adjusted formula was therefore used in computing the t value for comparisons drawn from table 16.

#### A.4.2 Linear Trends

While most descriptive comparisons in this report were tested using the student's *t* statistic, some comparisons among categories of an ordered variable with three or more levels involved a test for a linear trend across all categories, rather than a series of tests between pairs of categories. In this report, when differences among percentages were examined relative to a variable with ordered categories, analysis of variance (ANOVA) was used to test for a linear relationship between the two variables. To do this, ANOVA models included orthogonal linear contrasts corresponding to successive levels of the independent variable. The squares of the Taylorized standard errors (i.e., standard errors that were calculated by the Taylor Series method), the variance between the means, and the unweighted sample sizes were used to partition total sum of squares into within- and between-group sums of squares. These were used to create mean squares for the within- and between-group variance components and their corresponding F statistics, which were then compared with published values of *F* for a significance level of .05. Significant values of both the overall F and the F associated with the linear contrast term were required as evidence of a linear relationship between the two variables.

#### A.4.3 Quantified Disparities: Assertions of Magnitude of Difference

In some cases, comparisons are made asserting the magnitude or degree of difference between two estimates. Such comparisons take the following form: some quality is X times (2, 3, 4, etc.) more prevalent in group A than in group B. For example: "At reading level 3 (complex inference), twice as many 10th-graders from intact mother-father families were proficient (11 percent for 10th-graders from intact mother-father families, compared to 5 percent for 10th-graders living in a single-parent household)." In these instances, a difference between two estimates is asserted that is then tested using the *t* statistic. However, an additional test has been imposed to ensure the propriety of the further assertion about the magnitude or degree of difference (in the example, "twice as many"). Here a confidence interval is generated, into

<sup>&</sup>lt;sup>8</sup> More information about ANOVA and significance testing using the *F* statistic can be found in any standard textbook on statistical methods in the social and behavioral sciences.

which the assertion of degree of difference must fall (in the example of the two groups at level 3 reading above, the confidence interval is 2.462 - 1.783).

#### A.4.4 Substantive Significance: Magnitude of Effect Measures

For means (specifically, hours spent in various activities, scores from the ELS:2002 reading and mathematics assessments), an effect size (or standardized mean difference) has been calculated. The effect size stands as a measure, expressed in standard deviation units, of the substantive significance or practical effect of a difference. When differences in the means of two distributions are compared and an effect size derived, in some circumstances, one distribution may be considered dominant. (For example, in an experiment one might employ the standard deviation from the control group.) However, where population variances of two groups are highly similar, a pooled standard deviation is commonly preferred. For purposes of comparisons drawn in this report, effect sizes were calculated as the change in mean test scores divided by their pooled standard deviation. A criterion of one-fifth (.20) of a standard deviation was set as the minimum effect size for substantive significance. In other words, differences were not reported in the text unless this effect size criterion was met. (To be reported, comparisons also had to meet a criterion of statistical significance, set at .05.) While .20 is seen as a minimum threshold for substantive significance, it also defines a small effect. An effect size of half a standard deviation (.50) or more is typically thought of as a medium effect. The threshold for large effects is generally thought to begin with an effect size of .80.9 While tables of effect sizes are not provided in the report, standard deviations are reported, should readers wish to calculate an effect size. Since some readers may choose a pooled standard deviation approach, sample sizes are also reported.

For proportions, this report has adopted a simple convention of reporting differences only if they are 5 percentage points or more.

In some cases involving standard comparisons reported in the research literature, findings reflect an extremely small difference that is neither statistically nor substantively significant on the basis of the criteria sketched above. Such instances are noted with the phrase "no measurable differences were found" or "no difference was detected."

#### A.5 Glossary—Description of Variables Used

Each variable used in analyses for this report is described below. Variables are alphabetized within topic. The topics are student demographic characteristics; family characteristics; school characteristics; school experiences and behavior; opinions about school and teachers; extracurricular activities, sports, and work; time use; test scores; and expectations for the future. Some readers may wish to consult the original questionnaires to obtain specific item wording and information about the context in which particular questions were posed. Webpublished PDF files containing the base-year questionnaires are available at

<sup>&</sup>lt;sup>9</sup> For more information about these cutoffs and effect sizes more generally, see Cohen (1988), Seastrom (2003, Guideline 5-1-4F), and Murphy and Myers (2004). While there are recognized strength-of-effect conventions for small, medium, and large effect sizes, magnitude of effect is also to a degree relative to context. Size boundaries may vary somewhat according to the literature and findings associated with the specific research inquiry at hand (see, for example, Wainer and Robinson [2003]).

http://www.nces.ed.gov/surveys/els2002/index.asp. Some readers may desire to have further information about the construction of composite variables (such as SES). The code used to construct these variables can be found in the ECB (NCES 2004-404). For users who would like to consult codebooks of hardcopy frequencies (including both percent and weighted percent) for the variables listed in this glossary, codebooks are also available on the web as appendix G to the data file user's manual (Ingels et al. 2004, NCES 2004-405) (http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2004405).

When the variable is available in the ELS:2002 base-year data file, the variable name appears in parentheses after the bold entry name. ELS:2002 variables used to construct a variable that is not provided in the ELS:2002 base-year data file are named in all capital letters within the descriptive text.

#### STUDENT DEMOGRAPHIC CHARACTERISTICS

NATIVE LANGUAGE/LANGUAGE MINORITY STATUS (STLANG): The data for STLANG are taken directly from the student questionnaire (BYS67) when available. Otherwise, they are imputed.

[Appears in figure 3, table 4, table 5, table 6, table 8, table 9, table 11, table 14, table 17, table 18, table 19a, table 19b, table 20, table 21, table 22, table 31, table 32, table 33, table 34, table 36]

RACE/ETHNICITY (RACE): The race/ethnicity variable for this report is based on RACE with one simplification: "Hispanic/Latino, race specified" and "Hispanic/Latino, no race specified" are combined into one category, "Hispanic or Latino." The resulting categories are (1) American Indian or Alaska Native; (2) Asian or Pacific Islander, including Native Hawaiian; (3) Black, including African American; (4) Hispanic or Latino; (5) More than one race or Multiracial; and (6) White. All race categories exclude individuals of Hispanic ethnicity.

RACE reflects new federal standards for collecting race and ethnicity data that allow respondents to mark more than one choice for race. RACE was obtained from the student questionnaire (BYS15, BYS17A, BYS17B, BYS17C, BYS17D, and BYS17E) when available or from (in order of preference) the sampling roster, the parent questionnaire if the parent respondent was a biological parent, or logical imputation based on other questionnaire items (e.g., surname, native language).

[Appears in figure 2, figure 3, figure 7, figure 8, figure 10, figure 13, table 4, figure 18, table 5, table 6, table 8, figure 24, table 9, table 11, table 14, table 17, table 18, table 19a, table 19b, table 20, table 21, table 22, figure 27, table 25, table 26, figure 28, table 27, figure 29, table 28, figure 30, table 29, figure 31, table 30, figure 32, table 31, table 32, table 33, table 34, figure 34, table 35, table 36, figure 35]

SEX (SEX): This variable was constructed from BYS14 on the base-year student questionnaire or, where missing, from (in order of preference) the school roster, logical imputation based on first name, or statistical imputation.

[Appears in table 4, table 5, figure 20, table 6, table 8, table 9, table 11, table 12, table 13, table 14, table 17, table 18, table 19a, table 19b, table 20, table 21, table 22, table 29, figure 31, table 30, figure 32, table 31, table 32, table 33, table 34, figure 34, table 35, table 36, table 39, figure 35]

YEAR OF BIRTH: Year of birth was "stripped" from DOBIRTHP, month and year of birth. In the construction of DOBIRTHP, the years 1980, 1981, and 1982 were set to 1983. The years 1988 and 1989 were set to 1987. Dates before 1980 or after 1989 were set to missing. See table A-2 for weighted response rates.

[Appears in figure 1]

#### **FAMILY CHARACTERISTICS**

FAMILY COMPOSITION/CONFIGURATION (BYFCOMP): BYFCOMP is based on parent questionnaire data or, where data were missing, was imputed. BYFCOMP reflects the relationship of the parent questionnaire respondent and his/her spouse/partner to the 10th-grader (BYP01 and BYP04) with one exception; if the parent questionnaire respondent indicated that the 10th-grader lived with him/her less than half time (BYP05) and the 10th-grader did not attend a boarding school (BYA03O), the family was classified as "Lives with student less than half time." Apart from these cases, families were classified into one of eight family types: (1) Mother and father; (2) Mother and male guardian; (3) Father and female guardian; (4) Two guardians; (5) Mother only; (6) Father only; (7) Female guardian only; and (8) Male guardian only. For this report, some of BYFCOMP's categories were combined to form four: Mother and father (1), Mother or father and guardian (2 and 3), Single parent (5 and 6), and Other (4, 7, 8, and "Lives with student less than half time"). Note that "Mother" or "Father" could be either the biological or adoptive mother or father of the ELS:2002 10th-grader. "Guardian" unspecified, as with "Mother and guardian," "Father and guardian," or "Two guardians," could be either a male or female. Approximately 1 percent of the students are in families with a parent and a guardian or two guardians of the same sex.

[Appears in figure 4, table 21, table 22]

FATHER'S EDUCATION (FATHED): Father's highest level of education completed is taken from the parent questionnaire (BYP34A or BYP34B, depending on the sex of the respondent) or, where missing, from (in order of preference) the student questionnaire (BYS83B) or imputation. Eight distinct levels of education are identified: (1) Did not finish high school; (2) Graduated from high school or GED; (3) Attended 2-year school, no degree; (4) Graduated from 2-year school; (5) Attended college, no 4-year degree; (6) Graduated from college; (7) Completed master's degree or equivalent; and (8) Completed Ph.D., M.D., or other advanced degree. In figure 6, "Some college" includes the third, fourth, and fifth categories; "Graduate/professional" combines the seventh and eighth categories. Note that for about 1 percent of cases, a respondent classified under mother's education could be a male spouse/partner of a 10th-grader's biological or adoptive father and vice versa, that is, a

respondent classified under father's education could be a female spouse/partner of a 10th-grader's biological or adoptive mother.

[Appears in figure 6]

MOTHER'S EDUCATION (MOTHED): Mother's highest level of education completed is taken from the parent questionnaire (BYP34A or BYP34B, depending on the sex of the respondent) or, where missing, from (in order of preference) the student questionnaire (BYS83A) or imputation. Eight distinct levels of education are identified: (1) Did not finish high school; (2) Graduated from high school or GED; (3) Attended 2-year school, no degree; (4) Graduated from 2-year school; (5) Attended college, no 4-year degree; (6) Graduated from college; (7) Completed master's degree or equivalent; and (8) Completed Ph.D., M.D., or other advanced degree. In figure 5, "Some college" includes the third, fourth, and fifth categories; "Graduate/professional" combines the seventh and eighth categories. (Also, see note on father's education, above.)

[Appears in figure 5]

PARENTS' EDUCATION (PARED): PARED is equivalent to either MOTHED or FATHED, whichever is the highest level of education. Mother's/father's highest level of education completed is taken from the parent questionnaire (BYP34A or BYP34B, depending on the sex of the respondent) or, where missing, from (in order of preference) the student questionnaire (BYS83A and BYS83B) or imputation. Eight distinct levels of education are identified: (1) Did not finish high school; (2) Graduated from high school or GED; (3) Attended 2-year school, no degree; (4) Graduated from 2-year school; (5) Attended college, no 4-year degree; (6) Graduated from college; (7) Completed master's degree or equivalent; and (8) Completed Ph.D., M.D., or other advanced degree. For this report, the eight levels of PARED were collapsed into four: High school or less (1 and 2), Some college (3, 4, 5), College graduation (6), and Graduate/professional degree (7 and 8).

[Appears in figure 7, table 4, table 5, table 6, table 8, table 9, table 11, table 14, table 17, table 18, table 19a, table 19b, table 20, table 21, table 22, table 31, table 32, table 33, table 34, table 36]

SOCIOECONOMIC STATUS (SES1QU): The socioeconomic status (SES) variable used in this report combines the middle two categories of the SES1QU variable, which divides SES1 into quartiles based on the weighted marginal distribution. Three categories result: (1) lowest quartile of SES1 (i.e., students below the 25th percentile rank for SES); (2) middle two quartiles of SES1 (i.e., students whose SES percentile rank was at least 25th and below 75th); and (3) highest quartile of SES1 (i.e., students whose SES percentile rank was at least 75th).

SES1 is a NLS-72/HS&B/NELS:88-comparable composite variable constructed from parent questionnaire data when available, and from imputation or student substitutions when not. SES is based on five equally weighted, standardized components: father's/guardian's education (FATHED), mother's/guardian's education (MOTHED), family income (INCOME),

father's/guardian's occupational prestige score (from OCCUFATH), and mother's/guardian's occupational prestige score (from OCCUMOTH).

For a description of how FATHED and MOTHED were constructed, see above. Income was based on parent questionnaire information (primarily BYP85) or imputed otherwise. The parent questionnaire was the preferred source of data for OCCUFATH and OCCUMOTH. Parent questionnaire respondents were asked to describe the father's and mother's occupations and subsequently code each into one of 17 categories (BYP39C and BYP43C). If the respondent provided only text, project staff coded the occupation. In the absence of parent questionnaire occupation data, student-supplied parent occupation text (BYS81A, BYS81B, BYS82A, and BYS82B) was coded by project staff if possible. Missing occupations were imputed. An occupation prestige value was determined for OCCUMOTH and OCCUFATH based on the 1961 Duncan SEI index.

[Appears in figure 8, figure 11, figure 14, table 4, table 5, table 6, table 8, table 9, table 11, table 14, table 15 (highest SES quartile), table 16 (highest SES quartile), table 17, table 18, table 19a, table 19b, table 20, table 21, table 22, figure 27, table 25, table 26, figure 28, table 31, table 32, table 34, table 35, table 36]

#### SCHOOL CHARACTERISTICS

REGION (BYREGION): Geographic region in which the school is located: Northeast (CT, ME, MA, NH, NJ, NY, PA, RI, and VT); Midwest (IL, IN, IA, KS, MI, MN, MO, ND, NE, OH, SD, and WI); South (AL, AR, DC, DE, FL, GA, KY, LA, MD, MS, NC, OK, SC, TN, TX, VA, and WV); and West (AK, AZ, CA, CO, HI, ID, MT, NV, NM, OR, UT, WA, and WY). This is taken directly from ELS:2002 sampling data.

[Appears in table 1, table 4, figure 19, table 5, table 6, table 7, table 8, table 9, table 11, table 14, table 17, table 18, table 19a, table 19b, table 20, table 21, table 22, table 31, table 32, table 33, table 34, table 36]

SCHOOLS OFFERING VARIOUS SPORTS TO MALE AND FEMALE STUDENTS (BYA19AA–BYA19TA and BYA19AB–BYA19TB): These variables, taken directly from the school administrator questionnaire, indicate which sports (if any) the school offers to male students and female students. See table A-2 for weighted response rates.

[Appears in table 12 (school-level file), table 13 (student-level file)]

SECTOR/TYPE (BYSCTRL): Type of school: Public, Catholic, or Other Private. This is taken directly from ELS:2002 sampling data.

[Appears in figure 9, figure 10, figure 11, figure 17, table 4, figure 19, table 5, table 6, figure 21, table 7, table 8, table 9, table 11, table 12, table 13, table 14, table 17, table 18, table 19a, table 19b, table 20, table 21, table 22, table 31, table 32, table 33, table 34, table 36]

URBANICITY/LOCATION (BYURBAN): Metropolitan status of the school: Urban, Suburban, or Rural. This is taken directly from ELS:2002 sampling frame data, that is, from the Common Core of Data (CCD) 1999–2000 and the Private School Survey (PSS) 1999–2000.

CCD contains an 8-level locale variable. For this report, the 8-level CCD variable was collapsed into 3 levels as follows: Urban—large or mid-size central city (CCD 1 and 2); Suburban—large or small town or urban fringe of a large or mid-size city (CCD 3, 4, 5, 6); and Rural—school is in a rural area (CCD 7 and 8).

[Appears in figure 12, figure 13, figure 14, table 4, figure 19, table 5, table 6, table 7, table 8, table 9, table 11, table 14, table 17, table 18, table 19a, table 19b, table 20, table 21, table 22, table 31, table 32, table 33, table 34, table 36]

#### **SCHOOL EXPERIENCES AND BEHAVIOR**

CUTTING/SKIPPING CLASS (BYS24B): This variable, taken directly from the student questionnaire, indicates how many times the student cut or skipped class in the first semester or term of the school year: Never, 1–2 times, 3–6 times, 7–9 times, or 10 or more times. Students who selected "Never cut class" were a subgroup of interest in some analyses. See table A-2 for the weighted response rate.

[Appears in table 15, table 16, table 23, table 24]

EVER COME TO CLASS WITHOUT BOOKS (BYS38B)/HOMEWORK DONE (BYS38C): These variables, taken directly from the student questionnaire, indicate how often the student comes to class without books/homework done: Never, Seldom, Often, or Usually. "Never" and "Seldom" were combined into one category for the purpose of this report. See table A-2 for weighted response rates.

[Appears in table 23, table 24]

HIGH SCHOOL PROGRAM (SCHPROG): Student's self-report of his/her high school program: General, College Preparatory (academic), or Vocational (including technical or business). This variable is taken directly from the student questionnaire (BYS26) when available and imputed otherwise.

[Appears in table 3, table 4, table 5, table 6, table 8, table 9, table 11, table 14, table 17, table 18, table 19a, table 19b, table 20, table 21, table 22, table 31, table 32, table 33, table 34, table 36]

SCHOOL CRIME AND BULLYING (BYS22A, BYS22B, BYS22C, BYS22D, BYS22E, BYS22F, BYS22G, BYS22H): These variables, taken directly from the student questionnaire, indicate how often the student experienced various kinds of negative behaviors such as crime, violence, or bullying during the first semester or term of the school year: Never, Once or twice, or More than twice. Students who selected "Once or twice" or "More than twice" for a particular item were classified as having experienced that form of negative behavior. A student is considered to have experienced any crime or bullying if he/she reported experiencing at least one of these forms of behavior. See table A-2 for weighted response rates.

[Appears in figure 20, table 6]

#### **OPINIONS ABOUT SCHOOL AND TEACHERS**

IMPORTANCE PLACED ON GOOD GRADES (BYS37): This variable is taken directly from the student questionnaire. Students were asked how important good grades are to them: Not important, Somewhat important, Important, or Very important. Students who rated good grades as very important are a subgroup of interest in some analyses. See table A-2 for the weighted response rate.

[Appears in table 8, table 15, table 16, table 23, table 24]

LIKE SCHOOL A GREAT DEAL (BYS28): This variable is taken directly from the student questionnaire. Students were asked how much they like school: Not at all, Somewhat, or A great deal. See table A-2 for the weighted response rate.

[Appears in table 4, figure 18, table 15, table 16]

REASONS FOR GOING TO SCHOOL (BYS27A, BYS27B, BYS27C, BYS27D, BYS27E, BYS27F, BYS27G, BYS27H, BYS27I): These variables are taken directly from the student questionnaire. The question stem reads: "How much do you agree or disagree with the following statements about why you go to school?" The response options were as follows: Strongly agree, Agree, Disagree, or Strongly disagree. See table A-2 for weighted response rates.

[Appears in figure 23, figure 24, table 9]

SCHOOL RULES (BYS21A, BYS21B, BYS21C, BYS21D, BYS21E): These variables are taken directly from the student questionnaire. Students were asked how much they agreed or disagreed with various statements about school rules in their school over the last year: Strongly agree, Agree, Disagree, or Strongly disagree. See table A-2 for weighted response rates.

[Appears in figure 21, table 7, figure 22]

SCHOOL SAFETY (BYS20J, BYS20M, BYS20N): These variables are taken directly from the student questionnaire. Students were asked how much they agreed or disagreed with various statements about school safety including feelings of safety at school: Strongly agree, Agree, Disagree, or Strongly disagree. See table A-2 for weighted response rates.

[Appears in figure 19, table 5, figure 22 (BYS20J only)]

SCHOOL AND TEACHERS (BYS20A, BYS20B, BYS20C, BYS20E, BYS20F, BYS20G): These variables are taken directly from the student questionnaire. Students were asked how much they agreed or disagreed with various statements about their school and teachers: Strongly agree, Agree, Disagree, or Strongly disagree. See table A-2 for weighted response rates.

[Appears in figure 17, table 4]

#### EXTRACURRICULAR ACTIVITIES, SPORTS, AND WORK

#### **EXTRACURRICULAR ACTIVITIES**

CHEERLEADING: Students are defined as cheerleading participants if they indicated that they participated in cheerleading, pompom, or drill team at the intramural (BYS39H) or interscholastic (BYCHRDRL) level.

[Appears in table 11]

#### **EXTRACURRICULAR ACTIVITY PARTICIPATION:**

Extracurricular activity participants indicated that they participated in at least one extracurricular activity (BYS41A–BYS41I), including intramural and interscholastic cheerleading/drill team (BYS39H, BYCHRDRL).

[Appears in table 15]

High-intensity extracurricular participants are students whose number of hours spent on school-sponsored extracurricular activities per week (BYS42) fell in the highest quartile of that distribution (i.e., 9 or more hours per week).

[Appears in table 16]

Extracurricular activity nonparticipants are students who indicated that they did not participate in any extracurricular activities (BYS41A–BYS41I), including intramural and interscholastic cheerleading/drill team (BYS39H, BYCHRDRL), either because their school did not offer it or because they chose not to participate.

[Appears in table 15]

SCHOOL-SPONSORED ACTIVITIES (BYS41A, BYS41B, BYS41C, BYS41D, BYS41E, BYS41F, BYS41G, BYS41H, BYS41I): These variables, taken directly from the student questionnaire, indicate whether the student participated in various school-sponsored activities during the 2001–02 school year. See table A-2 for weighted response rates.

[Appears in table 10, table 11 (BYS41A, BYS41G, BYS41H, BYS41I only)]

**SPORTS** 

INTRAMURAL PARTICIPANTS: Intramural participants are responding 10th-graders who reported that they played at least one of the listed sports at the intramural level (BYS39A–BYS39G). Participation in intramural cheerleading (BYS39H) does not qualify a student as an intramural sport participant because cheerleading is considered an extracurricular activity for the purpose of this report. Intramural participants may also be classified as junior varsity participants, varsity participants, and varsity captains.

[Appears in table 14]

JUNIOR VARSITY PARTICIPANTS: Junior varsity participants are responding 10th-graders who reported that the junior varsity level was their highest level of interscholastic participation in at least one of the sports listed (BYBASEBL, BYSOFTBL, BYFOOTBL, BYSOCCER, BYTEAMSP, BYSOLOSP). They may also be classified as varsity participants or varsity captains if they participated at that level in a different sport. They may also be classified as intramural participants.

[Appears in table 14]

VARSITY PARTICIPANTS: These are 10th-graders who reported that the varsity level was their highest level of participation in at least one of the sports listed (BYBASEBL, BYSOFTBL, BYFOOTBL, BYSOCCER, BYTEAMSP, BYSOLOSP). These students may also have been varsity captains if they were captains in a different sport. They may also be classified as intramural participants.

[Appears in table 14]

VARSITY CAPTAINS: These are 10th-graders who reported that the varsity captain level was their highest level of participation in at least one of the sports listed (BYBASEBL, BYSOFTBL, BYSOCER, BYTEAMSP, BYSOLOSP). They may also be classified as intramural participants.

[Appears in table 14]

#### SPORTS PARTICIPATION:

Sports participants indicated that they participated in at least one sport at the intramural (BYS39A–BYS39G) or interscholastic level (BYBASEBL, BYSOFTBL, BYBSKTBL, BYFOOTBL, BYSOCCER, BYTEAMSP, BYSOLOSP). Cheerleading, pompon (pompom), and drill team participants were not included in this category.

[Appears in table 10, table 11, table 15]

Sports nonparticipants are students who indicated that they did not play any of the listed intramural (BYS39A–BYS39G) or interscholastic sports (BYBASEBL, BYBSKTBL, BYSOFTBL, BYFOOTBL, BYSOCCER, BYTEAMSP, BYSOLOSP) at any level, either because their school did not offer the sport or because they chose not to participate.

[Appears in table 14, table 15]

WORK

CURRENTLY EMPLOYED (BYS72): This variable is taken directly from the student questionnaire. Students were asked: "Have you ever worked for pay, not counting work around the house?" Three responses were provided: No; Yes, and I am currently employed; and Yes, but I am not currently employed. Students who reported that they were currently employed are the subgroup of interest in this report. See table A-2 for the weighted response rate.

[Appears in table 15, table 16]

#### TIME USE

COMPUTER USE

COMPUTER USE FOR SCHOOL WORK (BYS46A)/OTHER THAN FOR SCHOOL WORK (BYS46B): These variables are taken directly from the student questionnaire and topcoded at 6 hours or more. Students were asked how many hours a day they usually use a computer for (a) schoolwork, and (b) other than schoolwork. See table A-2 for weighted response rates.

[Appears in table 20]

COMPUTER USE FOR VARIOUS PURPOSES (BYS45A, BYS45B, BYS45C): These variables are taken directly from the student questionnaire. Students were asked how often they used a computer, whether at home, school, or some place else, for various purposes: Never, Rarely, Less than once a week, Once or twice a week, or Every day or almost every day. See table A-2 for weighted response rates.

[Appears in table 19a, table 19b]

#### **EXTRACURRICULAR ACTIVITIES**

EXTRACURRICULAR ACTIVITIES (BYS42): This variable is taken directly from the student questionnaire and topcoded at 21 hours or more. Students were asked: "In a typical week, how much time do you spend on <u>school-sponsored</u> extracurricular activities (for example, sports, school clubs)?" Students whose number of hours spent on school-sponsored extracurricular activities fell in the highest quartile of that distribution (i.e., 9 or more hours per week) are defined as high-intensity extracurricular participants. See table A-2 for the weighted response rate.

[Appears in table 17]

#### HOMEWORK

MATH HOMEWORK PER WEEK IN SCHOOL (BYS35A)/OUT OF SCHOOL (BYS35B): These variables are taken directly from the student questionnaire and topcoded at 21 hours or more. The question stem reads: "In your current math course, about how much time do

you spend on homework <u>each</u> week, both in and out of school?" See table A-2 for weighted response rates.

[Appears in table 18]

TOTAL MATH HOMEWORK PER WEEK: This variable is the sum of BYS35A (in school) and BYS35B (out of school). BYS35A and BYS35B are taken directly from the student questionnaire and topcoded at 21 hours or more.

[Appears in table 18, table 24]

ENGLISH HOMEWORK PER WEEK IN SCHOOL (BYS36A)/OUT OF SCHOOL (BYS36B): These variables are taken directly from the student questionnaire and topcoded at 21 hours or more. The question stem reads: "In your current English course, about how much time do you spend on homework <u>each</u> week, both in and out of school?" See table A-2 for weighted response rates.

[Appears in table 18]

TOTAL ENGLISH HOMEWORK PER WEEK: This variable is the sum of BYS36A (in school) and BYS36B (out of school). BYS36A and BYS36B are taken directly from the student questionnaire and topcoded at 21 hours or more.

[Appears in table 18, table 23]

HOMEWORK PER WEEK IN SCHOOL (BYS34A)/OUT OF SCHOOL (BYS34B): These variables are taken directly from the student questionnaire. BYS34A (in school) is topcoded at 21 hours or more; BYS34B (out of school) is topcoded at 26 hours or more. The question stem reads: "Overall, about how much time do you spend on homework <u>each</u> week, both in and out of school?" See table A-2 for weighted response rates.

[Appears in table 17 (BYS34B only), table 18]

TOTAL HOMEWORK PER WEEK: This variable is the sum of BYS34A (in school) and BYS34B (out of school). BYS34A and BYS34B are taken directly from the student questionnaire. BYS34A is topcoded at 21 hours or more. BYS34B is topcoded at 26 hours or more. See table A-2 for weighted response rates.

[Appears in table 18]

**OUTSIDE READING** 

OUTSIDE READING/ADDITIONAL READING NOT ASSIGNED BY SCHOOL PER WEEK (BYS43): This variable is taken directly from the student questionnaire and topcoded at 21 hours or more. See table A-2 for the weighted response rate.

[Appears in table 17, table 23]

#### WORK

WORKING FOR PAY (BYS75): This variable is taken directly from the student questionnaire and topcoded at 41 hours or more. All students who had ever worked for pay were instructed to report the number of hours they usually work/worked each week. This report's analysis of hours per week spent working for pay is restricted to students who had worked or were working during the 2001–02 school year (BYWORKSY). See table A-2 for weighted response rate.

[Appears in table 17]

#### **TEST SCORES**

TESTED ACHIEVEMENT (BYTXCQU): This is the standardized test composite score (reading and mathematics) quartile. The composite score is the average of the math (BYTXMSTD) and reading (BYTXRSTD) standardized scores, restandardized to a national mean of 50.0 and standard deviation of 10.0. Some students had scores for only the math test or reading test, but not both. For students who did not have both scores, the composite is based on the single score that was available. The standardized T score provides a norm-referenced measurement of achievement, that is, an estimate of achievement relative to the population (spring 2002 10th-graders) as a whole. It provides information on status compared to peers (as distinguished from the item response theory (IRT)-estimated number-right score, which represents status with respect to achievement on a particular criterion set of test items). The quartile score divides the weighted (population estimate) achievement distributions into four equal groups.

[Appears in table 4, table 5, table 6, table 8, table 9, table 11, table 14, table 15 (highest test quartile), table 16 (highest test quartile), table 17, table 18, table 19a, table 19b, table 20, table 31, table 32, table 33, table 34, table 36]

PROBABILITY OF PROFICIENCY SCORES IN READING AND MATHEMATICS (BYTX1RPP, BYTX2RPP, BYTX3RPP, BYTX3RPP, BYTX1MPP, BYTX2MPP, BYTX3MPP, BYTX4MPP, BYTX5MPP): Criterion-referenced proficiency probability scores are based on clusters of items that mark different levels on the reading and mathematics scales developed in NELS:88. Clusters of four items each were identified in the NELS:88 tests that marked three hierarchical levels in reading and five in mathematics. While clusters of four items anchor each proficiency level, the probability of proficiency is a continuous score that does not depend on a student answering the actual items in each of the clusters but, rather, on the probability of a correct answer on these items given the overall pattern of response on the items completed.

#### Reading Levels:

1. Simple reading comprehension, including reproduction of detail, and/or the author's main thought.

- 2. Simple inferences beyond the author's main thought and/or understanding and evaluating abstract concepts.
- 3. Complex inferences or evaluative judgments requiring multiple sources of information.

#### Mathematics Levels:

- 1. Simple arithmetical operations on whole numbers.
- 2. Simple operations with decimals, fractions, powers, and roots.
- 3. Simple problem solving, requiring the understanding of low-level mathematical concepts.
- 4. Understanding of intermediate-level mathematical concepts and/or multistep solutions to word problems.
- 5. Complex multistep word problems and/or advanced mathematics material.

The proficiency levels are hierarchical in the sense that mastery of a higher level typically implies proficiency at lower levels. The proficiency probabilities were computed using IRT-estimated item parameters calibrated in NELS:88. Each proficiency probability represents the likelihood that a student would pass a given proficiency level defined as above in the NELS:88 sample. It should be remembered that probability of proficiency scores are IRT-derived estimates based on overall performance rather than counts of actual item responses. Owing to the two-stage adaptive format of the ELS:2002 assessments, not all sophomores received all items. Nevertheless, the IRT model permits proficiency probabilities to be estimated, even for those sophomores who were not administered a particular proficiency cluster. Table A-5 shows variable names, descriptions, and summary statistics for the ELS:2002 proficiency probability scores.

Table A-5. Reading and mathematics probability of proficiency scores

Variable name	Description	Range	Weighted mean	Weighted standard deviation
BYTX1RPP	Reading – Level 1	0–1	0.89	0.26
BYTX2RPP	Reading – Level 2	0–1	0.46	0.40
BYTX3RPP	Reading – Level 3	0–1	0.08	0.21
BYTX1MPP	Math – Level 1	0–1	0.92	0.20
BYTX2MPP	Math – Level 2	0–1	0.67	0.42
BYTX3MPP	Math – Level 3	0–1	0.46	0.46
BYTX4MPP	Math – Level 4	0–1	0.21	0.33
BYTX5MPP	Math – Level 5	0–1	0.01	0.07

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002).

This report illustrates a cross-sectional use of the probability of proficiency scores: proficiency probabilities are averaged to produce estimates of mastery rates both overall and within population subgroups. (Note that dichotomous proficiency scores [as appeared on the NELS:88 dataset], indicating in yes/no fashion whether a given student is proficient at a particular level, have not been produced for the ELS:2002 data.) Since the range of the scores is zero to one, means can be expressed in percentage form. For example, the weighted mean for

mastery of math level 1 is 0.92, which is equivalent to saying that 92 percent of the sophomore cohort had achieved mastery at this level (simple arithmetical operations on whole numbers). While the continuous probability of proficiency scores can be used to measure status, they are perhaps most useful for measuring change. A sophomore trend report (currently in preparation) will illustrate the use of the proficiency probabilities in measuring intercohort change (essentially, since NELS:88 and ELS:2002 have been equated and are on the same scale, mean gain or loss across cohorts at any proficiency level can be measured by subtracting the NELS:88 score from the ELS:2002 score). With the addition of the ELS:2002 first follow-up data, the probability of proficiency scores can also be used longitudinally, to measure achievement gain. Since base year and first follow-up will be on the same vertical scale, mean gain (or loss) can be determined by subtracting the base-year probability score from the first follow-up probability score. Measuring gains in probability of proficiency at each mastery level permits researchers to investigate not only the amount of gain in total scale score points but also where (that is, what proficiency level) along the score scale different students are making their largest gains in achievement between sophomore and senior year. In turn, it is possible to relate gains in specific skills to specific school processes or curricular experiences.

READING PROFICIENCY LEVEL 1, LEVEL 2, AND LEVEL 3 (BYTX1RPP, BYTX2RPP, BYTX3RPP): Data from variables marking probability of proficiency at reading level 1, level 2, and level 3 appear in the figures and tables indicated below.

Reading Proficiency Level 1: simple reading comprehension, including reproduction of detail and/or the author's main thought.

[Appears in figure 25, table 21, table 23, table 25, table 27, table 29]

Reading Proficiency Level 2: simple inferences beyond the author's main thought, and/or understanding and evaluating abstract concepts.

[Appears in figure 25, table 21, table 23, figure 27, table 25, table 27, figure 29, table 29, figure 31]

Reading Proficiency Level 3: complex inferences or evaluative judgments requiring multiple sources of information.

[Appears in figure 25, table 21, table 23, table 25, table 27, table 29]

MATHEMATICS PROFICIENCY LEVEL 1, LEVEL 2, LEVEL 3, LEVEL 4, AND LEVEL 5 (BYTX1MPP, BYTX2MPP, BYTX3MPP, BYTX4MPP, BYTX5MPP): Data from variables marking probability of proficiency at mathematics level 1, level 2, level 3, level 4, and level 5 appear in the figures and tables indicated below.

Mathematics Proficiency Level 1: simple arithmetical operations on whole numbers.

[Appears in figure 26, table 22, table 24, table 26, table 28, table 30]

Mathematics Proficiency Level 2: simple operations with decimals, fractions, powers, and roots.

[Appears in figure 26, table 22, table 24, table 26, table 28, table 30]

Mathematics Proficiency Level 3: simple problem solving, requiring the understanding of low-level mathematical concepts.

[Appears in figure 26, table 22, table 24, table 26, table 28, table 30]

Mathematics Proficiency Level 4: understanding of intermediate-level mathematical concepts and/or multistep solutions to word problems.

[Appears in figure 26, table 22, table 24, table 26, figure 28, table 28, figure 30, table 30, figure 32]

Mathematics Proficiency Level 5: complex multistep word problems and/or advanced mathematics material.

[Appears in figure 26, table 22, table 24, table 28, table 30]

Details about test development can be found in Burns et al. (2003). Information about test administration, and test reliabilities and characteristics, may be found in Ingels et al. (2004). Basic score reporting conventions follow those of NELS:88 (see Rock and Pollack [1995]).

Please note: When this report was in a late stage of preparation, an error was found in the reading scores of a subset of the base-year student sample. An investigation of the impact of the error established that estimates based on the erroneous scores differed by very little from corrected estimates (where there was an effect at all, it was generally in the low tenths of 1 percent range) and affected no conclusions of this or other NCES reports then being drafted or reviewed. Nonetheless, because the base-year error has now been corrected, data users employing the corrected files will find that they cannot replicate precisely the reading score estimates in this report.

#### **EXPECTATIONS FOR THE FUTURE**

EDUCATIONAL EXPECTATIONS (STEXPECT): This variable is taken directly from the student questionnaire (BYS56) when available and imputed otherwise. Students were asked, "As things stand now, how far in school do you think you will get?" The eight response options were (1) Less than high school graduation; (2) High school graduation or GED only;

(3) Attend or complete a 2-year school course in a community college or vocational school;

(4) Attend college, but not complete a 4-year degree; (5) Graduate from college; (6) Obtain a

While the expectations for educational attainment variable is subject to the limitations of single-item measures, it is repeated over time, that is, asked on a cross-round basis. It has been one of the most frequently employed variables in analyses of both HS&B data and NELS:88, showing expected relationships with related variables when incorporated into multivariate models (see, for example, Kao and Tienda [1998]; Plank and Jordan [2001]; Smith-Maddox [1999, 2000]). Cross-round analyses in NELS:88 show that the expectation question behaves the way it "should" (in relation to what is theoretically expected) over time, with diminishing expectations as students accumulate a more realistic picture of their capacities and the world (see McLaughlin and Cohen [1997]).

master's degree or equivalent; (7) Obtain a Ph.D., M.D., or other advanced degree; and (8) Don't know. For some (but not all) tables in this report, these categories were collapsed into five: High school diploma or less (1 and 2), Some college (3 and 4), College graduate (5), Graduate/professional degree (6 and 7), and Don't know (8).

[Appears in table 2, table 4, table 5, table 6, table 8, table 9, table 11, table 14, table 15 (expect to earn a 4-year degree or higher), table 16 (expect to earn a 4-year degree or higher), table 17, table 18, table 19a, table 19b, table 20, table 21, table 22, table 27, table 28, figure 29, figure 30, table 31, table 32, table 33, figure 33, table 34, figure 34, table 35, table 36]

PLANS FOR EDUCATION AFTER HIGH SCHOOL (BYS57): This variable is taken directly from the student questionnaire. Students (except those who thought they would not finish high school and those who thought they would not advance beyond high school as reported in BYS56) were asked: "Do you plan to continue your education right after high school or at some time in the future?" The response options were as follows: Yes, right after high school; Yes, after staying out of school for one year; Yes, after staying out of school for over a year; Yes, but I don't know when; No, I don't plan to continue my education after high school; and I don't know if I will continue my education after high school. For this report, students who expect to go directly to college are those who answered "Yes, right after high school." See table A-2 for the weighted response rate.

[Appears in table 15, table 16, table 36]

WANT TO PARTICIPATE IN COLLEGE SPORTS (BYS60): This variable is taken directly from the student questionnaire. Students who indicated that they planned to continue their education after high school (BYS57) were asked if they would like to participate in athletics (not intramural) at the collegiate level. See table A-2 for the weighted response rate.

[Appears in table 15]

HOPE TO GET AN ATHLETIC SCHOLARSHIP (BYS61): This variable is taken directly from the student questionnaire. Students who indicated that they planned to continue their education after high school (BYS57) and would like to participate in athletics at the collegiate level (BYS60) were asked if they hoped to receive an athletic scholarship to pay for all or part of their college expenses. See table A-2 for the weighted response rate.

[Appears in table 15]

LIFE VALUES (BYS54A-L, BYS54N, BYS54O): These variables are taken directly from the student questionnaire. Students rated the importance of a series of life values related to work and education, family and friends, and community: Not important, Somewhat important, or Very important. See table A-2 for weighted response rates.

[Appears in table 31 (BYS54O, BYS54A, BYS54N, BYS54C, BYS54E, BYS54L), table 32 (BYS54B, BYS54K, BYS54G, BYS54D), table 33 (BYS54H, BYS54I, BYS54F, BYS54J)]

MOST IMPORTANT THING TO DO RIGHT AFTER HIGH SCHOOL (BYS66A, BYS66B, BYS66E, BYS66F): These variables are taken directly from the student

questionnaire. Students were asked what their mother, father, school counselor, and favorite teacher thought was the most important thing for them to do after high school: Go to college, Get a full-time job, Enter a trade school or an apprenticeship, Enter military service, Get married, They think I should do what I want, or I don't know. See table A-2 for weighted response rates.

[Appears in table 37]

OCCUPATION AT AGE 30 (BYOCC30): The occupation 10th-graders expected or planned to have at age 30 was coded into one of 17 categories by project personnel from student-provided text strings (BYS64 in restricted use data). See table A-2 for the weighted response rate.

[Appears in table 38, table 39, figure 35]

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## Appendix B Standard Error Tables

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## Appendix B **Standard Error Tables**

**NOTE:** Some estimates may be correlated with each other. Generating statistical tests for such estimates solely with these standard errors implicitly assumes these covariances are zero and may be different from the actual significance test used in the report.

Table B-1. Standard errors for table 1 estimates (percentage of high school sophomores in each geographic region): 2002

Region	Standard error
Northeast <sup>1</sup>	0.65
Midwest <sup>2</sup>	0.65
South <sup>3</sup>	0.66
West <sup>4</sup>	0.81

Northeast = CT, ME, MA, NH, NJ, NY, PA, RI, VT.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002).

Table B-2. Standard errors for table 2 estimates (percentage of high school sophomores, by highest level of education expected): 2002

Level of education	Standard error
Less than high school	0.10
High school completion or GED	0.30
Attend or complete 2-year community college or vocational school	0.29
Attend 4-year program, but not complete degree	0.18
Graduate from college	0.46
Master's degree or equivalent	0.44
Ph.D., M.D., or other advanced degree	0.40
Don't know	0.30

Normeast = C1, Mie, Mia, Mi, No, Ni, La, Ni, VI.

Midwest = IL, IN, IA, KS, MI, MN, MO, NE, ND, OH, SD, WI.

South = AL, AR, DE, DC, FL, GA, KY, LA, MD, MS, NC, OK, SC, TN, TX, VA, WV.

West = AK, AZ, CA, CO, HI, ID, MT, NV, NM, OR, UT, WA, WY.

Table B-3. Standard errors for table 3 estimates (percentage of high school sophomores, by type of academic program): 2002

Type of program	Standard error
General	0.63
College preparatory—academic	0.68
Vocational, including technical/ business	0.46

Table B-4. Standard errors for table 4 estimates (percentage of high school sophomores who agreed or strongly agreed with various statements about their school and teachers in their school, and percentage who reported that they liked their school a great deal, by selected student and school characteristics): 2002

By Science	2 0 1 2 2 1 1 2				_	Students	
	<b>T</b> I		01 1 1	<b>T</b>	When I	of different	1.91
	There is real	The	Students get along	Teachers are	work hard, teachers	racial/ethnic groups	Liked school a
Selected student and	school	teaching	well with	interested	praise	make	great
school characteristics	spirit	is good	teachers	in students	my effort	friends	deal
Total	0.71	0.50	0.60	0.54	0.55	0.34	0.45
Sex							
Male	0.91	0.67	0.71	0.75	0.77	0.47	0.61
Female	0.85	0.62	0.84	0.66	0.73	0.45	0.62
Racial/ethnic group American Indian or							
Alaska Native	4.01	4.85	6.25	5.09	5.65	3.65	3.19
Asian or Pacific Islander	1.90	1.37	1.49	1.45	1.77	0.96	1.50
Black	1.40	1.29	1.37	1.39	1.34	0.77	1.19
Hispanic or Latino	1.68	1.02	1.42	1.24	1.30	0.80	1.23
More than one race	2.32	2.09	2.51	2.31	2.36	1.46	2.12
White	0.89	0.63	0.64	0.68	0.73	0.45	0.54
Socioeconomic status							
Lowest quartile	1.08	0.84	1.14	0.97	1.04	0.65	0.87
Middle two quartiles	0.89	0.67	0.75	0.69	0.73	0.47	0.58
Highest quartile	1.19	0.87	0.84	0.86	1.01	0.62	0.87
Parents' education							
High school or less	1.07	0.79	0.98	0.94	0.95	0.65	0.86
Some college	0.92	0.79	0.89	0.81	0.84	0.51	0.67
College graduation Graduate/professional	1.21	0.96	1.00	1.00	0.94	0.66	0.96
degree	1.36	1.07	1.06	1.11	1.28	0.81	1.06
Native language <sup>1</sup>							
English	0.74	0.56	0.62	0.57	0.59	0.38	0.47
Non-English	1.59	0.95	1.38	1.10	1.17	0.84	1.24
Student's educational expectations							
High school or less	1.76	1.66	1.62	1.76	1.75	1.22	1.24
Some college	1.52	1.41	1.45	1.51	1.53	0.99	1.07
College graduation Graduate/professional	0.94	0.74	0.81	0.79	0.87	0.46	0.72
degree	0.95	0.66	0.82	0.73	0.77	0.54	0.77
Don't know	1.62	1.38	1.56	1.45	1.51	1.07	1.15

Standard errors for table 4 estimates (percentage of high school sophomores who Table B-4. agreed or strongly agreed with various statements about their school and teachers in their school, and percentage who reported that they liked their school a great deal, by selected student and school characteristics): 2002—Continued

						Students	
					When I	of different	
	There is		Students	Teachers	work hard,	racial/ethnic	Liked
	real	The	get along	are	teachers	groups	school a
Selected student and school characteristics	school spirit	teaching is good	well with teachers	interested in students	praise my effort	make friends	great deal
	эрин	is good	leachers	iii students	my enon	menus	ueai
High school program <sup>2</sup>							
General	0.98	0.79	0.91	0.88	0.84	0.56	0.65
College preparatory	0.84	0.57	0.69	0.61	0.72	0.41	0.63
Vocational	1.67	1.31	1.47	1.62	1.45	0.97	1.22
Composite achievement test score in sophomore							
year	4.00	0.07	4.00	4.00	0.05	0.74	0.00
Lowest quartile	1.06	0.97	1.09	1.02	0.95	0.74	0.96
Middle two quartiles	0.83	0.62	0.75	0.66	0.77	0.45	0.58
Highest quartile	1.18	0.73	0.80	0.81	0.99	0.59	0.92
Sophomore's school sector							
Public	0.76	0.53	0.64	0.58	0.58	0.37	0.47
Catholic	1.58	0.96	1.06	1.11	1.44	0.66	1.46
Other private	2.71	1.25	1.57	1.39	1.61	1.28	2.61
Region of sophomore's school							
Northeast	2.09	1.20	1.28	1.21	1.13	0.75	1.05
Midwest	1.27	1.07	1.28	1.20	1.22	0.72	0.84
South	1.00	0.76	1.00	0.90	0.86	0.56	0.77
West	1.61	1.11	1.28	1.13	1.26	0.76	0.99
Urbanicity of sophomore's school							
Urban	1.16	1.11	1.32	1.01	0.96	0.56	0.91
Suburban	1.08	0.60	0.76	0.69	0.77	0.50	0.59
Rural	1.50	1.09	1.13	1.46	1.32	0.79	0.99

<sup>&</sup>lt;sup>1</sup>The first language students learned to speak when they were children. <sup>2</sup>Students' self-reports of the type of high school program in which they participated.

NOTE: All race categories exclude Hispanic.

Table B–5. Standard errors for table 5 estimates (percentage of high school sophomores who agreed or strongly agreed with various statements about school safety, by selected student and school characteristics): 2002

Selected student and school characteristics	I do not feel safe at this school	There are gangs in school	Fights often occur between different racial/ethnic groups
Total	0.39	0.85	0.73
Sex			
Male	0.50	1.00	0.88
Female	0.51	0.98	0.89
Racial/ethnic group			
American Indian or Alaska Native	3.38	7.74	6.34
Asian or Pacific Islander	1.17	2.38	1.98
Black	1.15	2.08	1.41
Hispanic or Latino	1.08	2.11	2.11
More than one race	1.77	2.45	2.20
White	0.44	0.89	0.80
Socioeconomic status			
Lowest quartile	0.80	1.43	1.26
Middle two quartiles	0.53	0.98	0.87
Highest quartile	0.57	1.13	0.94
Parents' education			
High school or less	0.72	1.36	1.17
Some college	0.62	1.06	0.92
College graduation	0.72	1.14	1.06
Graduate/professional degree	0.74	1.33	1.09
Native language <sup>1</sup>			
English	0.41	0.84	0.71
Non-English	1.11	1.86	1.94
Student's educational expectations			
High school or less	1.56	2.10	2.04
Some college	1.17	1.60	1.65
College graduation	0.53	1.12	0.93
Graduate/professional degree	0.49	1.00	0.89
Don't know	1.16	1.75	1.70
High school program <sup>2</sup>			
General	0.62	1.22	1.03
College preparatory	0.48	0.95	0.80
Vocational	1.12	1.70	1.75

Standard errors for table 5 estimates (percentage of high school sophomores who Table B-5. agreed or strongly agreed with various statements about school safety, by selected student and school characteristics): 2002—Continued

Selected student and school characteristics	I do not feel safe at this school	There are gangs in school	Fights often occur between different racial/ethnic groups
Composite achievement test score in sophomore year			
Lowest quartile	0.85	1.39	1.28
Middle two quartiles	0.50	1.00	0.84
Highest quartile	0.47	1.12	0.90
Sophomore's school sector			
Public	0.41	0.90	0.78
Catholic	0.57	1.41	0.99
Other private	0.65	0.89	0.95
Region of sophomore's school			
Northeast	0.97	1.91	2.07
Midwest	0.68	1.69	1.31
South	0.67	1.24	0.93
West	0.81	2.09	1.84
Urbanicity of sophomore's school			
Urban	0.81	1.51	1.48
Suburban	0.53	1.25	1.01
Rural	0.65	1.65	1.33

<sup>&</sup>lt;sup>1</sup>The first language students learned to speak when they were children. <sup>2</sup>Students' self-reports of the type of high school program in which they participated.

NOTE: All race categories exclude Hispanic.

Appendix B: Standard Error Tables

Table B–6. Standard errors for table 6 estimates (percentage of high school sophomores who experienced various kinds of crime and bullying at school at least once or twice during the first semester/term of the school year, by selected student and school characteristics): 2002

Selected student and school characteristics	Any crime and bullying	I had something stolen from me	Someone offered to sell me drugs	Someone threatened to hurt me	I got into a physical fight	Someone hit me	Someone used strong-arm or forceful methods to get money or things from me	Someone purposely damaged or destroyed my belongings	Someone bullied me or picked on me
Total	0.53	0.54	0.53	0.46	0.40	0.46	0.16	0.39	0.44
Sex									
Male	0.67	0.75	0.74	0.71	0.59	0.71	0.25	0.58	0.61
Female	0.77	0.74	0.65	0.62	0.41	0.51	0.18	0.44	0.60
Racial/ethnic group American Indian or Alaska Native Asian or Pacific	4.94	3.63	5.01	5.61	3.22	4.83	2.37	5.23	4.45
Islander	1.98	1.92	1.47	1.45	0.95	1.34	0.48	1.13	1.35
Black	1.29	1.44	1.20	1.04	1.13	1.18	0.55	1.01	0.96
Hispanic or Latino	1.17	1.17	1.33	1.14	0.94	1.03	0.46	0.86	1.06
More than one race	1.95	2.54	2.23	2.27	1.79	2.13	0.96	2.00	2.04
White	0.70	0.69	0.64	0.62	0.48	0.59	0.19	0.48	0.57
Socioeconomic status									
Lowest quartile	0.94	0.86	1.02	0.96	0.79	0.90	0.31	0.69	0.85
Middle two quartiles	0.69	0.77	0.70	0.65	0.56	0.62	0.23	0.53	0.57
Highest quartile	1.03	1.01	0.91	0.77	0.64	0.77	0.28	0.71	0.80
Parents' education									
High school or less	0.96	0.85	0.95	0.96	0.76	0.86	0.28	0.69	0.82
Some college	0.83	0.92	0.87	0.78	0.67	0.75	0.28	0.62	0.67
College graduation Graduate/ professional	1.03	1.10	0.98	0.94	0.75	0.89	0.36	0.82	0.95
degree	1.26	1.30	1.08	0.99	0.81	1.03	0.35	0.89	0.96
Native language <sup>1</sup>									
English	0.58	0.61	0.55	0.52	0.42	0.51	0.17	0.42	0.48
Non-English	1.33	1.17	1.37	1.12	1.00	1.03	0.49	0.93	1.03

Table B–6. Standard errors for table 6 estimates (percentage of high school sophomores who experienced various kinds of crime and bullying at school at least once or twice during the first semester/term of the school year, by selected student and school characteristics): 2002—Continued

Selected student and school characteristics	Any crime and bullying	I had something stolen from me	Someone offered to sell me drugs	Someone threatened to hurt me	I got into a physical fight	Someone hit me	Someone used strong-arm or forceful methods to get money or things from me	Someone purposely damaged or destroyed my belongings	Someone bullied me or picked on me
Student's educational	and banying		a. a.g.				ge		
expectations									
High school or less	1.49	1.83	1.73	1.62	1.65	1.84	0.95	1.35	1.48
Some college	1.43	1.53	1.60	1.32	1.48	1.63	0.56	1.21	1.34
College graduation Graduate/	0.84	0.85	0.81	0.70	0.60	0.71	0.22	0.61	0.63
professional degree	0.85	0.84	0.72	0.72	0.54	0.68	0.23	0.62	0.71
Don't know	1.42	1.72	1.47	1.36	1.16	1.37	0.58	1.22	1.34
High school program <sup>2</sup>									
General	0.80	0.83	0.88	0.77	0.61	0.74	0.31	0.62	0.72
College preparatory	0.71	0.73	0.63	0.54	0.48	0.51	0.19	0.52	0.59
Vocational	1.46	1.57	1.35	1.44	1.34	1.41	0.53	1.06	1.25
Composite achievement test score in sophomore year									
Lowest quartile	0.98	1.06	1.03	1.01	0.86	0.93	0.41	0.78	0.88
Middle two quartiles	0.68	0.74	0.69	0.63	0.53	0.58	0.21	0.51	0.57
Highest quartile	0.99	1.01	0.92	0.88	0.50	0.80	0.22	0.79	0.83
Sophomore's school sector									
Public	0.56	0.57	0.56	0.49	0.42	0.49	0.17	0.41	0.47
Catholic	1.71	1.68	1.18	1.06	1.09	1.48	0.38	1.04	0.94
Other private	2.29	2.43	1.33	1.69	0.91	1.21	0.52	1.18	1.29

Appendix B: Standard Error Tables

Table B-6. Standard errors for table 6 estimates (percentage of high school sophomores who experienced various kinds of crime and bullying at school at least once or twice during the first semester/term of the school year, by selected student and school characteristics): 2002—Continued

Selected student and school characteristics	Any crime and bullying	I had something stolen from me	Someone offered to sell me drugs	Someone threatened to hurt me	l got into a physical fight	Someone hit me	Someone used strong-arm or forceful methods to get money or things from me	Someone purposely damaged or destroyed my belongings	Someone bullied me or picked on me
Region of sophomore's school									
Northeast	1.08	1.07	1.10	1.15	0.80	1.05	0.31	0.86	0.93
Midwest	1.06	1.13	0.99	0.97	0.84	1.10	0.35	0.79	0.96
South	0.91	0.85	0.81	0.72	0.61	0.64	0.23	0.56	0.64
West	1.24	1.28	1.39	1.01	0.96	0.99	0.42	0.97	1.07
Urbanicity of sophomore's school									
Urban	0.94	1.06	0.90	0.83	0.76	0.78	0.33	0.68	0.64
Suburban	0.73	0.71	0.78	0.65	0.50	0.58	0.22	0.54	0.64
Rural	1.35	1.24	1.15	1.09	1.02	1.33	0.33	0.93	1.13

<sup>&</sup>lt;sup>1</sup>The first language students learned to speak when they were children.

NOTE: All race categories exclude Hispanic.

<sup>&</sup>lt;sup>2</sup>Students' self-reports of the type of high school program in which they participated.

Table B-7. Standard errors for table 7 estimates (percentage of high school sophomores who agreed or strongly agreed with various statements about their school rules, by selected school characteristics): 2002

			Punishment for		If a school rule is
	Everyone		breaking school	The school	broken, students
	knows what	The school	rules is the	rules are	know what kind
	the school	rules are	same no matter	strictly	of punishment
Selected school characteristics	rules are	fair	who you are	enforced	will follow
Total	0.48	0.65	0.59	0.57	0.54
Sophomore's school sector					
Public	0.52	0.69	0.63	0.61	0.57
Catholic	1.03	2.06	1.76	1.30	1.33
Other private	1.27	2.39	2.26	2.35	1.92
Region of sophomore's school					
Northeast	1.30	1.44	1.49	1.35	1.22
Midwest	0.91	1.46	1.36	1.27	1.14
South	0.76	0.96	0.88	0.89	0.82
West	0.99	1.53	1.18	1.20	1.27
Urbanicity of sophomore's school					
Urban	0.98	1.18	1.03	0.95	0.79
Suburban	0.63	0.93	0.87	0.83	0.81
Rural	1.08	1.42	1.31	1.33	1.30
I feel unsafe at school					
Agreed/strongly agreed	1.45	1.55	1.64	1.52	1.54
Disagreed/strongly disagreed	0.48	0.67	0.62	0.59	0.56

Table B–8. Standard errors for table 8 estimates (percentage distribution of high school sophomores according to their reports on how important good grades were to them, by selected student and school characteristics): 2002

by delected stadent and serious end				
Selected student and school characteristics	Not important	Somewhat important	Important	Very important
Total	0.12	0.37	0.46	0.53
Sex				
Male	0.20	0.57	0.59	0.73
	0.20	0.57	0.59	
Female	0.10	0.42	0.70	0.69
Racial/ethnic group				
American Indian or Alaska Native	3.24	2.46	4.53	4.46
Asian or Pacific Islander	0.26	0.68	1.84	1.92
Black	0.17	0.68	1.34	1.38
Hispanic or Latino	0.33	0.81	1.15	1.14
More than one race	0.56	1.66	2.19	2.29
White	0.15	0.51	0.61	0.70
Socioeconomic status				
Lowest quartile	0.23	0.73	0.87	1.02
Middle two quartiles	0.18	0.51	0.69	0.69
Highest quartile	0.21	0.67	0.95	1.00
riighest quartie	0.21	0.01	0.55	1.00
Parents' education				
High school or less	0.23	0.70	0.88	0.93
Some college	0.19	0.59	0.90	0.90
College graduation	0.29	0.60	0.99	1.05
Graduate/professional degree	0.20	0.84	1.14	1.25
Native language <sup>1</sup>				
English	0.12	0.41	0.52	0.60
Non-English	0.30	0.79	1.13	1.27
Student's educational expectations				
High school or less	0.82	1.58	1.62	1.68
Some college	0.40	1.27	1.42	1.30
College graduation	0.40	0.60	0.83	0.89
Graduate/professional degree	0.11	0.34	0.69	0.78
Don't know	0.58	1.27	1.65	1.50
High school program <sup>2</sup>				
General	0.27	0.75	0.79	0.86
College preparatory	0.10	0.34	0.62	0.67
Vocational	0.36	1.08	1.52	1.63
Composite achievement test score in sophomore year				
Lowest quartile	0.30	0.75	1.01	1.11
Middle two quartiles	0.15	0.54	0.70	0.75
Highest quartile	0.22	0.58	0.93	0.97

Standard errors for table 8 (percentage distribution of high school sophomores Table B-8. according to their reports on how important good grades were to them, by selected student and school characteristics): 2002—Continued

Selected student and school characteristics	Not important	Somewhat important	Important	Very important
Sophomore's school sector				
Public	0.12	0.40	0.49	0.57
Catholic	0.27	0.75	1.41	1.13
Other private	0.39	1.13	2.06	2.09
Region of sophomore's school				
Northeast	0.32	0.85	1.14	1.21
Midwest	0.21	0.83	0.89	1.17
South	0.17	0.47	0.73	0.83
West	0.28	0.93	1.04	1.15
Urbanicity of sophomore's school				
Urban	0.21	0.55	0.87	0.90
Suburban	0.17	0.50	0.66	0.75
Rural	0.23	1.08	0.95	1.31

<sup>&</sup>lt;sup>1</sup>The first language students learned to speak when they were children. <sup>2</sup>Students' self-reports of the type of high school program in which they participated.

NOTE: All race categories exclude Hispanic.

:Appendix B Standard Error Tables

Table B–9. Standard errors for table 9 estimates (percentage of high school sophomores who agreed or strongly agreed with various statements about the reasons for going to school, by selected student and school characteristics): 2002

Selected student and school characteristics	Education is important for getting a job later on	My parents expect me to succeed	I am learning skills that I will need for a job	School is a place to meet my friends	I get a feeling of satisfaction from doing what I am supposed to do in class	My teachers expect me to succeed	The subjects that I am taking are interesting & challenging	I play on a team or belong to a club	I have nothing better to do
Total	0.18	0.25	0.38	0.48	0.56	0.50	0.55	0.59	0.54
Sex									
Male	0.29	0.39	0.54	0.64	0.76	0.69	0.81	0.78	0.73
Female	0.20	0.32	0.47	0.62	0.70	0.67	0.71	0.76	0.69
Racial/ethnic group American Indian or Alaska Native	2.90	2.23	4.07	3.65	4.66	6.66	4.77	4.85	5.43
Asian or Pacific Islander	0.38	0.55	1.12	1.26	1.69	2.02	1.77	2.18	1.80
Black	0.39	0.57	0.91	1.49	1.19	1.15	1.31	1.40	1.21
Hispanic or Latino	0.51	0.65	0.88	1.12	1.45	1.33	1.26	1.21	1.40
More than one race	0.64	1.32	1.64	1.55	2.25	2.51	2.38	2.47	2.19
White	0.24	0.33	0.50	0.45	0.70	0.67	0.71	0.75	0.69
Socioeconomic status									
Lowest quartile	0.42	0.46	0.69	0.87	1.05	0.99	1.00	0.98	0.91
Middle two quartiles	0.25	0.33	0.55	0.65	0.75	0.66	0.75	0.81	0.72
Highest quartile	0.30	0.50	0.74	0.67	1.02	0.95	1.06	1.05	0.98
Parents' education									
High school or less	0.41	0.47	0.70	0.79	1.01	0.96	1.02	0.96	0.98
Some college	0.31	0.41	0.64	0.79	0.90	0.82	0.83	0.88	0.79
College graduation	0.39	0.53	0.73	0.81	1.03	0.96	1.06	1.06	1.10
Graduate/professional degree	0.33	0.59	0.95	0.85	1.31	1.20	1.34	1.32	1.09
Native language <sup>1</sup>									
English	0.19	0.27	0.41	0.52	0.59	0.53	0.59	0.64	0.57
Non-English	0.53	0.69	0.82	1.09	1.25	1.23	1.27	1.26	1.42

Standard errors for table 9 estimates (percentage of high school sophomores who agreed or strongly agreed with various statements about the reasons for going to school, by selected student and school characteristics): 2002—Continued

Selected student and school characteristics	Education is important for getting a job later on	My parents expect me to succeed	I am learning skills that I will need for a job	School is a place to meet my friends	I get a feeling of satisfaction from doing what I am supposed to do in class	My teachers expect me to succeed	The subjects that I am taking are interesting & challenging	I play on a team or belong to a club	I have nothing better to do
Student's educational expectation	ns		-	•					
High school or less	1.26	1.16	1.75	1.45	1.80	1.79	1.89	1.58	1.71
Some college	0.72	0.70	1.20	1.22	1.65	1.58	1.67	1.39	1.53
College graduation	0.24	0.40	0.61	0.72	0.85	0.83	0.91	0.91	0.79
Graduate/professional degree	0.17	0.41	0.57	0.66	0.75	0.77	0.82	0.94	0.79
Don't know	0.78	0.80	1.25	1.35	1.49	1.62	1.55	1.64	1.57
High school program <sup>2</sup>									
General	0.36	0.44	0.64	0.74	0.82	0.75	0.91	0.87	0.79
College preparatory	0.16	0.34	0.44	0.55	0.69	0.71	0.71	0.78	0.68
Vocational	0.65	0.81	1.03	1.36	1.48	1.64	1.55	1.59	1.54
Composite achievement test score in sophomore year									
Lowest quartile	0.48	0.53	0.74	1.02	0.97	0.95	1.09	0.87	0.95
Middle two quartiles	0.24	0.33	0.56	0.57	0.76	0.70	0.68	0.76	0.75
Highest quartile	0.29	0.53	0.72	0.67	0.96	0.93	1.00	1.02	0.97
Sophomore's school sector									
Public	0.19	0.26	0.40	0.51	0.60	0.53	0.58	0.62	0.58
Catholic	0.43	0.75	1.06	1.05	1.21	1.33	1.74	1.48	1.24
Other private	0.61	1.08	1.25	1.46	1.68	2.58	2.24	2.24	1.47
Region of sophomore's school									
Northeast	0.42	0.51	1.01	1.06	1.23	1.16	1.25	1.64	1.07
Midwest	0.33	0.46	0.79	1.00	1.11	0.90	1.16	1.09	1.08
South	0.25	0.40	0.57	0.82	0.95	0.76	0.88	0.93	0.71
West	0.46	0.63	0.77	1.03	1.23	1.28	1.17	1.24	1.51
Urbanicity of sophomore's school									
Urban	0.27	0.45	0.70	1.03	1.05	0.89	1.04	1.02	0.93
Suburban	0.26	0.35	0.52	0.59	0.75	0.68	0.73	0.85	0.78
Rural	0.43	0.55	0.84	1.01	1.32	1.24	1.31	1.40	1.23

<sup>&</sup>lt;sup>1</sup>The first language students learned to speak when they were children. <sup>2</sup>Students' self-reports of the type of high school program in which they participated.

NOTE: All race categories exclude Hispanic.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002).

Table B-10. Standard errors for table 10 estimates (percentage of high school sophomores who participated in various school-sponsored activities): 2002

	Standard
Activity	error
Academic club	0.33
Band, orchestra, chorus, choir	0.52
Hobby club	0.34
National Honor Society (NHS) or other academic honor society	0.33
School play or musical	0.38
School yearbook, newspaper, literary magazine	0.28
Service club	0.41
Sports <sup>1</sup>	0.63
Student government	0.28
Vocational education club, vocational student organization (e.g., DECA, VICA, FFA, FHA <sup>5</sup> )	0.43

Students were defined as sports participants if they indicated that they participated in at least one sport at the intramural or interscholastic level. Cheerleading, pompon (pompom), and drill team were not included in this category. Students were defined as sports nonparticipants if they did not participate in *any* sports or they indicated that their school did not offer sports.

<sup>&</sup>lt;sup>2</sup> Distributive Education Clubs of America.

<sup>&</sup>lt;sup>3</sup> Vocational Industrial Clubs of America.

<sup>&</sup>lt;sup>4</sup> Future Farmers of America.

<sup>&</sup>lt;sup>5</sup> Future Homemakers of America.

Table B–11. Standard errors for table 11 estimates (percentage of high school sophomores who participated in various school-sponsored activities, by selected student and school characteristics): 2002

Selected student and school characteristics	Academic club	Sports	Cheer- leading	Hobby club	Music (band, orchestra, chorus, or choir)	Vocational education club or vocational student organization
Total	0.33	0.63	0.46	0.34	0.52	0.43
0						
Sex	0.20	0.04	0.52	0.44	0.00	0.52
Male	0.38	0.81	0.52	0.41 0.50	0.60	0.53
Female	0.46	0.85	0.63	0.50	0.71	0.53
Racial/ethnic group						
American Indian or Alaska Native	2.15	5.33	2.90	2.23	3.75	3.61
Asian or Pacific Islander	1.33	1.87	1.06	1.41	1.56	0.57
Black	0.67	1.48	1.16	0.68	1.33	0.81
Hispanic or Latino	0.60	1.59	0.97	0.64	0.91	0.63
More than one race	1.29	2.53	1.82	1.50	1.80	1.31
White	0.43	0.79	0.54	0.47	0.65	0.60
Socioeconomic status						
Lowest quartile	0.46	1.09	0.73	0.50	0.75	0.76
Middle two quartiles	0.38	0.82	0.60	0.39	0.64	0.50
Highest quartile	0.74	1.05	0.78	0.79	1.02	0.57
Parents' education						
High school or less	0.43	1.06	0.77	0.44	0.72	0.69
Some college	0.45	0.87	0.69	0.48	0.75	0.56
College graduation	0.65	1.13	0.78	0.67	1.01	0.62
Graduate/professional degree	0.93	1.39	0.86	0.89	1.19	0.67
Student's educational expectations						
High school or less	0.61	1.79	1.18	0.74	1.15	1.04
Some college	0.62	1.69	1.08	0.86	1.15	1.12
College graduation	0.40	0.97	0.64	0.46	0.74	0.56
Graduate/professional degree	0.61	0.90	0.70	0.63	0.87	0.56
Don't know	0.68	1.55	1.08	0.77	1.22	0.80
Native language <sup>1</sup>						
English	0.34	0.66	0.50	0.37	0.55	0.48
Non-English	0.63	1.51	0.82	0.65	0.86	0.52
High school program <sup>2</sup>						
General	0.37	0.97	0.64	0.50	0.74	0.61
College preparatory	0.51	0.78	0.56	0.48	0.74	0.44
Vocational	0.56	1.63	1.14	0.84	1.12	1.34

Table B-11. Standard errors for table 11 estimates (percentage of high school sophomores who participated in various school-sponsored activities, by selected student and school characteristics): 2002—Continued

Selected student and school characteristics	Academic club	Sports	Cheer- leading	Hobby club	Music (band, orchestra, chorus, or choir)	Vocational education club or vocational student organization
Composite achievement test score in sophomore year						
Lowest quartile	0.42	1.03	0.82	0.52	0.79	0.63
Middle two quartiles	0.37	0.81	0.56	0.42	0.62	0.53
Highest quartile	0.80	1.04	0.73	0.75	1.02	0.67
Sophomore's school sector						
Public	0.34	0.67	0.49	0.35	0.53	0.46
Catholic	1.20	1.38	1.06	1.35	1.82	0.37
Other private	1.66	2.16	1.96	2.14	3.61	1.02
Region of sophomore's school						
Northeast	0.85	1.36	1.26	0.78	1.29	0.63
Midwest	0.57	1.36	0.89	0.77	1.07	1.10
South	0.58	0.89	0.76	0.50	0.85	0.73
West	0.66	1.53	0.88	0.77	0.95	0.80
Urbanicity of sophomore's school						
Urban	0.59	1.08	0.73	0.71	0.96	0.46
Suburban	0.46	0.91	0.71	0.46	0.70	0.52
Rural	0.74	1.47	0.94	0.67	1.27	1.60

The first language students learned to speak when they were children.

<sup>&</sup>lt;sup>2</sup>Students' self-report of the type of high school program in which they participated.

NOTE: See appendix A for the weighted response rates of all unimputed variables used in this analysis. All race categories exclude Hispanic.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002).

Table B-12. Standard errors for table 12 estimates (percentage of high schools offering various sports to male and female students, by school type): 2002

	Tot	al	Pub	olic	Cath	olic	Other priva	te school
Sports	Male students	Female students						
Baseball	3.54	0.49	3.95	0.38	0.00	4.85	8.59	1.67
Softball	1.93	3.37	0.52	3.95	2.13	6.86	8.40	8.24
Basketball	1.48	2.27	0.93	2.05	0.35	1.68	6.11	7.70
Football	3.27	2.08	3.73	2.72	5.21	0.66	8.06	0.52
Soccer	3.28	3.22	3.55	3.46	7.40	6.16	8.68	8.62
Swim team	2.31	2.34	2.67	2.69	8.89	8.52	4.82	4.93
Ice hockey	1.09	0.79	1.36	1.02	6.93	4.29	0.60	0.52
Field hockey	0.94	1.23	0.25	0.93	3.62	4.30	4.33	4.80
Volleyball	2.09	3.35	1.13	3.61	7.07	6.28	8.57	9.42
Lacrosse	0.92	0.85	1.01	0.95	6.16	3.88	2.04	2.12
Tennis	2.95	3.01	3.49	3.55	6.90	7.89	5.55	6.10
Cross-country	3.62	3.54	4.25	4.12	4.71	7.37	6.84	6.76
Track	3.39	3.29	3.63	3.44	6.19	6.61	9.37	9.53
Golf	3.78	3.59	4.39	4.24	2.34	7.64	8.39	7.52
Gymnastics	0.43	1.08	0.34	1.33	0.00	2.79	1.69	1.72
Wrestling	3.00	1.82	3.72	2.11	8.51	5.59	4.92	4.23
Cheerleading	2.99	3.02	3.80	3.46	6.53	4.48	1.57	8.20
Pompon (pompom), drill team	0.98	2.74	1.30	3.25	0.00	5.75	0.37	6.93
Other	1.48	1.25	1.09	1.21	7.74	7.11	5.67	3.76
No sports offered	1.18	1.19	0.88	1.02	0.00	0.00	4.62	4.36

Appendix B: Standard Error Tables

Table B-13. Standard errors for table 13 estimates (percentage of high school sophomores who attended schools offering various sports to male and female students, by school type): 2002

			Perd	Percentage of sophomores attending schools offering sport to:					
-	Tota	<u>.l</u>	Public Public		Catho	olic	Other private school		
Sports	Male students	Female students	Male students	Female students	Male students	Female students	Male students	Female students	
Baseball	0.92	0.80	0.97	0.85	0.00	2.77	5.20	0.99	
Softball	0.82	0.94	0.86	0.97	3.68	3.56	3.38	6.18	
Basketball	0.40	0.67	0.43	0.71	1.04	2.21	2.02	3.05	
Football	0.84	1.18	0.85	1.27	2.88	1.24	7.33	1.78	
Soccer	1.36	1.47	1.44	1.55	3.49	3.12	6.23	7.10	
Swim team	2.06	2.02	2.19	2.14	5.51	5.21	7.02	7.29	
Ice hockey	1.59	1.15	1.68	1.23	6.08	2.73	1.91	1.78	
Field hockey	0.70	1.28	0.74	1.34	2.31	4.45	1.59	6.61	
Volleyball	1.77	1.36	1.88	1.44	6.09	4.13	4.13	5.27	
Lacrosse	1.55	1.45	1.63	1.53	6.03	4.93	6.28	6.69	
Tennis	1.59	1.60	1.68	1.69	4.13	5.14	6.46	6.52	
Cross-country	1.21	1.18	1.29	1.23	1.79	2.99	6.17	6.93	
Track	0.89	0.93	0.93	0.97	2.56	3.03	6.08	6.08	
Golf	1.35	2.02	1.44	2.15	1.35	5.26	5.91	7.27	
Gymnastics	0.87	1.67	0.93	1.78	0.00	3.82	1.51	1.73	
Wrestling	1.66	1.55	1.75	1.65	5.93	3.90	6.46	2.24	
Cheerleading	2.26	1.09	2.41	1.14	5.92	4.05	5.50	6.37	
Pompon (pompom), drill team	1.58	2.15	1.70	2.28	0.00	5.70	0.51	5.15	
Other	1.62	1.79	1.71	1.90	6.55	6.72	4.96	3.89	
No sports offered	0.22	0.37	0.23	0.39	0.00	0.00	1.62	1.40	

Table B–14. Standard errors for table 14 estimates (percentage of high school sophomores who participated in one or more intramural or interscholastic sports, by selected student and school characteristics): 2002

Selected student and school characteristics	Did not participate <sup>1</sup>	Intramural	Junior varsity	Varsity	Varsity captain
Total	0.63	0.52	0.54	0.57	0.27
Sex					
Male	0.81	0.77	0.72	0.76	0.38
Female	0.85	0.64	0.64	0.72	0.31
Racial/ethnic group					
American Indian or Alaska Native	5.33	5.94	4.41	4.45	1.37
Asian or Pacific Islander	1.87	1.37	1.81	1.52	0.52
Black	1.48	1.21	1.51	1.23	0.67
Hispanic or Latino	1.59	1.41	1.43	1.09	0.54
More than one race	2.53	2.29	2.00	1.94	0.97
White	0.79	0.68	0.69	0.74	0.35
Socioeconomic status					
Lowest quartile	1.09	0.97	1.00	0.86	0.43
Middle two quartiles	0.82	0.72	0.70	0.75	0.37
Highest quartile	1.05	0.90	1.06	1.03	0.51
Parents' education					
High school or less	1.06	0.93	0.90	0.78	0.48
Some college	0.87	0.78	0.77	0.78	0.38
College graduation	1.13	1.00	1.14	1.12	0.50
Graduate/professional degree	1.39	1.06	1.27	1.27	0.64
Student's educational expectations					
High school or less	1.79	1.64	1.26	1.30	0.79
Some college	1.69	1.65	1.43	1.10	0.71
College graduation	0.97	0.88	0.87	0.78	0.39
Graduate/professional degree	0.90	0.79	0.88	0.90	0.42
Don't know	1.55	1.45	1.25	1.25	0.66
Native language <sup>2</sup>					
English	0.66	0.56	0.55	0.62	0.29
Non-English	1.51	1.35	1.38	0.97	0.58
High school program <sup>3</sup>					
General	0.97	0.80	0.76	0.80	0.32
College preparatory	0.78	0.70	0.77	0.74	0.38
Vocational	1.63	1.52	1.37	1.29	0.62

Table B-14. Standard errors for table 14 estimates (percentage of high school sophomores who participated in one or more intramural or interscholastic sports, by selected student and school characteristics): 2002—Continued

Selected student and school characteristics	Did not participate <sup>1</sup>	Intramural	Junior varsity	Varsity	Varsity captain
Composite achievement test score in sophomore year					
Lowest quartile	1.03	0.93	0.98	0.80	0.52
Middle two quartiles	0.81	0.72	0.67	0.74	0.30
Highest quartile	1.04	0.87	0.99	1.00	0.53
Sophomore's school sector					
Public	0.67	0.55	0.57	0.59	0.29
Catholic	1.38	1.50	2.07	1.89	0.64
Other private	2.16	2.64	2.59	2.87	1.10
Region of sophomore's school					
Northeast	1.36	1.14	1.33	1.29	0.74
Midwest	1.36	1.15	1.12	1.15	0.57
South	0.89	0.77	0.82	0.90	0.41
West	1.53	1.20	1.18	1.27	0.52
Urbanicity of sophomore's school					
Urban	1.08	0.82	0.93	1.01	0.43
Suburban	0.91	0.78	0.78	0.77	0.42
Rural	1.47	1.20	1.23	1.44	0.54

Students were defined as nonparticipants if they did not participate in any sports or they indicated their school did not offer sports.

<sup>2</sup>The first language students learned to speak when they were children.

<sup>&</sup>lt;sup>3</sup>Students' self-report of the type of high school program in which they participated.

NOTE: All race categories exclude Hispanic.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002).

Table B-15. Standard errors for table 15 estimates (percentage of high school sophomores participating in sports and extracurricular activities, by selected student characteristics): 2002

	Spc	orts	Extracurricula	ar activities	Non-
Selected student characteristics	Participants <sup>1</sup>	Non- participants	Participants <sup>2</sup>	Non- participants	participants in sports and extracurricular activities
Total	0.63	0.63	0.64	0.64	0.53
Expect to earn 4-year degree or higher	0.61	0.82	0.55	0.86	1.17
Expect to go directly to college	0.67	0.86	0.65	0.75	1.18
Highest test quartile	0.86	0.77	0.87	0.71	0.87
Highest socioeconomic status quartile	0.87	0.84	0.94	0.74	0.80
Never cut class	0.86	0.88	0.77	0.92	1.19
Like school a great deal	0.66	0.65	0.63	0.59	0.91
Rate good grades as very important	0.75	0.83	0.71	0.70	1.08
Currently employed	0.69	0.71	0.72	0.75	1.06
Want to participate in college athletics	0.72	0.75	0.75	0.80	1.12
Hope to get an athletic scholarship	0.76	1.66	0.94	1.10	2.39

Students were defined as sports participants if they indicated that they participated in at least one sport at the intramural or interscholastic level. Cheerleading, pom pom, and drill team were not included in this category. Students were defined as sports nonparticipants if they did not participate in *any* sports or they indicated that their school did not offer sports.

2Students were defined as extracurricular participants if they indicated that they participated in at least one

<sup>&</sup>lt;sup>2</sup>Students were defined as extracurricular participants if they indicated that they participated in at least one extracurricular activity other than sports. Cheerleading, pompon (pom pom), and drill team were included in this category.

Table B-16. Standard errors for table 16 estimates (percentage of high school sophomores and high-intensity extracurricular participants, by selected student characteristics): 2002

Selected student characteristics	All sophomore students	High-intensity (top quartile) extracurricular participants <sup>1</sup>
Expect to earn 4-year degree or higher	0.56	0.78
Expect to go directly to college	0.52	0.88
Highest test quartile	0.68	1.18
Highest socioeconomic status quartile	0.73	1.27
Never cut class	0.70	1.14
Like school a great deal	0.45	0.99
Rate good grades as very important	0.53	1.09
Currently employed	0.52	0.95

<sup>&</sup>lt;sup>1</sup>Students were defined as high-intensity extracurricular participants if they spent 9 hours (or more) per week participating in extracurricular activities.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of

<sup>2002 (</sup>ELS:2002).

Table B–17. Standard errors and standard deviations for table 17 estimates (average number of hours per week spent by high school sophomores on various activities outside of school, by selected student and school characteristics): 2002

			A۱	erage numbe	r of hours	per week s	spent on the	following	activities:			
Selected student and school		ol-sponsore curricular a			itional read	•	Doing ho	omework of	outside f school		Working	for pay <sup>1</sup>
characteristics	n	SE	SD	<u>~</u>	SE	SD	n	SE	SD	n	SE	SD
Total	14,555	0.07	5.73	14,670	0.04	3.88	14,903	0.08	5.76	4,578	0.21	10.32
Sex												
Male	7,213	0.09	5.92	7,253	0.06	3.94	7,353	0.09	5.51	2,232	0.30	10.87
Female	7,342	0.09	5.53	7,417	0.06	3.82	7,550	0.10	5.93	2,346	0.25	9.47
Racial/ethnic group												
American Indian or Alaska Native	116	0.45	4.75	119	0.37	3.50	125	0.79	6.77	27	2.29	11.53
Asian or Pacific Islander	1,387	0.20	4.84	1,400	0.14	3.75	1,427	0.30	7.10	266	0.83	8.78
Black	1,821	0.15	5.28	1,844	0.13	4.10	1,908	0.16	5.60	432	0.62	10.85
Hispanic or Latino	2,009	0.14	4.90	2,045	0.11	4.04	2,118	0.16	5.78	464	0.68	11.95
More than one race	708	0.30	5.82	707	0.19	4.21	720	0.27	5.59	226	0.87	10.84
White	8,514	0.09	5.96	8,555	0.05	3.78	8,605	0.10	5.63	3,163	0.23	9.86
Socioeconomic status												
Lowest quartile	3,280	0.11	4.96	3,338	0.08	3.99	3,459	0.11	5.33	915	0.43	10.88
Middle two quartiles	7,060	0.09	5.70	7,105	0.06	3.91	7,180	0.08	5.49	2,370	0.28	10.25
Highest quartile	4,215	0.13	6.02	4,227	0.08	3.73	4,264	0.16	6.32	1,293	0.36	9.36
Parents' education												
High school or less	3,642	0.11	5.12	3,697	0.07	3.75	3,803	0.10	5.20	1,144	0.37	10.68
Some college	4,815	0.10	5.67	4,846	0.07	4.03	4,902	0.10	5.46	1,557	0.33	10.10
College graduation	3,341	0.14	5.97	3,354	0.09	3.96	3,397	0.15	5.97	1,061	0.40	10.10
Graduate/professional degree	2,757	0.17	5.95	2,773	0.10	3.65	2,801	0.19	6.48	816	0.46	9.53
Native language <sup>2</sup>												
English	12,210	0.08	5.81	12,278	0.05	3.84	12,436	0.08	5.65	4,063	0.21	10.20
Non-English	2,345	0.14	4.89	2,392	0.13	4.14	2,467	0.18	6.35	515	0.69	11.24

Appendix B: Standard Error Tables

Table B–17. Standard errors and standard deviations for table 17 estimates (average number of hours per week spent by high school sophomores on various activities outside of school, by selected student and school characteristics): 2002—Continued

			A۱	erage numbe	r of hours	per week s	spent on the	following	activities:			
Selected student and school		ol-sponsore curricular a			itional read		Doing h	omework o	outside f school		Working	for pay <sup>1</sup>
characteristics	n	SE	SD	n	SE	SD	n	SE	SD	n	SE	SD
Student's educational												
expectations High school or less	988	0.14	3.98	996	0.14	3.82	1,042	0.16	4.28	290	0.76	12.14
Some college	1,345	0.14	4.67	1,352	0.12	3.77	1,387	0.14	4.84	465	0.56	10.52
College graduation	5,213	0.11	5.81	5,250	0.06	3.63	5,299	0.11	5.34	1,654	0.32	9.89
Graduate/professional												
degree	5,685	0.11	5.99	5,717	0.07	4.04	5,780	0.11	6.24	1,766	0.29	9.80
Don't know	1,324	0.17	4.95	1,355	0.14	4.19	1,395	0.20	5.79	403	0.60	10.75
High school program <sup>3</sup>												
General	5,100	0.10	5.45	5,154	0.07	3.85	5,231	0.10	5.16	1,654	0.33	10.56
College preparatory	8,075	0.10	5.91	8,116	0.06	3.85	8,241	0.11	6.08	2,477	0.25	9.85
Vocational	1,380	0.16	5.05	1,400	0.12	4.12	1,431	0.17	5.44	447	0.56	10.62
Composite achievement test												
score in sophomore year												
Lowest quartile	3,036	0.10	4.90	3,079	0.09	3.97	3,225	0.10	4.93	881	0.46	11.52
Middle two quartiles	7,474	0.09	5.72	7,538	0.06	3.67	7,610	0.09	5.59	2,370	0.27	10.13
Highest quartile	4,045	0.14	5.95	4,053	0.08	4.15	4,068	0.15	6.24	1,327	0.29	8.80
Sophomore's school sector												
Public	11,329	0.08	5.70	11,431	0.05	3.92	11,634	0.08	5.64	3,559	0.22	10.33
Catholic	1,892	0.19	5.92	1,899	0.09	3.31	1,910	0.23	6.10	643	0.42	9.01
Other private	1,334	0.26	5.41	1,340	0.13	3.65	1,359	0.49	6.95	376	0.78	10.19
Region of sophomore's school												
Northeast	2,620	0.19	5.94	2,635	0.09	3.80	2,690	0.22	5.82	951	0.45	9.71
Midwest	3,727	0.14	5.82	3,746	0.09	3.94	3,788	0.14	5.63	1,440	0.36	9.85
South	5,303	0.11	5.57	5,342	0.07	3.83	5,436	0.10	5.40	1,501	0.35	10.66
West	2,905	0.16	5.64	2,947	0.11	3.95	2,989	0.22	6.23	686	0.58	11.05

Table B-17. Standard errors and standard deviations for table 17 estimates (average number of hours per week spent by high school sophomores on various activities outside of school, by selected student and school characteristics): 2002—Continued

<u>-</u>			Ave	erage numbe	r of hours	per week s	spent on the	following	activities:			
Selected student and school		l-sponsore curricular a			itional read	•	Doing h	omework of	outside f school		Working	for pay <sup>1</sup>
characteristics	n	SE	SD	n	SE	SD	n	SE	SD	n	SE	SD
Urbanicity of sophomore's school												
Urban	4,772	0.12	5.49	4,825	0.08	3.86	4,932	0.14	6.03	1,318	0.44	10.54
Suburban	7,050	0.11	5.82	7,093	0.07	3.86	7,202	0.12	5.76	2,346	0.28	9.98
Rural	2,733	0.16	5.79	2,752	0.09	3.98	2,769	0.17	5.25	914	0.45	10.86

<sup>&</sup>lt;sup>1</sup>This analysis is limited to those students who worked during the 2001–02 school year. Current school year work status information was available for only 84.3 percent of the students. In addition, only 81.7 percent of students who had ever held a job for pay reported the number of hours they worked each week. Readers are cautioned that both these estimates fall below the NCES weighted item response standard of 85 percent. Missing data have not been explicitly accounted for in the data.

NOTE: All race categories exclude Hispanic.

<sup>&</sup>lt;sup>2</sup>The first language students learned to speak when they were children.

<sup>&</sup>lt;sup>3</sup>Students' self-reports of the type of high school program in which they participated.

Table B-18. Standard errors and standard deviations for table 18 estimates (average number of hours per week high school sophomores spent on homework in and out of school, by subject and selected student and school characteristics): 2002—Part I

Selected student and	Number o	of hours s			of hours sp			r of hours s work out o	
school characteristics	n	SE	SD	n	SE	SD	n	SE	SD
Total	14,733	0.11	8.87	14,781	0.07	5.10	14,903	0.08	5.76
Sex									
Male	7,276	0.13	8.44	7,306	0.08	4.90	7,353	0.09	5.51
Female	7,457	0.15	9.20	7,475	0.09	5.27	7,550	0.10	5.93
Racial/ethnic group									
American Indian or Alaska Native Asian or Pacific	123	1.01	9.92	123	0.45	5.00	125	0.79	6.77
Islander	1,410	0.43	9.83	1,415	0.21	5.00	1,427	0.30	7.10
Black	1,875	0.25	8.78	1,884	0.14	4.83	1,908	0.16	5.60
Hispanic or Latino	2,067	0.26	9.50	2,086	0.14	5.33	2,118	0.16	5.78
More than one race	714	0.40	8.71	719	0.23	5.04	720	0.27	5.59
White	8,544	0.14	8.60	8,554	0.09	5.09	8,605	0.10	5.63
Socioeconomic status									
Lowest quartile	3,408	0.20	9.11	3,426	0.12	5.36	3,459	0.11	5.33
Middle two quartiles	7,097	0.13	8.74	7,120	0.08	5.17	7,180	0.08	5.49
Highest quartile	4,228	0.19	8.71	4,235	0.11	4.67	4,264	0.16	6.32
Parents' education									
High school or less	3,755	0.18	8.91	3,771	0.12	5.36	3,803	0.10	5.20
Some college	4,842	0.16	8.88	4,861	0.10	5.30	4,902	0.10	5.46
College graduation Graduate/ professional	3,364	0.20	8.63	3,375	0.11	4.76	3,397	0.15	5.97
degree	2,772	0.24	8.88	2,774	0.12	4.59	2,801	0.19	6.48
Native language <sup>1</sup>									
English	12,318	0.11	8.73	12,346	0.07	5.07	12,436	0.08	5.65
Non-English	2,415	0.27	9.72	2,435	0.14	5.26	2,467	0.18	6.35
Student's educational expectations									
High school or less	1,024	0.28	7.70	1,033	0.18	4.79	1,042	0.16	4.28
Some college	1,368	0.27	8.72	1,375	0.18	5.46	1,387	0.14	4.84
College graduation	5,244	0.16	8.55	5,257	0.10	5.14	5,299	0.11	5.34
Graduate/ professional									
degree	5,735	0.16	8.99 9.27	5,748	0.09 0.17	4.98 5.16	5,780 1,205	0.11 0.20	6.24 5.79
Don't know	1,362	0.32	5.21	1,368	0.17	5.16	1,395	0.20	5.18
High school program <sup>2</sup> General	5,160	0.16	8.60	5 171	0.10	5.23	5,231	0.10	5.16
	5, 160 8,159	0.16	8.94	5,171 8,185	0.10	5.23 4.97	5,231 8,241	0.10	6.08
College preparatory									
Vocational	1,414	0.28	8.93	1,425	0.17	5.19	1,431	0.17	5.44

Table B-18. Standard errors and standard deviations for table 18 estimates (average number of hours per week high school sophomores spent on homework in and out of school, by subject and selected student and school characteristics): 2002—Part I—Continued

Colooted students		per of hour			ber of hou on all home			per of hours	
Selected student a school characterist	1110	SE	SD	n	SE	SD	n	SE	SD
Composite achieve ment test score in sophomore year	<del>)</del> -	0.19			0.12	5.09		0.10	4.93
Lowest quartile Middle two quartiles Highest quartile	3,147 7,544 4,042	0.19 0.14 0.19	8.59 8.97 8.44	3,180 7,555 4,046	0.12 0.09 0.11	5.09 5.21 4.86	3,225 7,610 4,068	0.10 0.09 0.15	5.59 6.24
Sophomore's school sector Public Catholic	11,494 1,898	0.12 0.29	8.84 8.53	11,537 1,899	0.07 0.13	5.14 4.32	11,634 1,910	0.08 0.23	5.64 6.10
Other private Region of sophomore's school	1,341	0.48	9.33	1,345	0.20	4.77	1,359	0.49	6.95
Northeast Midwest	2,648 3,765	0.27 0.20	7.93 9.18	2,660 3,772	0.11 0.13	3.92 5.56	2,690 3,788	0.22 0.14	5.82 5.63
South	5,370	0.15	8.38	5,384	0.10	4.79	5,436	0.10	5.40
West Urbanicity of sophomore's school	2,950	0.31	9.60	2,965	0.16	5.44	2,989	0.22	6.23
Urban Suburban	4,865 7,118	0.20 0.17	9.09 8.79	4,887 7,138	0.11	5.01 5.01	4,932 7,202	0.14	6.03 5.76
Rural	2,750	0.22	8.73	2,756	0.17	5.40	2,769	0.17	5.25

Table B-18. Standard errors and standard deviations for table 18 estimates (average number of hours per week high school sophomores spent on homework in and out of school, by subject and selected student and school characteristics): 2002—Part II

Selected student and school		of hours sp th homewo			of hours somework ir			er of hours nework out	
characteristics	n	SE	SD	n	SE	SD	n	SE	SD
Total	14,619	0.06	5.21	14,729	0.04	3.11	14,835	0.04	3.09
Sex									
Male	7,258	0.08	4.97	7,315	0.05	3.02	7,338	0.05	2.97
Female	7,361	0.09	5.42	7,414	0.05	3.19	7,497	0.06	3.19
Racial/ethnic group American Indian or Alaska									
Native Asian or Pacific	122	0.42	4.06	122	0.20	2.20	126	0.29	2.66
Islander	1,396	0.22	5.61	1,406	0.12	2.99	1,422	0.14	3.49
Black	1,850	0.17	6.34	1,873	0.10	3.67	1,897	0.10	3.62
Hispanic or									
Latino More than one	2,047	0.18	6.50	2,070	0.10	3.78	2,104	0.10	3.73
race	711	0.30	5.60	715	0.17	3.35	717	0.19	3.42
White	8,493	0.07	4.46	8,543	0.04	2.77	8,569	0.04	2.69
Socioeconomic status Lowest quartile	3,367	0.12	6.04	3,407	0.07	3.53	3,436	0.07	3.40
Middle two	3,307	0.12	0.04	3,407	0.07	3.33	3,430	0.07	3.40
quartiles	7,046	0.09	5.26	7,096	0.05	3.19	7,159	0.05	3.08
Highest quartile	4,206	0.09	4.19	4,226	0.05	2.44	4,240	0.06	2.76
Parents' education High school or less	3,721	0.10	5.43	3,757	0.06	3.27	3,788	0.06	3.06
Some college	4,811	0.11	5.58	4,851	0.06	3.30	4,884	0.06	3.26
College graduation	3,336	0.11	4.83	3,355	0.07	2.88	3,376	0.07	3.00
Graduate/pro- fessional									
degree Native language <sup>1</sup>	2,751	0.10	4.48	2,766	0.06	2.65	2,787	0.06	2.85
English	12,216	0.07	4.93	12,304	0.04	2.97	12,371	0.04	2.97
Non-English	2,403	0.19	6.69	2,425	0.11	3.89	2,464	0.10	3.73
Student's educational expectations High school									
or less	1,011	0.21	5.93	1,031	0.12	3.40	1,029	0.13	3.57
Some college	1,362	0.19	5.70	1,375	0.11	3.52	1,390	0.11	3.14
College									
graduation	5,209	0.10	5.28	5,245	0.06	3.21	5,277	0.06	3.02
Graduate/ professional									
degree	5,689	0.09	4.91	5,719	0.05	2.80	5,767	0.06	3.06
Don't know	1,348	0.15	4.77	1,359	0.10	3.11	1,372	0.09	2.81

Table B-18. Standard errors and standard deviations for table 18 estimates (average number of hours per week high school sophomores spent on homework in and out of school, by subject and selected student and school characteristics): 2002—Part II—Continued

Selected student	Number of math	hours sp		Number o			Number math home	of hours s work out o	
characteristics	n	SE	SD	n	SE	SD	n	SE	SD
High school program <sup>2</sup>									_
General	5,118	0.09	5.25	5,160	0.06	3.20	5,200	0.06	3.05
College preparatory	8,098	0.08	5.05	8,147	0.04	2.99	8,209	0.05	3.04
Vocational	1,403	0.20	5.80	1,422	0.12	3.31	1,426	0.11	3.39
Composite achieve- ment test score in sophomore year Lowest quartile	3,128	0.15	6.84	3,178	0.09	4.13	3,211	0.08	3.73
Middle two	0,0	00	0.0.	3,	0.00		3,2	0.00	
quartiles	7,485	0.08	4.90	7,533	0.04	2.86	7,573	0.05	2.97
Highest quartile	4,006	0.09	3.95	4,018	0.05	2.39	4,051	0.06	2.63
Sophomore's school sector									
Public	11,415	0.07	5.29	11,506	0.04	3.16	11,594	0.04	3.11
Catholic	1,881	0.14	4.21	1,888	0.07	2.28	1,900	0.10	2.83
Other private	1,323	0.16	4.20	1,335	0.10	2.42	1,341	0.12	2.78
Region of sophomore's school									
Northeast	2,603	0.15	4.78	2,633	80.0	2.75	2,670	0.09	2.89
Midwest	3,746	0.10	4.88	3,770	0.07	3.10	3,772	0.07	2.94
South	5,330	0.10	5.22	5,368	0.06	3.08	5,402	0.05	3.06
West	2,940	0.17	5.75	2,958	0.09	3.34	2,991	0.10	3.40
Urbanicity of sophomore's school									
Urban	4,813	0.12	5.52	4,851	0.07	3.34	4,902	0.07	3.26
Suburban	7,072	0.09	5.12	7,121	0.05	2.98	7,168	0.05	3.08
Rural	2,734	0.12	4.95	2,757	0.08	3.07	2,765	0.08	2.81

Table B-18. Standard errors and standard deviations for table 18 estimates (average number of hours per week high school sophomores spent on homework in and out of school, by subject and selected student and school characteristics): 2002—Part III

Selected student and school		er of hours			r of hours s nglish home		Number of hours spent on English homework out of school			
characteristics	n	SE	SD	n	SE	SD	n	SE	SD	
Total	14,614	0.06	4.97	14,698	0.03	2.89	14,853	0.04	2.99	
Sex										
Male	7,243	0.07	4.76	7,289	0.04	2.78	7,342	0.05	2.88	
Female	7,371	0.08	5.16	7,409	0.05	2.99	7,511	0.05	3.08	
Racial/ethnic group American Indian or Alaska										
Native	120	0.49	5.22	120	0.28	2.92	126	0.29	3.18	
Asian or Pacific										
Islander	1,387	0.27	6.04	1,393	0.16	3.28	1,422	0.15	3.64	
Black	1,865	0.15	5.78	1,882	0.08	3.22	1,901	0.09	3.41	
Hispanic or Latino	2,045	0.18	6.20	2,066	0.09	3.49	2,110	0.10	3.62	
More than one race		0.04	4.00	710	0.40	0.07	704	0.40	0.00	
White	714 8,483	0.21 0.07	4.86 4.28	716 8,521	0.13 0.04	2.87 2.60	721 8,573	0.12 0.04	2.88 2.61	
Socioeconomic status	0,400	0.07	4.20	0,321	0.04	2.00	0,373	0.04	2.01	
Lowest quartile Middle two	3,373	0.11	5.64	3,407	0.07	3.32	3,443	0.06	3.17	
quartiles Highest	7,053	0.08	4.98	7,090	0.05	2.89	7,171	0.05	2.99	
quartile	4,188	0.09	4.22	4,201	0.05	2.38	4,239	0.06	2.76	
Parents' education High school or										
less	3,723	0.10	5.29	3,758	0.06	3.16	3,791	0.06	2.99	
Some college College	4,824	0.10	5.15	4,853	0.05	2.97	4,896	0.06	3.08	
graduation	3,327	0.11	4.53	3,339	0.06	2.60	3,378	0.07	2.90	
Graduate/pro- fessional										
degree	2,740	0.12	4.59	2,748	0.07	2.61	2,788	0.07	2.86	
Native language <sup>1</sup>										
English	12,223	0.06	4.73	12,285	0.04	2.78	12,389	0.04	2.87	
Non-English	2,391	0.19	6.26	2,413	0.10	3.51	2,464	0.11	3.60	

Table B-18. Standard errors and standard deviations for table 18 estimates (average number of hours per week high school sophomores spent on homework in and out of school, by subject and selected student and school characteristics): 2002—Part III—
Continued

Selected student		er of hour nglish hor	nework		of hours s glish home	ework in		of hours s h homewo	k out of
and school		<u> </u>	total		<u> </u>	school		<u> </u>	school
characteristics	n	SE	SD	n	SE	SD	n	SE	SD
Student's educational expectations High school									
or less	1,018	0.19	5.35	1,033	0.11	3.21	1,038	0.10	3.00
Some college	1,362	0.18	5.43	1,375	0.10	3.14	1,381	0.10	3.03
College									
graduation Graduate/ professional	5,207	0.10	5.00	5,231	0.06	2.97	5,288	0.06	2.90
degree	5,680	0.08	4.77	5,699	0.04	2.69	5,772	0.05	3.04
Don't know	1,347	0.15	4.68	1,360	0.09	2.76	1,374	0.09	2.89
High school program <sup>2</sup>	·								
General	5,123	0.09	4.91	5,156	0.06	2.98	5,203	0.05	2.85
College	0.000	0.07	4.00	0.440	0.04	0.70	0.047	0.05	0.00
preparatory Vocational	8,082 1.409	0.07 0.18	4.88 5.59	8,119 1,423	0.04 0.10	2.76 3.16	8,217 1,433	0.05 0.11	3.02 3.24
Composite achievement test score in sophomore year Lowest quartile	3,141	0.14	6.40	3,179	0.08	3.79	3,224	0.08	3.52
Middle two									
quartiles Highest	7,477	0.07	4.71	7,515	0.04	2.72	7,578	0.05	2.86
quartile	3,996	0.08	3.83	4,004	0.04	2.12	4,051	0.06	2.66
Sophomore's school sector									
Public	11,423	0.06	5.02	11,489	0.04	2.93	11,613	0.04	2.99
Catholic	1,883	0.16	4.25	1,886	0.07	2.23	1,903	0.11	2.79
Other private	1,308	0.17	4.53	1,323	0.09	2.47	1,337	0.14	2.97
Region of sophomore's school									
Northeast	2,597	0.16	4.57	2,616	0.08	2.48	2,676	0.10	2.82
Midwest	3,745	0.11	4.87	3,764	0.07	2.97	3,775	0.07	2.85
South	5,329	0.08	4.91	5,363	0.05	2.84	5,407	0.05	2.96
West	2,943	0.14	5.37	2,955	0.08	3.10	2,995	0.09	3.25

Table B-18. Standard errors and standard deviations for table 18 estimates (average number of hours per week high school sophomores spent on homework in and out of school, by subject and selected student and school characteristics): 2002—Part III—
Continued

Selected student		ber of hour English hor		Number English ho	of hours sp mework in		Number of hours spent on English homework out of school			
characteristics	n	SE	SD	n	SE	SD	n	SE	SD	
Urbanicity of sophomore's school Urban	4,805	0.11	5.47	4,835	0.06	3.12	4,904	0.07	3.24	
Suburban	7,083	0.08	4.78	7,119	0.05	2.76	7,183	0.05	2.91	
Rural	2,726	0.12	4.63	2,744	0.07	2.88	2,766	0.08	2.73	

<sup>&</sup>lt;sup>1</sup>The first language students learned to speak when they were children.

NOTE: All race categories exclude Hispanic.

<sup>&</sup>lt;sup>2</sup>Students' self-reports of the type of high school program in which they participated.

Table B–19a. Standard errors for table 19a estimates (percentage of high school sophomores who reported that computers were available at home or at school according to frequency of using computers at those locations, by selected student and school characteristics): 2002

		Percent w	ho used c at home <sup>1</sup>	omputer		Percent w	ho used co school <sup>2</sup>	mputer at
Selected student and school characteristics	Computer available at home	Never	Less than once a week	At least once or twice a week	Computer available at school	Never	Less than once a week	At least once or twice a week
Total	0.42	0.23	0.42	0.50	0.15	0.73	0.61	0.72
Sex								
Male	0.52	0.34	0.53	0.66	0.25	0.88	0.79	0.86
Female	0.55	0.27	0.57	0.60	0.18	0.84	0.79	0.91
Racial/ethnic group								
American Indian or Alaska Native	3.47	2.81	3.91	4.42	2.49	5.84	5.11	5.46
Asian or Pacific Islander	0.94	0.80	1.04	1.08	0.48	1.89	1.90	1.76
Black	1.23	0.82	1.12	1.37	0.49	1.57	1.28	1.49
Hispanic or Latino	1.24	0.86	1.26	1.47	0.52	1.55	1.32	1.34
More than one race	1.41	1.32	1.69	2.00	0.71	2.25	2.26	2.33
White	0.35	0.23	0.46	0.49	0.15	0.86	0.78	0.95
Socioeconomic status								
Lowest quartile	0.90	0.64	0.95	1.11	0.35	1.03	1.01	1.12
Middle two quartiles	0.46	0.30	0.55	0.59	0.19	0.93	0.80	0.87
Highest quartile	0.31	0.27	0.55	0.65	0.23	1.08	1.15	1.24
Parents' education								
High school or less	0.83	0.59	0.87	1.01	0.31	1.05	1.09	1.06
Some college	0.52	0.36	0.66	0.72	0.24	0.99	0.91	0.97
College graduation	0.48	0.41	0.74	0.87	0.25	1.09	1.10	1.19
Graduate/professional degree	0.51	0.34	0.75	0.82	0.31	1.32	1.36	1.39
Native language <sup>3</sup>								
English	0.38	0.24	0.44	0.50	0.15	0.77	0.66	0.79
Non-English	1.38	0.74	1.17	1.33	0.56	1.49	1.40	1.38
Educational expectations								
High school or less	1.59	1.42	1.76	2.04	0.77	1.82	1.85	1.64
Some college	1.21	1.01	1.21	1.46	0.47	1.71	1.46	1.73
College graduation	0.61	0.35	0.62	0.72	0.22	0.96	0.93	0.93
Graduate/professional degree	0.46	0.25	0.60	0.66	0.22	0.86	0.93	0.99
Do not know	1.10	0.92	1.20	1.44	0.52	1.66	1.68	1.53
High school program⁴								
General	0.62	0.40	0.65	0.78	0.25	1.08	0.97	0.99
College preparatory	0.48	0.26	0.50	0.54	0.18	0.82	0.76	0.84
Vocational	1.10	0.97	1.28	1.54	0.54	1.44	1.51	1.59

Table B-19a. Standard errors for table 19a estimates (percentage of high school sophomores who reported that computers were available at home or at school according to frequency of using computers at those locations, by selected student and school characteristics): 2002—Continued

		Percent w	ho used c at home¹	omputer		Percent who used computer at school <sup>2</sup>			
Selected student and school characteristics	Computer available at home	Never	Less than once a week	At least once or twice a week	Computer available at school	Never	Less than once a week	At least once or twice a week	
Composite achievement test score in sophomore year									
Lowest quartile	0.92	0.68	0.92	1.13	0.46	1.30	1.06	1.10	
Middle two quartiles	0.50	0.29	0.48	0.55	0.17	0.87	0.82	0.88	
Highest quartile	0.34	0.22	0.58	0.64	0.17	0.95	1.14	1.28	
Sophomore's school sector									
Public	0.45	0.24	0.45	0.53	0.16	0.77	0.65	0.75	
Catholic	0.34	0.27	0.78	0.92	0.45	2.54	1.93	2.56	
Other private	1.08	1.51	1.19	2.08	0.95	3.61	2.94	4.71	
Region of sophomore's school									
Northeast	0.72	0.36	0.80	0.93	0.38	1.92	1.52	1.68	
Midwest	0.91	0.46	0.85	1.01	0.21	1.38	1.16	1.58	
South	0.65	0.40	0.65	0.76	0.25	1.18	1.06	1.12	
West	1.02	0.58	1.07	1.28	0.41	1.60	1.31	1.55	
Urbanicity of sophomore's school									
Urban	0.89	0.45	0.87	1.10	0.36	1.49	1.11	1.28	
Suburban	0.57	0.34	0.57	0.67	0.19	0.94	0.78	0.98	
Rural	0.74	0.37	0.84	0.88	0.25	1.71	1.68	1.83	

<sup>&</sup>lt;sup>1</sup>Percent of sophomores who have a computer available at home.

<sup>&</sup>lt;sup>2</sup>Percent of sophomores who have a computer available at school. <sup>3</sup>The first language students learned to speak when they were children.

<sup>&</sup>lt;sup>4</sup>Students' self-reports of the type of high school program in which they participated.

NOTE: All race categories exclude Hispanic.

Table B–19b. Standard errors for table 19b estimates (percentage of high school sophomores who reported that computers were available at a public library or friend's house according to frequency of using computers at those locations, by selected student and school characteristics): 2002

		Percent w at p	ho used c ublic librar			Percent who used computer at friend's house <sup>2</sup>			
Selected student and school characteristics	Computer available at public library <sup>3</sup>	Never	Less than once a week	At least once or twice a week	Computer available at friend's house	Never	Less than once a week	At leas once o twice a weel	
Total	0.23	0.54	0.46	0.25	0.21	0.63	0.55	0.5	
Sex									
Male	0.35	0.71	0.59	0.36	0.30	0.82	0.71	0.69	
Female	0.28	0.75	0.69	0.35	0.27	0.81	0.77	0.6	
Racial/ethnic group									
American Indian or Alaska Native	3.25	6.49	3.83	4.32	1.66	5.95	5.49	5.4	
Asian or Pacific Islander	0.53	1.74	1.66	0.79	0.51	2.00	1.97	1.50	
Black	0.53	1.42	1.14	0.84	0.63	1.39	1.19	1.1	
Hispanic or Latino	0.71	1.54	1.29	0.80	0.71	1.38	1.37	1.0	
More than one race	0.88	2.39	2.16	1.42	0.89	2.41	2.31	2.1	
White	0.29	0.63	0.60	0.26	0.22	0.74	0.66	0.6	
Socioeconomic status									
Lowest quartile	0.51	1.08	0.93	0.59	0.51	1.11	1.03	0.8	
Middle two quartiles	0.31	0.68	0.61	0.33	0.28	0.79	0.71	0.6	
Highest quartile	0.33	0.86	0.80	0.40	0.21	1.03	0.94	0.9	
Parents' education									
High school or less	0.47	0.99	0.83	0.53	0.44	1.10	1.09	0.8	
Some college	0.36	0.78	0.68	0.38	0.34	0.94	0.84	0.7	
College graduation	0.42	1.03	0.96	0.50	0.32	1.17	1.14	0.9	
Graduate/professional degree	0.42	1.09	1.04	0.47	0.41	1.24	1.17	1.1	
Native language⁴									
English	0.25	0.57	0.50	0.26	0.22	0.65	0.57	0.5	
Non-English	0.61	1.45	1.34	0.88	0.69	1.43	1.26	1.1	
Educational expectations									
High school or less	1.03	1.76	1.47	0.98	1.03	1.93	1.69	1.4	
Some college	0.84	1.53	1.34	0.75	0.59	1.63	1.70	1.3	
College graduation	0.36	0.81	0.69	0.43	0.30	0.95	0.89	0.8	
Graduate/professional degree	0.30	0.78	0.73	0.37	0.27	0.93	0.90	0.8	
Do not know	0.71	1.39	1.22	0.66	0.66	1.62	1.51	1.1	
High school program⁵									
General	0.39	0.77	0.66	0.40	0.36	0.93	0.86	0.7	
College preparatory	0.27	0.71	0.64	0.33	0.24	0.77	0.71	0.6	
Vocational	0.72	1.54	1.48	0.78	0.62	1.58	1.62	1.2	

Table B-19b. Standard errors for table 19b estimates (percentage of high school sophomores who reported that computers were available at a public library or friend's house according to frequency of using computers at those locations, by selected student and school characteristics): 2002—Continued

		Percent w at p	ho used c ublic librar	y <sup>1</sup> .	i	Percent who used computer at friend's house <sup>2</sup>		
	Computer		Less	At least once	Computer		Less	At least
Selected student and school characteristics	available at public library <sup>3</sup>	Never	than once a week	or twice a week	available at friend's house	Never	than once a week	once or twice a week
Composite achievement test score in sophomore year	,							
Lowest quartile	0.62	1.13	0.89	0.67	0.60	1.09	1.01	0.88
Middle two quartiles	0.30	0.72	0.66	0.33	0.24	0.81	0.71	0.70
Highest quartile	0.27	0.93	0.88	0.36	0.19	1.04	0.91	0.83
Sophomore's school sector								
Public	0.25	0.58	0.49	0.27	0.23	0.67	0.58	0.54
Catholic	0.50	1.55	1.45	0.40	0.29	1.24	1.19	1.07
Other private	0.74	1.66	1.32	0.88	0.61	2.40	2.05	1.87
Region of sophomore's school								
Northeast	0.59	1.33	1.17	0.56	0.40	1.61	1.54	1.59
Midwest	0.45	1.13	0.94	0.53	0.44	1.26	1.05	0.91
South	0.35	0.84	0.70	0.35	0.33	0.93	0.81	0.69
West	0.54	1.22	1.02	0.61	0.52	1.33	1.16	1.04
Urbanicity of sophomore's school								
Urban	0.44	1.00	0.78	0.54	0.48	1.17	1.01	0.99
Suburban	0.32	0.75	0.66	0.32	0.26	0.85	0.75	0.71
Rural	0.54	1.18	1.05	0.51	0.43	1.51	1.25	1.03

Percent of sophomores who have a computer available at a public library. Percent of sophomores who have a computer available at a friend's house. For activities other than catalog searches.

<sup>&</sup>lt;sup>4</sup>The first language students learned to speak when they were children. <sup>5</sup>Students' self-reports of the type of high school program in which they participated.

NOTE: All race categories exclude Hispanic.

Table B–20. Standard errors and standard deviations for table 20 estimates (average number of hours per day high school sophomores used a computer for school or nonschoolwork and percentage who reported using a computer at least once or twice per week for various purposes, by selected student and school characteristics): 2002

				nber of hou			comp	rcentage uuter at leas	st once or
Selected student and		noolwork			nschoolw		F	School- work or assign-	Learning things of interest to me on
school characteristics	n	SE	SD	n	SE	SD	Fun	ments	my own
Total	14,066	0.02	1.20	14,101	0.02	1.74	0.58	0.75	0.57
Sex									
Male	6,931	0.02	1.22	6,950	0.03	1.82	0.73	0.93	0.78
Female	7,135	0.02	1.17	7,151	0.02	1.64	0.75	0.87	0.71
Racial/ethnic group American Indian or Alaska Native	110	0.12	1.12	113	0.24	1.74	3.56	4.45	4.47
Asian or Pacific Islander	1,335	0.05	1.31	1,340	0.07	1.77	1.48	1.84	1.73
Black	1,752	0.04	1.33	1,761	0.06	1.83	1.22	1.42	1.41
Hispanic or Latino	1,979	0.04	1.24	1,984	0.04	1.76	1.69	1.50	1.24
More than one race	696	0.06	1.24	699	0.10	1.91	2.19	2.35	2.22
White	8,194	0.02	1.13	8,204	0.02	1.69	0.56	0.93	0.70
Socioeconomic status									
Lowest quartile	3,186	0.03	1.24	3,207	0.04	1.80	1.08	1.15	1.03
Middle two quartiles	6,855	0.02	1.18	6,861	0.03	1.75	0.68	0.84	0.75
Highest quartile	4,025	0.03	1.20	4,033	0.03	1.64	0.86	1.31	0.97
Parents' education									
High school or less	3,554	0.03	1.22	3,566	0.04	1.79	1.08	1.05	0.96
Some college	4,641	0.02	1.19	4,658	0.03	1.74	0.76	0.99	0.90
College graduation	3,241	0.03	1.18	3,239	0.04	1.71	0.95	1.21	1.12
Graduate/professional									
degree	2,630	0.03	1.19	2,638	0.05	1.66	1.03	1.57	1.24
Native language <sup>1</sup>									
English	11,753	0.02	1.18	11,777	0.02	1.73	0.56	0.78	0.60
Non-English	2,313	0.03	1.26	2,324	0.05	1.80	1.47	1.57	1.38
Student's educational expectations									
High school or less	942	0.05	1.18	942	0.07	1.84	1.97	1.36	1.58
Some college	1,306	0.04	1.13	1,310	0.06	1.82	1.52	1.68	1.66
College graduation	4,988	0.02	1.22	5,014	0.03	1.73	0.81	0.98	0.95
Graduate/professional degree	5,488	0.02	1.18	5,491	0.03	1.69	0.73	1.00	0.90
Don't know	1,342	0.04	1.20	1,344	0.06	1.74	1.45	1.65	1.54

Table B-20. Standard errors and standard deviations for table 20 estimates (average number of hours per day high school sophomores used a computer for school or nonschoolwork and percentage who reported using a computer at least once or twice per week for various purposes, by selected student and school characteristics): 2002—Continued

				nber of hou			Percentage using a computer at least once or twice per week for			
Selected student and	Sch	noolwork		No	nschoolv	vork		School- work or assign-	Learning things of interest to me on	
school characteristics	n	SE	SD	n	SE	SD	Fun	ments	my own	
High school program <sup>2</sup>										
General	4,926	0.02	1.15	4,940	0.03	1.77	0.89	1.08	0.80	
College preparatory	7,776	0.02	1.21	7,798	0.03	1.68	0.66	0.91	0.73	
Vocational	1,364	0.04	1.28	1,363	0.06	1.88	1.46	1.65	1.67	
Composite achievement test score in sophomore year										
Lowest quartile	3,053	0.03	1.29	3,077	0.04	1.84	1.06	1.10	1.12	
Middle two quartiles	7,121	0.02	1.19	7,133	0.03	1.75	0.63	0.87	0.73	
Highest quartile	3,892	0.02	1.11	3,891	0.04	1.59	0.83	1.25	1.08	
Sophomore's school sector										
Public	10,979	0.02	1.20	11,012	0.02	1.74	0.62	0.79	0.60	
Catholic	1,819	0.05	1.12	1,821	0.04	1.60	1.05	2.14	1.97	
Other private	1,268	0.06	1.21	1,268	0.07	1.69	2.60	3.78	2.22	
Region of sophomore's school										
Northeast	2,540	0.03	1.24	2,560	0.05	1.79	0.96	1.83	1.27	
Midwest	3,585	0.03	1.15	3,599	0.04	1.72	1.12	1.47	1.04	
South	5,129	0.03	1.21	5,138	0.03	1.73	0.83	1.10	0.89	
West	2,812	0.04	1.18	2,804	0.05	1.69	1.61	1.81	1.41	
Urbanicity of sophomore's school										
Urban	4,587	0.03	1.29	4,597	0.04	1.76	1.15	1.40	1.22	
Suburban	6,846	0.02	1.17	6,868	0.03	1.73	0.85	1.07	0.73	
Rural	2,633	0.03	1.10	2,636	0.04	1.71	0.95	1.59	1.14	

<sup>&</sup>lt;sup>1</sup>The first language students learned to speak when they were children. <sup>2</sup>Students' self-reports of the type of high school program in which they participated.

Table B–21. Standard errors and standard deviations for table 21 estimates (percentage of high school sophomores demonstrating proficiency in specific reading knowledge and skills, by student, family, and school characteristics): 2002

Selected student, family, and	Sample	Level	1 <sup>1</sup>	Leve	el 2 <sup>2</sup>	Level 3	3
school characteristics	(n)	SE	SD	SE	SD	SE	SD
Total	15,362	0.39	25.57	0.70	39.65	0.28	21.08
Sex							
Male	7,646	0.48	27.60	0.78	39.94	0.32	20.92
Female	7,716	0.44	23.18	0.85	39.25	0.37	21.25
Racial/ethnic group							
American Indian or Alaska							
Native	131	2.46	28.44	3.36	34.47	0.30	3.25
Asian or Pacific Islander	1,465	0.95	23.25	1.98	39.75	1.07	23.10
Black	2,033	0.89	31.40	1.08	32.01	0.22	9.42
Hispanic or Latino	2,234	1.12	33.78	1.18	35.29	0.30	11.60
More than one race	742	1.16	23.80	1.93	38.83	0.88	20.09
White	8,757	0.31	19.90	0.71	38.74	0.38	24.21
Socioeconomic status							
Lowest quartile	3,635	0.77	32.23	0.84	33.80	0.23	11.07
Middle two quartiles	7,388	0.39	24.52	0.68	38.56	0.25	17.69
Highest quartile	4,339	0.38	15.86	0.88	35.98	0.71	29.95
Parents' education							
High school or less	3,977	0.70	30.46	0.80	35.53	0.24	11.91
Some college	5,049	0.46	25.10	0.83	38.70	0.28	17.20
College graduation	3,484	0.53	22.25	0.96	38.96	0.57	24.37
Graduate/professional degree	2,852	0.56	18.95	1.17	37.62	0.84	30.38
Student's educational expectations							
High school or less	1,127	1.37	37.69	0.98	26.75	0.20	5.70
Some college	1,453	0.94	31.01	1.07	33.09	0.29	9.55
College graduation	5,455	0.47	22.69	0.85	38.74	0.36	19.62
Graduate/professional degree	5,866	0.34	17.59	0.85	37.60	0.48	26.08
Don't know	1,461	0.99	30.21	1.22	37.71	0.59	17.95
Native language⁴							
English	12,766	0.33	22.92	0.68	39.46	0.29	21.87
Non-English	2,596	1.13	35.49	1.18	35.55	0.41	14.65
Family composition							
Mother and father	9,131	0.40	22.69	0.77	39.68	0.38	23.72
Mother or father and guardian	2,375	0.71	28.05	1.10	38.48	0.49	17.60
Single parent (mother or father)	3,209	0.69	28.36	0.97	38.40	0.32	16.15
Other <sup>5</sup>	647	1.67	31.72	1.67	35.08	0.66	13.54
High school program <sup>6</sup>							
General	5,419	0.55	27.70	0.83	37.95	0.28	15.26
College preparatory	8,439	0.41	22.01	0.79	39.38	0.43	25.35
Vocational	1,504	0.96	30.70	1.39	35.12	0.39	11.19

Table B-21. Standard errors and standard deviations for table 21 estimates (percentage of high school sophomores demonstrating proficiency in specific reading knowledge and skills, by student, family, and school characteristics): 2002-Continued

Selected student, family, and	Sample_	Level	1 <sup>1</sup>	Leve	l 2 <sup>2</sup>	Level	3 <sup>3</sup>
school characteristics	(n)	SE	SD	SE	SD	SE	SD
Sophomore's school sector							
Public	12,039	0.42	26.16	0.74	39.45	0.29	20.16
Catholic	1,920	0.53	11.75	1.70	34.60	1.17	27.48
Other private	1,403	1.14	18.96	2.69	37.69	1.63	30.40
Region of sophomore's school							
Northeast	2,763	0.77	22.98	1.56	39.50	0.72	23.20
Midwest	3,879	0.76	24.04	1.44	39.68	0.55	21.90
South	5,640	0.56	25.73	0.99	39.33	0.39	20.19
West	3,080	1.04	28.46	1.70	39.46	0.66	19.52
Urbanicity of sophomore's school							
Urban	5,115	0.86	28.04	1.46	39.54	0.58	21.26
Suburban	7,399	0.52	24.58	0.93	39.69	0.39	21.11
Rural	2,848	0.64	23.75	1.34	39.23	0.46	20.73

<sup>&</sup>lt;sup>1</sup>Simple reading comprehension, including reproduction of detail and/or author's main thought.

<sup>&</sup>lt;sup>2</sup>Ability to make relatively simple inferences beyond the author's main thought and/or understand and evaluate abstract concepts.

Ability to make complex inferences or evaluative judgments that require piecing together multiple sources of

information from the passage.

<sup>&</sup>lt;sup>4</sup>The first language students learned to speak when they were children.

<sup>&</sup>lt;sup>5</sup>Other includes two guardians, female guardian only, male guardian only, and guardian who lives with the student less than half of the time.

<sup>&</sup>lt;sup>6</sup>Students' self-report of the type of high school program in which they were enrolled.

Table B–22. Standard errors and standard deviations for table 22 estimates (percentage of high school sophomores demonstrating proficiency in specific mathematics knowledge and skills, by student, family, and school characteristics): 2002

		Level 1	1	Leve	I 2 <sup>2</sup>	Leve	el 3 <sup>3</sup>	Level	4 <sup>4</sup>	Leve	el 5 <sup>5</sup>
Selected student, family,	Sample										
and school characteristics	(n)	SE	SD	SE	SD	SE	SD	SE	SD	SE	SD
Total	15,362	0.30	19.46	0.77	41.57	0.81	45.82	0.54	32.82	0.08	6.62
Sex											
Male	7,646	0.35	19.69	0.84	41.21	0.92	46.02	0.63	34.24	0.13	8.17
Female	7,716	0.35	19.21	0.89	41.90	0.92	45.55	0.63	31.18	0.07	4.49
Racial/ethnic group											
American Indian or											
Alaska Native	131	1.91	18.56	5.28	42.57	4.65	40.15	1.36	13.85	0.11	1.94
Asian or Pacific Islander	1,465	0.56	14.64	1.69	36.74	2.19	44.92	2.07	39.52	0.69	15.06
Black	2,033	0.81	25.17	1.52	42.53	1.22	35.16	0.48	15.31	0.06	2.33
Hispanic or Latino	2,234	0.73	26.05	1.47	43.88	1.31	39.64	0.70	22.42	0.07	3.25
More than one race	742	1.01	21.73	2.07	41.47	2.17	44.74	1.31	29.34	0.33	5.91
White	8,757	0.20	14.02	0.64	36.09	0.79	44.98	0.64	35.69	0.10	7.03
Socioeconomic status											
Lowest quartile	3,635	0.56	25.11	1.15	43.75	0.96	39.23	0.45	20.33	0.05	2.58
Middle two quartiles	7,388	0.33	18.20	0.75	40.68	0.81	45.23	0.52	30.26	0.06	4.32
Highest quartile	4,339	0.26	11.84	0.73	29.94	1.02	41.35	0.95	39.33	0.23	11.29
Parents' education											
High school or less	3,977	0.48	22.90	1.02	43.64	0.95	41.38	0.54	23.11	0.05	2.69
Some college	5,049	0.37	19.36	0.88	41.52	0.93	44.94	0.56	29.34	0.06	3.76
College graduation	3,484	0.37	16.28	0.91	37.47	1.13	45.43	0.86	36.02	0.17	7.42
Graduate/professional degree	2,852	0.46	15.41	1.09	33.64	1.32	42.72	1.20	39.68	0.31	12.25

Appendix B Standard Error Tables

Table B–22. Standard errors and standard deviations for table 22 estimates (percentage of high school sophomores demonstrating proficiency in specific mathematics knowledge and skills, by student, family, and school characteristics): 2002—Continued

		Level 1	1	Leve	l 2 <sup>2</sup>	Leve	el 3 <sup>3</sup>	Level	4 <sup>4</sup>	Level 5	5 <sup>5</sup>
Selected student, family, and school characteristics	Sample (n)	SE	SD	SE	SD	SE	SD	SE	SD	SE	SD
Student's educational											
expectations											
High school or less	1,127	1.05	28.62	1.42	40.27	1.13	29.86	0.43	12.67	0.02	1.34
Some college	1,453	0.85	25.16	1.48	42.88	1.33	38.02	0.61	18.19	0.02	0.86
College graduation	5,455	0.33	16.55	0.89	39.79	1.00	45.48	0.66	31.36	0.07	4.48
Graduate/profes-											
sional degree	5,866	0.30	13.65	0.81	34.43	1.00	44.09	0.82	37.61	0.17	9.64
Don't know	1,461	0.72	22.92	1.46	43.99	1.44	42.75	0.95	27.65	0.16	5.22
Native language <sup>6</sup>											
English	12,766	0.26	17.71	0.71	40.37	0.79	45.81	0.55	33.36	0.08	6.43
Non-English	2,596	0.81	26.53	1.62	44.53	1.44	42.36	0.91	27.99	0.19	7.68
High school program <sup>7</sup>											
General	5,419	0.41	21.40	0.99	43.06	0.97	43.76	0.56	27.40	0.06	3.91
College preparatory	8,439	0.30	16.56	0.75	37.42	0.91	45.34	0.73	36.31	0.13	8.47
Vocational	1,504	0.76	22.76	1.77	44.02	1.64	41.79	0.87	24.42	0.11	3.42
Family composition											
Mother and father	9,131	0.30	16.99	0.76	38.81	0.88	45.75	0.65	35.40	0.11	7.49
Mother or father and	•										
guardian	2,375	0.50	20.72	1.20	42.17	1.32	44.53	0.81	28.47	0.12	4.86
Single parent (mother	,					-			-		
or father)	3,209	0.58	21.94	1.18	43.98	1.14	44.10	0.67	28.35	0.12	5.22
Other <sup>8</sup>	647	1.23	26.02	2.16	43.88	1.93	40.95	0.97	20.47	0.41	6.56

Table B–22. Standard errors and standard deviations for table 22 estimates (percentage of high school sophomores demonstrating proficiency in specific mathematics knowledge and skills, by student, family, and school characteristics): 2002—Continued

		Level 1	1	Leve	l 2 <sup>2</sup>	Leve	el 3 <sup>3</sup>	Level	4 <sup>4</sup>	Level	<b>5</b> <sup>5</sup>
Selected student, family, and school characteristics	Sample (n)	SE	SD	SE	SD	SE	SD	SE	SD	SE	SD
Sophomore's school											
sector											
Public	12,039	0.32	19.91	0.82	42.00	0.86	45.65	0.57	32.15	0.08	6.36
Catholic	1,920	0.36	8.84	1.22	28.86	1.74	41.56	1.66	36.70	0.23	7.50
Other private	1,403	0.83	13.97	1.93	32.92	2.76	43.12	2.43	38.78	0.49	10.90
Region of sophomore's school											
Northeast	2,763	0.69	18.07	1.73	39.77	1.99	45.92	1.38	34.69	0.20	6.64
Midwest	3,879	0.59	18.06	1.56	41.12	1.62	45.84	1.05	33.64	0.12	5.83
South	5,640	0.44	19.78	1.13	41.81	1.17	45.47	0.74	31.20	0.12	6.52
West	3,080	0.74	21.27	1.81	42.56	1.82	45.45	1.28	32.32	0.20	7.47
Urbanicity of sophomore's school											
Urban	5,115	0.67	22.14	1.65	43.31	1.71	45.26	1.03	31.26	0.13	6.69
Suburban	7,399	0.39	18.39	0.98	40.87	1.05	45.89	0.76	33.50	0.12	6.84
Rural	2,848	0.47	17.23	1.41	39.55	1.53	45.60	1.07	33.09	0.13	5.90

<sup>&</sup>lt;sup>1</sup>Math level 1: Simple arithmetical operations on whole numbers: essentially, single-step operations that rely on rote memory.

<sup>&</sup>lt;sup>2</sup>Math level 2: Simple operations with decimals, fractions, powers, and roots.

<sup>&</sup>lt;sup>3</sup>Math level 3: Simple problem solving, requiring the understanding of low-level mathematical concepts.

<sup>&</sup>lt;sup>4</sup>Math level 4: Understanding of intermediate-level mathematical concepts and/or having the ability to formulate multistep solutions to word problems.

<sup>&</sup>lt;sup>5</sup>Math level 5: Proficiency in solving complex multistep word problems and/or the ability to demonstrate knowledge of material found in advanced mathematics courses.

<sup>&</sup>lt;sup>6</sup>The first language students learned to speak when they were children.

<sup>&</sup>lt;sup>7</sup>Students' self-report of the type of high school program in which they participated.

Other includes two guardians, female guardian only, male guardian only, and guardian who lives with the student less than half of the time.

NOTE: All race categories exclude Hispanic.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002).

Table B-23. Standard errors and standard deviations for table 23 estimates (percentage of high school sophomores demonstrating proficiency in specific reading knowledge and skills, by selected behavioral characteristics): 2002

	Sample_	Level	1 <sup>1</sup>	Lev	el 2 <sup>2</sup>	Leve	l 3 <sup>3</sup>
Selected characteristics	(n)	SE	SD	SE	SD	SE	SD
Total	15,362	0.39	25.57	0.70	39.65	0.28	21.08
Hours of outside reading							
per week None	4,074	0.59	26.77	0.85	37.79	0.27	14.31
1–4	7,808	0.39	22.39	0.86	39.24	0.27	22.03
5 or more	2,788	0.62	22.61	1.13	39.88	0.69	26.75
Hours of English homework per week							
None	1,829	0.90	29.84	1.25	39.26	0.54	17.08
1–4	8,027	0.43	23.58	0.80	39.49	0.36	22.07
5 or more	4,758	0.49	22.88	0.99	39.25	0.44	21.60
Importance placed on good grades							
Not important	199	2.85	34.84	3.70	40.79	2.10	23.16
Somewhat important	1,705	0.88	28.09	1.23	37.68	0.50	16.35
Important	5,308	0.49	24.61	0.87	38.57	0.35	18.20
Very important	7,874	0.46	24.29	0.87	40.17	0.40	23.66
Ever come to class without books							
Usually	1,358	1.27	34.58	1.25	36.56	0.51	15.32
Often	942	1.34	33.15	1.68	39.48	0.89	20.15
Seldom or never	12,182	0.36	22.78	0.72	39.41	0.31	22.05
Ever come to class without homework done							
Usually	1,609	1.23	34.84	1.29	38.32	0.47	15.11
Often	1,963	0.88	28.72	1.25	39.12	0.54	19.17
Seldom or never	10,875	0.34	22.30	0.73	39.41	0.34	22.53
I cut or skipped classes first semester							
Never	10,407	0.39	23.80	0.76	39.83	0.36	23.27
1–2 times	2,532	0.69	27.75	1.08	38.28	0.40	15.57
3–6 times	881	1.13	27.18	1.71	37.05	0.74	16.88
7 or more times	741	1.80	34.30	1.70	35.61	0.62	14.80

<sup>&</sup>lt;sup>1</sup>Simple reading comprehension, including reproduction of detail and/or author's main thought.
<sup>2</sup>Ability to make relatively simple inferences beyond the author's main thought and/or understand and evaluate

abstract concepts.

3 Ability to make complex inferences or evaluative judgments that require piecing together multiple sources of information from the passage.

Table B–24. Standard errors and standard deviations for table 24 estimates (percentage of high school sophomores demonstrating proficiency in specific mathematics knowledge and skills, by selected behavioral characteristics): 2002

		Level 1	1	Leve	el 2 <sup>2</sup>	Lev	vel 3 <sup>3</sup>	Level	4 <sup>4</sup>		_evel 5 <sup>5</sup>
Selected characteristics	Sample (n)	SE	SD	SE	SD	SE	SD	SE	SD	SE	SD
Total	15,362	0.30	19.46	0.77	41.57	0.81	45.82	0.54	32.82	0.08	6.62
Hours of math											
homework per											
week											
None	1,208	0.86	22.39	1.75	43.75	1.82	43.66	1.25	27.89	0.10	3.10
1–4	7,482	0.35	18.23	0.90	41.47	0.94	45.74	0.61	32.75	0.10	6.53
5 or more	5,929	0.34	16.95	0.82	38.80	0.95	45.67	0.76	34.44	0.14	7.65
Importance placed on good grades											
Not important Somewhat	199	2.75	27.81	3.97	44.46	3.98	44.66	2.92	32.43	0.17	2.81
important	1,705	0.58	18.53	1.40	41.64	1.45	43.65	0.89	27.75	0.15	5.12
Important	5,308	0.35	18.29	0.91	41.79	0.96	44.86	0.59	29.03	0.09	5.47
Very important	7,874	0.38	19.30	0.90	40.64	0.97	46.19	0.73	35.76	0.12	7.65
Ever come to class without books											
Usually	1,358	0.97	26.44	1.59	44.62	1.56	42.57	0.95	26.79	0.13	4.67
Often	942	1.02	25.43	1.82	44.70	1.72	43.27	1.27	29.67	0.25	6.99
Seldom or never	12,182	0.25	17.11	0.74	39.97	0.82	45.82	0.58	33.88	0.09	6.96

Standard Error Tables

Table B-24. Standard errors and standard deviations for table 24 estimates (percentage of high school sophomores demonstrating proficiency in specific mathematics knowledge and skills, by selected behavioral characteristics): 2002—Continued

		Level 1	1	Leve	el 2 <sup>2</sup>	Leve	el 3 <sup>3</sup>	Level	44	Leve	l 5 <sup>5</sup>
Selected characteristics	Sample (n)	SE	SD	SE	SD	SE	SD	SE	SD	SE	SD
Ever come to class without homework done											
Usually	1,609	0.96	25.82	1.58	44.77	1.50	43.30	0.96	27.90	0.11	4.47
Often	1,963	0.66	22.14	1.37	43.58	1.38	44.52	0.93	29.89	0.18	6.19
Seldom or never	10,875	0.26	16.96	0.73	39.90	0.84	45.92	0.59	34.19	0.09	7.16
I cut or skipped classes first semester											
Never	10,407	0.30	18.17	0.76	40.13	0.87	46.01	0.65	35.16	0.10	7.21
1-2 times	2,532	0.58	21.54	1.24	43.22	1.27	44.20	0.80	27.82	0.16	6.52
3-6 times	881	0.87	19.96	1.98	42.87	1.87	43.16	1.06	25.14	0.24	5.79
7 or more times	741	1.15	25.50	2.13	44.17	1.96	41.16	1.07	22.62	0.04	1.79

<sup>&</sup>lt;sup>1</sup>Math level 1: Simple arithmetical operations on whole numbers: essentially, single-step operations that rely on rote memory.

<sup>&</sup>lt;sup>2</sup>Math level 2: Simple operations with decimals, fractions, powers, and roots.

<sup>&</sup>lt;sup>3</sup>Math level 3: Simple problem solving, requiring the understanding of low-level mathematical concepts.

<sup>&</sup>lt;sup>4</sup>Math level 4: Understanding of intermediate-level mathematical concepts and/or having the ability to formulate multistep solutions to word problems.

<sup>&</sup>lt;sup>5</sup>Math level 5: Proficiency in solving complex multistep word problems and/or the ability to demonstrate knowledge of material found in advanced mathematics courses.

Table B–25. Standard errors and standard deviations for table 25 estimates (reading proficiency of high school sophomores, by socioeconomic status [SES] and selected racial/ethnic group): 2002

			2002 high school sophomores, percent								
SES		Sample	Level 1		Lev	el 2		Level 3			
quartile	Racial/ethnic group	(n)	SE	SD	SE	SD	SE	SD			
Lowest	Black	696	1.41	33.73	1.17	25.73	0.24	6.39			
	Hispanic or Latino	1,019	1.47	36.58	1.25	30.30	0.29	7.32			
	White	1,289	0.86	26.07	1.32	37.41	0.47	14.15			
Middle	Black	1,037	1.23	30.93	1.31	32.04	0.26	7.67			
	Hispanic or Latino	909	1.33	30.29	1.58	36.13	0.43	11.65			
	White	4,396	0.39	20.45	0.78	38.28	0.35	19.99			
Highest	Black	300	1.65	23.62	2.95	37.80	1.12	17.87			
	Hispanic or Latino	306	1.93	25.01	2.70	40.62	1.54	22.15			
	White	3,072	0.38	13.95	0.93	34.03	0.82	31.13			

Table B-26. Standard errors and standard deviations for table 26 estimates (mathematics proficiency of high school sophomores, by socioeconomic status [SES] and selected racial/ethnic group): 2002

					200	02 high schoo	ol sophomor	es, percent			
			Level	1	Level	2	Le	vel 3	Lev	rel 4	Level 5 <sup>1</sup>
SES		Sample									
quartile	Racial/ethnic group	(n)	SE	SD	SE	SD	SE	SD	SE	SD	
Lowest	Black	696	1.04	25.24	1.93	39.68	1.38	28.72	0.54	11.59	
	Hispanic or Latino	1,019	1.06	29.27	1.76	42.22	1.37	34.53	0.67	17.40	_
	White	1,289	0.57	19.57	1.49	42.89	1.53	43.17	0.78	23.64	_
Middle	Black	1,037	1.08	25.70	1.89	42.31	1.49	33.95	0.46	12.77	_
	Hispanic or Latino	909	0.94	21.99	1.81	43.58	1.76	41.40	0.94	22.53	_
	White	4,396	0.25	13.73	0.75	36.57	0.92	45.10	0.66	32.95	_
Highest	Black	300	1.54	21.19	3.25	42.02	3.54	45.22	1.88	26.28	_
-	Hispanic or Latino	306	1.12	16.40	3.34	41.47	3.62	45.82	2.82	35.06	_
	White	3,072	0.25	10.06	0.68	25.86	1.02	38.64	1.02	39.34	_

<sup>1</sup>Owing to the small sample size at level 5, analysis was conducted only for levels 1–4.

NOTE: All race categories exclude Hispanic.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002).

Table B-27. Standard errors and standard deviations for table 27 estimates (differences in reading proficiency of high school sophomores, by level of educational expectations and selected racial/ethnic group): 2002

			2002 high school sophomores, percent						
Educational	Racial/ethnic	Sample	Leve	l 1	Lev	el 2	Leve	el 3	
expectations	group	(n)	SE	SD	SE	SD	SE	SD	
High school or	Black	187	3.26	38.31	1.39	17.06	0.03	0.36	
less <sup>1</sup>	Hispanic or								
	Latino	244	2.80	39.76	1.32	18.39	0.07	2.27	
	White	567	1.78	34.74	1.45	30.75	0.37	7.59	
Some college <sup>2</sup>	Black	222	2.80	35.14	1.84	25.58	0.04	0.65	
	Hispanic or	255	2.70	37.03	2.20	30.36	0.62	0.64	
	Latino White	255 794	2.70 0.98	37.03 26.09	2.30 1.38	34.76	0.63 0.44	8.64 11.23	
	vviille	794	0.96	20.09	1.30	34.70	0.44	11.23	
College	Black	1,447	0.95	27.15	1.34	33.66	0.31	10.80	
graduation or	Hispanic or								
higher <sup>3</sup>	Latino	1,448	1.23	30.18	1.46	37.32	0.42	13.55	
-	White	6,626	0.25	14.16	0.70	36.23	0.46	26.28	

<sup>&</sup>lt;sup>1</sup>High school or less includes sophomores who do not expect to complete high school, those expecting to complete a

GED, and those expecting to graduate from high school. <sup>2</sup>Some college includes sophomores who expect to attend or complete a 2-year community college or vocational school and those expecting to attend a 4-year college, but not complete a degree.

3 College graduation or higher includes sophomores who expect their highest degree to be a 4-year college degree,

master's degree, Ph.D., M.D., or other advanced degree.

Appendix B: Standard Error Tables

Table B–28. Standard errors and standard deviations for table 28 estimates (differences in mathematics proficiency of high school sophomores, level of educational expectations and selected racial/ethnic group): 2002

			2002 high school sophomores, percent									
			Level	1	Level 2	2	L	evel 3	Lev	rel 4	Level 5 <sup>1</sup>	
Educational expectations	Racial/ethnic group	Sample (n)	SE	SD	SE	SD	SE	SD	SE	SD		
High school or	Black	187	2.21	29.03	2.52	31.22	1.35	18.27	0.20	2.58	_	
less <sup>2</sup>	Hispanic or Latino	244	2.31	31.65	2.35	33.62	1.09	16.47	0.36	7.03	_	
	White	567	1.22	25.01	1.96	42.13	1.76	34.73	0.75	15.49	_	
Some college <sup>3</sup>	Black	222	2.20	29.16	2.88	37.00	1.73	23.12	0.44	6.88	_	
	Hispanic or Latino	255	2.25	29.12	3.20	41.25	2.75	34.86	1.19	15.32		
	White	794	0.90	20.83	1.72	42.02	1.64	40.76	0.83	20.66	_	
College	Black	1,447	0.91	22.09	1.73	42.58	1.49	38.08	0.64	17.69	_	
graduation or	Hispanic or Latino	1,448	0.86	22.74	1.78	43.81	1.75	42.51	0.98	25.32		
higher <sup>4</sup>	White	6,626	0.15	9.26	0.56	29.80	0.75	42.22	0.72	37.21		

<sup>&</sup>lt;sup>1</sup>Owing to the small sample size at level 5, analysis was conducted only for levels 1–4.

<sup>&</sup>lt;sup>2</sup>High school or less includes sophomores who do not expect to complete high school, those expecting to complete a GED, and those expecting to graduate from high school.

<sup>&</sup>lt;sup>3</sup>Some college includes sophomores who expect to attend or complete a 2-year community college or vocational school and those expecting to attend a 4-year college, but not complete a degree.

<sup>&</sup>lt;sup>4</sup>College graduation or higher includes sophomores who expect their highest degree to be a 4-year college degree, master's degree, Ph.D., M.D., or other advanced degree.

Table B-29. Standard errors and standard deviations for table 29 estimates (differences in reading proficiency of high school sophomores, by sex and selected racial/ethnic group): 2002

		2002 high school sophomores, perce								
		Sample	Level 1		Lev	el 2	Level 3			
Sex	Racial/ethnic group	(n)	SE	SD	SE	SD	SE	SD		
Male	Black	1,011	1.14	32.99	1.33	31.74	0.28	8.89		
	Hispanic or Latino	1,109	1.51	35.37	1.59	35.56	0.42	11.69		
	White	4,339	0.46	22.31	0.85	39.57	0.47	23.99		
Female	Black	1,022	1.19	29.56	1.27	32.29	0.34	9.94		
	Hispanic or Latino	1,125	1.29	31.96	1.39	35.04	0.40	11.51		
	White	4,418	0.35	16.96	0.90	37.70	0.52	24.41		

Table B-30. Standard errors and standard deviations for table 30 estimates (differences in mathematics proficiency of high school sophomores, by sex and selected racial/ethnic group): 2002

			2002 high school sophomores, percent								
		Sample —	Level	1	Le	vel 2	Le	vel 3	Lev	el 4	Level 5 <sup>1</sup>
Sex	Racial/ethnic group	(n)	SE	SD	SE	SD	SE	SD	SE	SD	
Male	Black	1,011	1.05	24.75	1.91	42.88	1.64	36.71	0.60	15.36	
	Hispanic or Latino	1,109	0.97	26.21	1.82	43.80	1.81	40.53	1.01	23.51	_
	White	4,339	0.29	14.85	0.80	35.91	0.97	44.89	0.77	37.11	_
Female	Black	1,022	1.00	25.59	1.76	42.04	1.39	33.36	0.60	15.25	_
	Hispanic or Latino	1,125	0.95	25.91	1.76	43.81	1.54	38.69	0.78	21.28	_
	White	4,418	0.26	13.13	0.79	36.26	0.98	45.02	0.80	33.98	_

Owing to the small sample size at level 5, analysis was conducted only for levels 1–4.

Table B–31. Standard errors for table 31 estimates (percentage of high school sophomores who reported that various life values related to education and work were very important to them, by selected student and school characteristics): 2002

Selected student and school characteristics	Getting a good education	Being successful in line of work	Becoming an expert in field of work	Having lots of money	Being able to find steady work	Having leisure time to enjoy own interests
Total	0.40	0.38	0.47	0.56	0.38	0.51
Sex Male Female	0.63 0.45	0.52 0.49	0.66 0.67	0.79 0.71	0.58 0.45	0.70 0.70
Racial/ethnic group American Indian or						
Alaska Native	4.01	3.89	4.06	5.11	3.97	4.31
Asian or Pacific Islander	1.06	1.12	1.51	1.91	1.32	1.68
Black	0.84	0.90	1.05	1.40	0.88	1.25
Hispanic or Latino More than one race	0.97	1.05	1.19	1.37	1.03	1.36
White	1.81 0.55	1.63 0.47	2.24 0.65	2.43 0.68	1.80 0.48	2.22 0.62
vviite	0.55	0.47	0.05	0.00	0.40	0.02
Socioeconomic status						
Lowest quartile	0.81	0.82	0.95	0.99	0.80	0.99
Middle two quartiles	0.58	0.48	0.59	0.79	0.49	0.64
Highest quartile	0.77	0.65	0.93	0.92	0.77	0.87
Parents' education						
High school or less	0.73	0.75	0.91	0.88	0.76	0.97
Some college	0.67	0.53	0.72	0.93	0.58	0.80
College graduation	0.76	0.77	1.07	1.10	0.80	1.05
Graduate/professional						
degree	0.95	0.80	1.03	1.19	0.93	1.10
Student's educational expectations						
High school or less	1.90	1.82	1.87	1.70	1.67	1.72
Some college	1.39	1.35	1.54	1.73	1.27	1.51
College graduation Graduate/professional	0.64	0.57	0.79	0.87	0.66	0.77
degree	0.40	0.37	0.71	0.85	0.55	0.74
Don't know	1.55	1.40	1.69	1.55	1.43	1.48
Native language <sup>1</sup>						
English	0.45	0.38	0.52	0.61	0.39	0.54
Non-English	0.97	1.13	1.21	1.38	1.10	1.25
High school program <sup>2</sup>						
General	0.76	0.65	0.78	0.81	0.66	0.81
College preparatory	0.43	0.43	0.65	0.76	0.50	0.63
Vocational	1.38	1.11	1.31	1.67	1.31	1.40

Table B-31. Standard errors for table 31 estimates (percentage of high school sophomores who reported that various life values related to education and work were very important to them, by selected student and school characteristics): 2002—Continued

				,		
						Having
	<b>-</b>	Being	Becoming		Being able	leisure time
Selected student and	Getting a	successful	an expert in	Having	to find	to enjoy
school	good	in line of	field of	lots of	steady	own
characteristics	education	work	work	money	work	interests
Composite achievement						
test score in sophomore						
year .						
Lowest quartile	0.87	0.82	0.94	1.08	0.85	0.97
Middle two quartiles	0.55	0.47	0.61	0.72	0.46	0.64
Highest quartile	0.72	0.60	1.05	0.98	0.75	0.88
Sophomore's school						
sector						
Public	0.43	0.41	0.50	0.60	0.40	0.54
Catholic	0.85	0.69	1.40	1.55	0.80	1.25
Other private	1.28	1.40	1.66	1.94	1.52	2.23
Region of sophomore's						
school						
Northeast	0.98	0.96	1.22	1.40	0.84	1.01
Midwest	0.74	0.71	1.06	1.24	0.65	0.86
South	0.65	0.53	0.60	0.83	0.56	0.85
West	0.98	0.94	1.03	1.19	1.01	1.34
Urbanicity of sophomore's						
school						
Urban	0.74	0.65	0.79	1.09	0.72	0.89
Suburban	0.57	0.55	0.67	0.80	0.53	0.76
Rural	0.92	0.86	1.12	1.06	0.78	1.04
The first law sure as attracted to an						

<sup>&</sup>lt;sup>1</sup>The first language students learned to speak when they were children.
<sup>2</sup>Students' self-report of the type of high school program in which they participated.

NOTE: All race categories exclude Hispanic.

Table B–32. Standard errors for table 32 estimates (percentage of high school sophomores who reported that various life values related to family and friends were very important to them, by selected student and school characteristics): 2002

them, by selected student and s	Finding right person to marry and	,	Being able to give my children better	Having
Selected student and school characteristics	having happy family life	Having children	opportunities than I've had	strong friendships
Total	0.47	0.58	0.43	0.41
Sex				
Male	0.68	0.82	0.63	0.58
Female	0.60	0.76	0.57	0.51
Racial/ethnic group				
American Indian or Alaska Native	6.02	6.63	3.54	4.23
Asian or Pacific Islander	1.45	1.96	1.65	1.11
Black	1.10	1.43	0.88	1.19
Hispanic or Latino	1.28	1.40	0.93	1.32
More than one race	1.95	2.40	1.85	1.89
White	0.56	0.72	0.57	0.40
Socioeconomic status				
Lowest quartile	0.89	1.12	0.74	0.91
Middle two quartiles	0.61	0.81	0.58	0.54
Highest quartile	0.87	0.96	0.88	0.61
Parents' education				
High school or less	0.82	0.99	0.68	0.81
Some college	0.75	0.92	0.68	0.62
College graduation	0.92	1.07	0.88	0.79
Graduate/professional degree	1.01	1.23	1.08	0.81
Student's educational expectations				
High school or less	1.77	1.72	1.70	1.66
Some college	1.36	1.53	1.47	1.41
College graduation	0.72	0.93	0.67	0.66
Graduate/professional degree	0.72	0.85	0.63	0.62
Don't know	1.43	1.60	1.34	1.28
Native language <sup>1</sup>				
English	0.48	0.60	0.46	0.42
Non-English	1.24	1.42	1.02	1.35
High school program <sup>2</sup>				
General	0.72	0.84	0.69	0.70
College preparatory	0.60	0.80	0.57	0.49
Vocational See retain at and of table	1.33	1.69	1.23	1.28

Table B-32. Standard errors for table 32 estimates (percentage of high school sophomores who reported that various life values related to family and friends were very important to them, by selected student and school characteristics): 2002—Continued

	Finding right person to marry and	g	Being able to ive my children better	Having
	having happy	Having	opportunities	strong
Selected student and school characteristics	family life	children	than I've had	friendships
Composite achievement test score in sophomore year				
Lowest quartile	0.85	0.99	0.83	0.91
Middle two quartiles	0.62	0.79	0.49	0.53
Highest quartile	0.84	1.04	0.91	0.59
Sophomore's school sector				
Public	0.50	0.62	0.45	0.43
Catholic	0.94	1.30	1.18	0.83
Other private	1.45	1.48	1.68	1.02
Region of sophomore's school				
Northeast	1.04	1.38	0.99	0.87
Midwest	0.86	1.16	1.02	0.72
South	0.76	0.92	0.64	0.69
West	1.13	1.29	0.87	0.98
Urbanicity of sophomore's school				
Urban	0.91	1.07	0.78	0.87
Suburban	0.66	0.87	0.61	0.53
Rural	0.91	1.02	0.90	0.79

<sup>&</sup>lt;sup>1</sup>The first language students learned to speak when they were children.

<sup>&</sup>lt;sup>2</sup>Student's self-report of the type of high school program in which they participated.

NOTE: All race categories exclude Hispanic.

Table B–33. Standard errors for table 33 estimates (percentage of high school sophomores who reported that various life values related to community and society were very important to them, by selected student and school characteristics): 2002

Selected student and school characteristics	Living close to parents and relatives	Getting away from this area of the country	Helping other people in community	Working to correct social and economic inequalities
Total	0.52	0.48	0.46	0.46
Sex				
Male	0.69	0.64	0.63	0.60
Female	0.70	0.61	0.70	0.65
Racial/ethnic group				
American Indian or Alaska Native	5.68	4.78	4.40	3.52
Asian or Pacific Islander	2.04	1.32	1.92	1.49
Black	1.14	1.32	1.42	1.37
Hispanic or Latino	1.23	1.15	1.29	1.33
More than one race	2.10	2.15	2.39	1.65
White	0.65	0.56	0.59	0.51
Socioeconomic status				
Lowest quartile	0.98	0.84	0.93	0.97
Middle two quartiles	0.67	0.67	0.71	0.61
Highest quartile	0.89	0.74	0.87	0.69
Parents' education				
High school or less	0.97	0.80	0.94	0.86
Some college	0.74	0.83	0.76	0.67
College graduation	0.99	0.86	0.95	0.80
Graduate/professional degree	1.09	0.95	1.18	0.91
Student's educational expectations				
High school or less	1.82	1.64	1.73	1.47
Some college	1.54	1.43	1.43	1.26
College graduation	0.84	0.74	0.85	0.70
Graduate/professional degree	0.78	0.68	0.77	0.69
Don't know	1.39	1.32	1.48	1.20
Native language <sup>1</sup>				
English	0.54	0.53	0.50	0.45
Non-English	1.39	1.03	1.24	1.38
High school program <sup>2</sup>				
General	0.76	0.75	0.76	0.66
College preparatory	0.67	0.63	0.64	0.59
Vocational	1.41	1.47	1.53	1.54

Table B-33. Standard errors for table 33 estimates (percentage of high school sophomores who reported that various life values related to community and society were very important to them, by selected student and school characteristics): 2002— Continued

Selected student and school characteristics	Living close to parents and relatives	Getting away from this area of the country	Helping other people in community	Working to correct social and economic inequalities
Composite achievement test score in		•	•	•
sophomore year				
Lowest quartile	1.05	0.96	1.02	0.96
Middle two quartiles	0.70	0.66	0.68	0.58
Highest quartile	0.84	0.71	0.88	0.64
Sophomore's school sector				
Public	0.56	0.52	0.49	0.49
Catholic	1.37	1.05	1.36	0.95
Other private	1.56	1.34	1.95	1.47
Region of sophomore's school				
Northeast	1.13	1.13	1.11	1.09
Midwest	1.11	0.77	0.90	0.88
South	0.83	0.82	0.74	0.72
West	1.15	1.20	0.99	1.10
Urbanicity of sophomore's school				
Urban	1.02	0.85	0.82	0.87
Suburban	0.72	0.68	0.66	0.67
Rural	1.03	1.15	0.99	0.82

<sup>&</sup>lt;sup>1</sup>The first language students learned to speak when they were children. <sup>2</sup>Student's self-report of the type of high school program in which they participated.

NOTE: All race categories exclude Hispanic.

Table B–34. Standard errors for table 34 estimates (percentage of high school sophomores who expected to reach various levels of education, by selected student and school characteristics): 2002

,	Less	High	Attend or complete 2-year community	Attend college, but not		Master's	Ph.D., M.D.,	
Selected student	than	school	or	complete	Graduate	degree	or other	
and school	high	or	vocational	4-year	from	Or	advanced	Don't
characteristics	school	GED	school	degree	college	equivalent	degree	know
Total	0.10	0.30	0.29	0.18	0.46	0.44	0.40	0.30
Sex								
Male	0.14	0.44	0.43	0.26	0.66	0.56	0.44	0.42
Female	0.13	0.31	0.34	0.25	0.65	0.57	0.61	0.37
Racial/ethnic group American Indian or Alaska Native	0.41	3.28	2.55	1.49	6.15	5.07	4.07	3.04
Asian or Pacific	0.41	3.20	2.55	1.73	0.13	3.07	7.07	3.04
Islander	0.43	0.59	0.57	0.83	1.89	1.40	1.75	1.05
Black	0.27	0.82	0.64	0.59	1.19	0.92	1.24	0.69
Hispanic or Latino	0.30	0.90	0.66	0.58	1.30	0.86	0.94	0.92
More than one	0.40	4.40	4.00		0.00	4.00	4.00	4.05
race	0.49	1.12	1.00	0.95	2.32	1.93	1.82	1.35
White	0.11	0.35	0.34	0.19	0.60	0.58	0.47	0.35
Socioeconomic status								
Lowest quartile Middle two	0.23	0.67	0.55	0.46	0.89	0.62	0.60	0.64
quartiles	0.14	0.37	0.39	0.23	0.70	0.57	0.52	0.43
Highest quartile	0.10	0.31	0.32	0.26	0.91	0.90	0.92	0.49
Parents' education High school or								
less	0.21	0.67	0.56	0.41	0.90	0.66	0.57	0.64
Some college College	0.13	0.45	0.44	0.35	0.82	0.65	0.61	0.50
graduation Graduate/ professional	0.18	0.43	0.44	0.31	1.06	1.00	0.80	0.55
degree	0.21	0.45	0.42	0.29	1.15	1.13	1.16	0.57
Native language <sup>1</sup>								
English	0.10	0.31	0.30	0.19	0.49	0.48	0.44	0.31
Non-English	0.29	0.85	0.66	0.59	1.04	0.88	0.95	0.82
High school program <sup>2</sup>								
General College	0.19	0.55	0.45	0.33	0.79	0.59	0.54	0.56
preparatory	0.09	0.24	0.24	0.23	0.65	0.66	0.59	0.36
Vocational	0.35	1.03	1.21	0.69	1.36	1.13	0.96	0.90

Table B-34. Standard errors for table 34 estimates (percentage of high school sophomores who expected to reach various levels of education, by selected student and school characteristics): 2002—Continued

Selected student and school characteristics	Less than high school	High school or GED	Attend or complete 2-year community or vocational school	Attend college, but not complete 4-year degree	Graduate from college	Master's degree or equivalent	Ph.D., M.D., or other advanced degree	Don't know
Composite achievement test score in sophomore year								
Lowest quartile Middle two	0.35	0.81	0.65	0.54	0.86	0.57	0.61	0.70
quartiles Highest quartile	0.09 0.01	0.32 0.18	0.41 0.30	0.23 0.20	0.68 0.91	0.53 0.95	0.53 0.91	0.41 0.48
	0.01	0.16	0.30	0.20	0.91	0.95	0.91	0.40
Sophomore's school sector								
Public	0.11	0.33	0.31	0.20	0.49	0.47	0.42	0.32
Catholic	0.03	0.26	0.33	0.37	1.55	1.41	1.25	0.58
Other private	0.12	0.76	0.39	0.49	1.69	1.40	2.09	0.95
Region of sophomore's school								
Northeast	0.16	0.76	0.65	0.36	1.11	1.12	0.94	0.56
Midwest	0.18	0.54	0.55	0.34	0.97	0.83	0.74	0.65
South	0.15	0.44	0.42	0.29	0.75	0.60	0.65	0.40
West	0.28	0.77	0.75	0.47	0.94	1.15	0.93	0.81
Urbanicity of sophomore's school								
Urban	0.19	0.63	0.47	0.35	0.86	0.86	0.86	0.59
Suburban	0.13	0.38	0.43	0.26	0.63	0.63	0.52	0.42
Rural	0.20	0.68	0.67	0.38	1.07	0.88	0.78	0.61

<sup>&</sup>lt;sup>1</sup>The first language students learned to speak when they were children. <sup>2</sup>Student's self-report of the type of high school program in which they participated.

NOTE: All race categories exclude Hispanic.

Table B-35. Standard errors for table 35 estimates (percentage of high school sophomores who expected to reach various levels of education, by selected racial/ethnic groups, sex, and socioeconomic status [SES]): 2002

Racial/ethnic group and sex	SES	High school or less	Some college	College graduation	Graduate/ professional degree	Don't know
White male	All SES	0.57	0.57	0.89	0.85	0.50
write male	Low SES	1.93	1.71	2.04	1.77	1.39
	Mid SES	0.71	0.78	1.22	1.11	0.74
	High SES	0.60	0.68	1.54	1.65	0.82
	riigii OLO	0.00	0.00	1.04	1.00	0.02
White female	All SES	0.38	0.50	0.83	0.86	0.47
	Low SES	1.34	1.69	1.89	1.96	1.54
	Mid SES	0.52	0.67	1.33	1.22	0.67
	High SES	0.24	0.46	1.47	1.44	0.70
Black male	All SES	1.32	1.22	1.70	1.54	1.04
	Low SES	2.09	2.25	2.71	2.56	1.41
	Mid SES	1.85	1.58	2.44	2.01	1.74
	High SES	2.80	3.26	4.36	4.13	1.49
Black female	All SES	0.89	1.04	1.73	1.98	1.03
DIACK TETTIALE	Low SES	1.64	1.73	2.86	2.79	1.68
	Mid SES	1.11	1.73	2.62	2.72	1.43
	High SES	1.15	2.63	4.42	4.29	3.29
	riigiroLo	1.15	2.00	7.72	4.23	5.29
Hispanic or Latino male	All SES	1.36	1.43	1.87	1.38	1.24
·	Low SES	1.77	1.70	2.25	1.70	1.78
	Mid SES	1.92	2.42	3.03	2.41	1.48
	High SES	3.46	2.51	5.75	4.74	2.91
Hanania and atina face de	All OEO	4.00	4.00	4.54	4.00	4.00
Hispanic or Latina female	All SES	1.03	1.00	1.54	1.68	1.20
	Low SES	1.59	1.43	2.10	2.14	1.74
	Mid SES	1.54	1.77	2.82	2.90	1.77
NOTE: All rose estagorios evaludo	High SES	1.65	2.44	5.07	5.80	2.79

Table B-36. Standard errors for table 36 estimates (high school sophomores' plans for education after high school, by selected student and school characteristics): 2002

arter mgn school, by ser	- Student			,5). <b>2002</b>	
		Plans to	Plans to continue	Does not	
	Plans to	continue	education	plan to	
	continue	education	after staying	continue	
Selected student and school		after staying		education	
characteristics	high school	out of school for 1 year	for over 1 year	after high school	Don't know
Total	0.52		0.15	0.07	0.34
Sex					
Male	0.73	0.55	0.29	0.12	0.53
Female	0.67	0.56	0.13	0.07	0.40
Racial/ethnic group					
American Indian or Alaska Native	4.58	4.07	2.08	0.63	3.42
Asian or Pacific Islander	1.55	1.00	0.38	0.20	1.02
Black	1.25		0.27	0.23	0.79
Hispanic or Latino	1.15	0.97	0.48	0.21	0.91
More than one race	2.64	2.05	0.72	0.21	1.58
White	0.66	0.49	0.19	0.09	0.43
Socioeconomic status					
Lowest quartile	1.04	0.90	0.35	0.22	0.73
Middle two quartiles	0.74	0.61	0.21	0.09	0.48
Highest quartile	0.73	0.56	0.26	0.06	0.49
Parents' education					
High school or less	1.01	0.83	0.34	0.20	0.69
Some college	0.83	0.70	0.28	0.11	0.56
College graduation	0.90	0.68	0.30	0.11	0.57
Graduate/professional degree	0.94	0.82	0.26	0.07	0.58
Student educational expectations					
High school or less	†	†	†	†	†
Some college	1.50	1.41	0.63	0.38	1.15
College graduation	0.75	0.63	0.26	0.08	0.42
Graduate/professional degree	0.57	0.51	0.17	0.05	0.30
Don't know	1.51	1.15	0.49	0.40	1.61
Native language <sup>1</sup>					
English	0.55	0.43	0.16	0.07	0.36
Non-English	1.23	0.97	0.46	0.27	0.85
High school program <sup>2</sup>					
General	0.90	0.68	0.27	0.15	0.69
College preparatory	0.57	0.46	0.17	0.05	0.37
Vocational	1.62	1.33	0.70	0.31	1.07

Table B-36. Standard errors for table 36 estimates (high school sophomores' plans for education after high school, by selected student and school characteristics): 2002—Continued

Selected student and school characteristics	Plans to continue education right after high school	Plans to continue education after staying out of school for 1 year	Plans to continue education after staying out of school for over 1 year	Does not plan to continue education after high school	Don't know
Composite achievement test score in sophomore year					
Lowest quartile	1.16	0.89	0.41	0.28	0.89
Middle two quartiles	0.76	0.61	0.19	0.06	0.48
Highest quartile	0.82	0.54	0.27	0.08	0.60
Sophomore's school sector					
Public	0.56	0.43	0.17	0.08	0.36
Catholic	1.14	0.79	0.11	0.09	0.63
Other private	2.22	1.17	0.17	0.02	1.83
Region of sophomore's school					
Northeast	1.31	0.86	0.41	0.19	0.70
Midwest	0.99	0.77	0.18	0.17	0.69
South	0.79	0.63	0.23	0.09	0.52
West	1.17	0.96	0.44	0.14	0.81
Urbanicity of sophomore's school					
Urban	0.88	0.68	0.29	0.13	0.67
Suburban	0.73	0.57	0.23	0.09	0.46
Rural	1.35	0.90	0.30	0.18	0.71

Not applicable. Questionnaire respondents who indicated in question BYS56 that they did not plan to go on to postsecondary studies were routed past subsequent questions on postsecondary plans.

<sup>&</sup>lt;sup>1</sup>The first language students learned to speak when they were children.

<sup>&</sup>lt;sup>2</sup>Student's self-report of the type of high school program in which they participated.

NOTE: All race categories exclude Hispanic.

Table B-37. Standard errors for table 37 estimates (high school sophomores' reports of what parents and other adults thought was the most important thing for them to do right after high school): 2002

Adults' opinions as reported by students, in percent Favorite Most important thing to do right after high school Mother Father teacher Counselor 0.59 Go to college 0.55 0.54 0.51 Get a full-time job 0.21 0.23 0.10 0.10 Enter a trade school or apprenticeship 0.15 0.16 0.12 0.13 Enter military service 0.12 0.18 0.09 0.09 Get married 0.07 0.06 0.05 0.03 They think I should do what I want 0.36 0.33 0.28 0.26 They have no opinion / I don't know their opinion 0.25 0.31 0.44 0.49

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002).

Table B-38. Standard errors for table 38 estimates (percentage of high school sophomores who expected to work in various occupational categories at age 30): 2002

Occupational category	Standard error
Clerical	0.05
Craftsperson	0.18
Farmer, farm manager	0.03
Homemaker (without other job)	0.03
Laborer	0.06
Manager, administrator	0.14
Military	0.10
Operative	0.10
Professional I <sup>1</sup>	0.46
Professional II <sup>2</sup>	0.43
Proprietor or owner	0.15
Protective service	0.17
Sales	0.08
School teacher	0.13
Service	0.17
Technical	0.19
Other	0.07
Not planning to work at age 30	0.11
Don't know	0.52

<sup>&</sup>lt;sup>1</sup>Professional I = Accountant, artist, registered nurse, engineer, librarian, writer, social worker, actor, actress, athlete. politician, but not including school teacher.

Professional II = Clergy, dentist, physician, lawyer, scientist, college teacher.

Table B-39. Standard errors for table 39 estimates (percentage of high school sophomores who expected to work in various occupational categories at age 30, by sex): 2002

Occupational category	Female students	Male students
Clerical	0.10	0.04
Craftsperson	0.13	0.32
Farmer, farm manager	0.03	0.06
Homemaker (without other job)	0.06	0.01
Laborer	0.00	0.12
Manager, administrator	0.19	0.22
Military	0.08	0.19
Operative	0.04	0.19
Professional I <sup>1</sup>	0.61	0.70
Professional II <sup>2</sup>	0.61	0.49
Proprietor or owner	0.19	0.23
Protective service	0.15	0.32
Sales	0.08	0.14
School teacher	0.24	0.12
Service	0.33	0.09
Technical	0.22	0.32
Other	0.10	0.11
Not planning to work at age 30	0.16	0.14
Don't know	0.68	0.73

<sup>&</sup>lt;sup>1</sup>Professional I = Accountant, artist, registered nurse, engineer, librarian, writer, social worker, actor, actress, athlete, politician, but not including school teacher.

2 Professional II = Clergy, dentist, physician, lawyer, scientist, college teacher.

Table B-40. Standard errors for figure 1 estimates (percentage of high school sophomores, by year of birth): 2002

Year	Standard error
1983/1984 <sup>1</sup>	0.27
1985	0.48
1986/1987 or later <sup>2</sup>	0.54

<sup>&</sup>lt;sup>1</sup>4.4 percent born in 1984 and an additional 0.6 percent born in 1983 and earlier.

<sup>&</sup>lt;sup>2</sup>57.6 percent born in 1986 and an additional 0.5 percent born in 1987 or later.

Table B-41. Standard errors for figure 2 estimates (percentage of high school sophomores, by racial/ethnic group): 2002

Racial/ethnic group	Standard error
American Indian or Alaska Native	0.20
Asian or Pacific Islander	0.26
Black	0.66
Hispanic or Latino	0.87
More than one race	0.23
White	0.98

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002).

Table B-42. Standard errors for figure 3 estimates (percentage of high school sophomores whose native language was English, by racial/ethnic group): 2002

Racial/ethnic group	Standard error
Asian or Pacific Islander	2.01
Black	0.64
Hispanic or Latino	1.93
White	0.28

NOTE: All race categories exclude Hispanic.

Table B-43. Standard errors for figure 4 estimates (percentage of high school sophomores living in various family configurations): 2002

Family configuration	Standard error
Single parent	0.47
Mother and father	0.57
Mother or father and guardian	0.40
Other <sup>1</sup>	0.21

Other includes two guardians, female guardian only, male guardian only, and a guardian who lives with the student less than half the time.

Table B-44. Standard errors for figure 5 estimates (percentage of high school sophomores, by mother's highest level of education): 2002

Education level mother completed	Standard error
Less than high school	0.54
High school only	0.49
Some college	0.53
4-year degree	0.46
Graduate/professional degree	0.33

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002).

Table B-45. Standard errors for figure 6 estimates (percentage of high school sophomores, by father's highest level of education): 2002

Education level father completed	Standard error
Less than high school	0.54
High school only	0.54
Some college	0.48
4-year degree	0.43
Graduate/professional degree	0.46

Table B-46. Standard errors for figure 7 estimates (percentage of high school sophomores, by parents' highest level of education, by racial/ethnic group): 2002

Racial/ethnic group	Less than high school	High school only	Some college	4-year degree	Graduate/ professional degree
Total	0.39	0.47	0.53	0.46	0.53
American Indian or Alaska native	2.58	4.12	4.99	4.04	3.50
Asian or Pacific Islander	1.15	1.21	1.74	1.75	2.08
Black	0.56	1.00	1.18	0.99	0.81
Hispanic or Latino	1.53	1.10	1.20	1.03	0.64
More than one race	1.08	1.73	2.30	1.98	1.56
White	0.21	0.62	0.69	0.59	0.67

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002).

Table B-47. Standard errors for figure 8 estimates (percentage of high school sophomores in selected racial/ethnic groups, by socioeconomic status [SES]): 2002

Racial/ethnic group	Low SES	Middle SES	High SES
Asian or Pacific Islander	2.16	1.69	2.15
Black	1.38	1.37	0.89
Hispanic or Latino	1.86	1.54	0.86
White	0.63	0.80	0.94

NOTE: Excludes "American Indian/Alaska Native" and "More than one race." All race categories exclude Hispanic. SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002).

Table B-48. Standard errors for figure 9 estimates (percentage of high school sophomores attending various types of schools): 2002

School type	Standard error
Catholic	0.16
Other private	0.23
Public	0.29

Table B-49. Standard errors for figure 10 estimates (percentage of high school sophomores attending various types of schools, by racial/ethnic group): 2002

Racial/ethnic group	Public	Catholic	Other private
Total	0.29	0.16	0.23
American Indian or Alaska Native	2.50	0.47	2.45
Asian or Pacific Islander	1.51	1.13	1.04
Black	0.39	0.35	0.17
Hispanic or Latino	0.52	0.43	0.26
More than one race	0.93	0.63	0.66
White	0.47	0.27	0.39

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002).

Table B-50. Standard errors for figure 11 estimates (percentage of high school sophomores attending various types of schools, by socioeconomic status [SES]): 2002

Socioeconomic status	Public	Catholic	Other private
Total	0.29	0.16	0.23
Low SES	0.24	0.16	0.17
Middle SES	0.31	0.19	0.25
High SES	0.98	0.59	0.81

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002).

Table B-51. Standard errors for figure 12 estimates (percentage of high school sophomores in urban, suburban, and rural schools): 2002

School location	Standard error
Urban	0.75
Suburban	0.80
Rural	0.63

Table B-52. Standard errors for figure 13 estimates (percentage of high school sophomores in urban, suburban, and rural schools, by racial/ethnic group): 2002

Racial/ethnic group	Urban	Suburban	Rural
Total	0.75	0.80	0.63
American Indian or Alaska Native	7.20	10.36	8.87
Asian or Pacific Islander	2.94	2.99	1.60
Black	2.29	2.16	1.44
Hispanic or Latino	3.03	3.01	1.16
More than one race	2.44	2.70	2.26
White	0.95	1.13	0.94

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002).

Table B-53. Standard errors for figure 14 estimates (percentage of high school sophomores in urban, suburban, and rural schools, by socioeconomic status [SES]): 2002

Socioeconomic status	Urban	Suburban	Rural
Total	0.75	0.80	0.63
Low SES	1.63	1.62	1.10
Middle SES	0.89	1.01	0.78
High SES	1.47	1.62	1.23

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002).

Table B-54. Standard errors for figure 17 estimates (percentage of high school sophomores who agreed or strongly agreed with various statements about their school and the teachers in their school, by school type): 2002

			Teachers	Students	There	When I work
	The	Students of different	are	get along	is real	hard, teachers
	teaching	racial/ethnic groups	interested	well with	school	praise my
School type	is good	make friends	in students	teachers	spirit	effort
Total	0.50	0.34	0.54	0.60	0.71	0.55
Public	0.53	0.37	0.58	0.64	0.76	0.58
Catholic	0.96	0.66	1.11	1.06	1.58	1.44
Other private	1.25	1.28	1.39	1.57	2.71	1.61

Table B-55. Standard errors for figure 18 estimates (percentage distribution of high school sophomores according to the extent to which they liked their school, by racial/ethnic group): 2002

Racial/ethnic group	Liked school a great deal	Liked school somewhat	Did not like school at all
Total	0.45	0.48	0.37
American Indian or Alaska Native	3.19	4.17	4.34
Asian or Pacific Islander	1.50	1.53	0.83
Black	1.19	1.22	0.81
Hispanic or Latino	1.23	1.26	0.75
More than one race	2.12	2.47	1.70
White	0.54	0.60	0.48

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002).

Table B-56. Standard errors for figure 19 estimates (percentage of high school sophomores who agreed or strongly agreed with various statements about school safety, by school type, urbanicity, and school region): 2002

<b>31</b> / <b>3</b> /	0 ,		
Selected school characteristics	I do not feel safe at this school	There are gangs in school	Fights often occur between different racial/ethnic groups
School type			
Public	0.41	0.90	0.78
Catholic	0.57	1.41	0.99
Other private	0.65	0.89	0.95
Urbanicity			
Urban	0.81	1.51	1.48
Suburban	0.53	1.25	1.01
Rural	0.65	1.65	1.33
School region			
Northeast	0.97	1.91	2.07
Midwest	0.68	1.69	1.31
South	0.67	1.24	0.93
West	0.81	2.09	1.84

Table B-57. Standard errors for figure 20 estimates (percentage of high school sophomores who experienced various forms of crime and bullying at school at least once or twice during the first semester/terms of the school year, by sex): 2002

							Someone		Someone used strong- arm/
							purposely		forceful
	Any	I had	Someone				damaged or	I got	methods to
	crime	something	offered to	Someone		bullied or	destroyed	into a	get money
	and	stolen	sell me	threatened	Someone	picked on	my	physical	or things
Sex	bullying	from me	drugs	to hurt me	hit me	me	belongings	fight	from me
Total	0.53	0.54	0.53	0.46	0.46	0.44	0.39	0.40	0.16
Male	0.67	0.75	0.74	0.71	0.71	0.61	0.58	0.59	0.25
Female	0.77	0.74	0.65	0.62	0.51	0.60	0.44	0.41	0.18

Table B-58. Standard errors for figure 21 estimates (percentage of high school sophomores who agreed or strongly agreed with various statements about their school rules, by school type): 2002

School type	Everyone knows what the school rules are	The school rules are fair	Punishment for breaking the rules is the same no matter who you are	The school rules are strictly enforced	If a school rule is broken, students know what kind of punishment will follow
Total	0.48	0.65	0.59	0.57	0.54
Public	0.52	0.69	0.63	0.61	0.57
Catholic	1.03	2.06	1.76	1.30	1.33
Other private	1.27	2.39	2.26	2.35	1.92

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002).

Table B-59. Standard errors for figure 22 estimates (percentage of high school sophomores who agreed or strongly agreed with various statements about their school rules, by students' feelings of safety at school): 2002

			Punishment for	The	If a school rule is
	Everyone	The	breaking the	school	broken, students
	knows what	school	rules is the	rules are	know what kind
	the school	rules are	same no matter	strictly	of punishment
I feel unsafe at school	rules are	fair	who you are	enforced	will follow
Agreed/strongly agreed	1.45	1.55	1.64	1.52	1.54
Disagreed/ strongly					
disagreed	0.48	0.67	0.62	0.59	0.56

Table B–60. Standard errors for figure 23 estimates (percentage of high school sophomores who agreed or strongly agreed with various statements about reasons for going to school): 2002

Statement	Standard error
Education is important for getting a job later on	0.18
My parents expect me to succeed	0.25
I am learning skills that I will need for a job	0.38
School is a place to meet my friends	0.48
I get a feeling of satisfaction from doing what I am supposed to do in class	0.56
My teachers expect me to succeed	0.50
The subjects that I am taking are interesting and challenging	0.55
I play on a team or belong to a club	0.59
I have nothing better to do	0.54

Table B-61. Standard errors for figure 24 estimates (percentage of high school sophomores who agreed or strongly agreed with various statements about reasons for going to school, by selected racial/ethnic groups): 2002

					l get a		The		
			I am		feeling of		subjects		
		My	learning		satisfaction	My	that I am	I play on	
	Education	parents	skills that	School is	from doing	teachers	taking are	a team	I have
Racial/	is important	expect	l will	a place to	what I am	expect	interesting	or	nothing
ethnic	for getting a	me to	need for	meet my	supposed to	me to	and	belong	better
group	job later on	succeed	a job	friends	do in class	succeed	challenging	to a club	to do
Black	0.39	0.57	0.91	1.49	1.19	1.15	1.31	1.40	1.21
White	0.24	0.33	0.50	0.45	0.70	0.67	0.71	0.75	0.69

NOTE: All race categories exclude Hispanic.

Table B-62. Standard errors for figure 25 estimates (percentage of high school sophomores, by demonstrated reading proficiency): 2002

Reading proficiency	Standard error
Level 1 (simple comprehension)	0.39
Level 2 (simple inference)	0.70
Level 3 (complex inference)	0.28

Table B-63. Standard errors for figure 26 estimates (percentage of high school sophomores, by demonstrated mathematics proficiency): 2002

Mathematics proficiency	Standard error
Level 1 (simple operations: whole numbers)	0.30
Level 2 (simple operations: decimals, fractions, roots, and powers	0.77
Level 3 (simple problem solving)	0.81
Level 4 (understanding of intermediate concepts)	0.54
Level 5 (complex problem solving, advanced knowledge)	0.08

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002).

Table B-64. Standard errors for figure 27 estimates (percentage of high school sophomores who achieved level 2 reading proficiency [simple inference], by socioeconomic status [SES] and selected racial/ethnic group): 2002

Racial/ethnic group	Low SES	Middle SES	High SES
Black	1.17	1.31	2.95
Hispanic or Latino	1.25	1.58	2.70
White	1.32	0.78	0.93

NOTE: All race categories exclude Hispanic.

Table B-65. Standard errors for figure 28 estimates (percentage of high school sophomores who achieved level 4 mathematics proficiency [intermediate concepts], by socioeconomic status [SES] and selected racial/ethnic group): 2002

Racial/ethnic group	Low SES	Middle SES	High SES
Black	0.54	0.46	1.88
Hispanic or Latino	0.67	0.94	2.82
White	0.78	0.66	1.02

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002).

Table B-66. Standard errors for figure 29 estimates (percentage of high school sophomores who achieved level 2 reading proficiency [simple inference], by selected racial/ethnic groups within the highest educational expectations group): 2002

Racial/ethnic group	Expected to complete a 4-year degree or higher and reached level 2 reading proficiency
Black	1.34
Hispanic or Latino	1.46
White	0.70

NOTE: All race categories exclude Hispanic.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002).

Table B–67. Standard errors for figure 30 estimates (percentage of high school sophomores who achieved level 4 mathematics proficiency [intermediate concepts], by selected racial/ethnic groups within the highest educational expectations group): 2002

Racial/ethnic group	Expected to complete a 4-year degree or higher and reached level 4 mathematics proficiency
Black	0.64
Hispanic or Latino	0.98
White	0.72

NOTE: All race categories exclude Hispanic.

Table B–68. Standard errors for figure 31 estimates (percentage of high school sophomores who achieved level 2 reading proficiency [simple inference], by sex and selected racial/ethnic group): 2002

Racial/ethnic group	Female, and reached level 2 reading proficiency	Male and reached level 2 reading proficiency
Black	1.27	1.33
Hispanic or Latino	1.39	1.59
White	0.90	0.85

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education

Longitudinal Study of 2002 (ELS:2002).

Table B–69. Standard errors for figure 32 estimates (percentage of high school sophomores who achieved level 4 mathematics proficiency [intermediate concepts], by sex and selected racial/ethnic group): 2002

Racial/ethnic group	Female and reached level 4 mathematics proficiency	Male and reached level 4 mathematics proficiency
Black	0.60	0.60
Hispanic or Latino	0.78	1.01
White	0.80	0.77

NOTE: All race categories exclude Hispanic.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002).

Table B-70. Standard errors for figure 33 estimates (high school sophomores' educational expectations): 2002

Educational expectations	Standard error
High school or less	0.32
Some college	0.34
4-year college degree	0.46
Graduate/professional degree	0.57
Don't know	0.30

Table B-71. Standard errors for figure 34 estimates (high school sophomores' educational expectations, by selected racial/ethnic group and sex): 2002

Educational expectations	High school or less	Some college	4-year college degree	Graduate/ professional degree	Don't know
White male	0.57	0.57	0.89	0.85	0.50
White female	0.38	0.50	0.83	0.86	0.47
Black male	1.32	1.22	1.70	1.54	1.04
Black female	0.89	1.04	1.73	1.98	1.03
Hispanic or Latino male	1.36	1.43	1.87	1.38	1.24
Hispanic or Latina female	1.03	1.00	1.54	1.68	1.20

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002).

Table B-72. Standard errors for figure 35 estimates (high school sophomores' occupational expectations, by selected racial/ethnic group and sex): 2002

Educational expectations	Professional I	Professional II	Don't know
White male	0.89	0.65	0.86
White female	0.77	0.79	0.90
Black male	2.03	1.30	2.06
Black female	1.52	1.73	1.54
Hispanic or Latino male	1.40	1.18	2.19
Hispanic or Latina female	1.55	1.52	1.93

NOTE: All race categories exclude Hispanic.