## Related Behaviors and Characteristics

## EA 3.1 Family-Child Engagement in Literacy Activities

Numerous studies have documented the importance of parental involvement in literacy activities with their children. ${ }^{32}$ According to the National Center for Education Statistics, family participation in reading activities provides valuable development experiences for children. In addition to developing an interest in reading, children who are read to, told stories, and visit the library may start school better prepared to learn than other students. ${ }^{33}$

Table EA 3.1 presents three types of literacy activities that parents may engage in with their children. In 1999, a majority of 3 - to 5 -year-old children ( 54 percent) were read to by a parent or other family member every day. Fifty percent of children were regularly told stories in 1999 (three or more times a week), a substantial increase from 1991 levels ( 39 percent).
Differences by Race and Hispanic Origin. ${ }^{34}$ There are substantial differences in all literacy activities by race and Hispanic origin; for example, in 1999, White, non-Hispanic children were more likely to be read to every day ( 61 percent) than Black, non-Hispanic children (41 percent) or Hispanic children (33 percent). Similarly, White, non-Hispanic children (53 percent) were more likely to be told a story frequently than either Black, non-Hispanic or Hispanic children (45 and 40 percent respectively) (see Table EA 3.1). Also, more White, non-Hispanic children visited a library at least once in the past month in 1999 (39 percent) than either Black, non-Hispanic children (35 percent) or Hispanic children ( 25 percent). These differences have been fairly stable over time.

Differences by Poverty Status. Children in families living at or above the poverty threshold are much more likely to be engaged in literacy activities on a regular basis than are children who live in poverty; for example, in 1999, 58 percent of children in nonpoor families were read to every day by a parent or other family member, compared with 38 percent of children in poor families (see Figure EA 3.1). There are also substantial differences in literacy activities by mother's education level. For example, about one-fifth (18 percent) of children whose mothers did not have a high school diploma visited a library once or more in the past month, compared with 30 percent of children whose mothers had graduated high school and 50 percent whose mothers were college graduates (see Table EA 3.1).

Differences by Family Type. Children in two-parent families were more likely to participate in all three types of literacy activities than children who lived with one or no parent.

Differences by Mother's Employment Status. Children whose mothers were employed 35 hours or more per week were slightly less likely to engage in any of the three literacy activities than children whose mothers were either working part-time or not working.

[^0]
## Table EA 3.1

Percentage of 3-through 5 -year-olds ${ }^{\text {a }}$ in the United States who have participated in literacy activities with a family member, by child and family characteristics: Selected years, 1991-1999

|  | Read to every day ${ }^{\text {b }}$ |  |  |  | Told a story at least three times a week |  |  |  |  | Visited a library at least once in the past month |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1993 | 1995 | 1996 | 1999 | 1991 | 1993 | 1995 | 1996 | 1999 | 1991 | 1993 | 1995 | 1996 | 1999 |
| Total | 53 | 58 | 57 | 54 | 39 | 43 | 50 | 55 | 50 | 35 | 38 | 39 | 37 | 36 |
| Gender |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 51 | 57 | 56 | 52 | 37 | 43 | 49 | 55 | 49 | 34 | 38 | 37 | 37 | 35 |
| Female | 54 | 59 | 57 | 55 | 41 | 43 | 51 | 56 | 50 | 36 | 38 | 41 | 36 | 38 |
| Race and Hispanic origin ${ }^{c}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White, nonHispanic | 59 | 65 | 64 | 61 | 40 | 44 | 53 | 59 | 53 | 39 | 42 | 43 | 41 | 39 |
| Black, nonHispanic | 39 | 43 | 44 | 41 | 34 | 39 | 42 | 47 | 45 | 25 | 29 | 32 | 31 | 35 |
| Hispanic | 37 | 38 | 39 | 33 | 38 | 38 | 42 | 47 | 40 | 23 | 26 | 27 | 27 | 25 |
| Poverty status ${ }^{\text {d }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| At or above poverty | 56 | 62 | 61 | 58 | 39 | 44 | 53 | 58 | 52 | 38 | 42 | 43 | 41 | 40 |
| Below poverty | 44 | 48 | 46 | 38 | 38 | 39 | 44 | 49 | 42 | 26 | 29 | 30 | 28 | 24 |
| Family type ${ }^{\text {e }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Two parents | 55 | 61 | 61 | 58 | 39 | 44 | 52 | 59 | 52 | 38 | 41 | 43 | 40 | 40 |
| One or no parent | 46 | 49 | 46 | 43 | 37 | 41 | 46 | 47 | 44 | 23 | 30 | 30 | 29 | 29 |
| Mother's education level ${ }^{f}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Less than high school | 37 | 40 | 37 | 39 | 34 | 37 | 39 | 47 | 36 | 16 | 22 | 20 | 19 | 18 |
| High school | 48 | 48 | 49 | 45 | 38 | 41 | 48 | 54 | 48 | 29 | 31 | 33 | 31 | 30 |
| Some college | 57 | 64 | 62 | 53 | 41 | 45 | 53 | 55 | 52 | 40 | 44 | 42 | 41 | 40 |
| Graduated college | 71 | 76 | 77 | 71 | 42 | 48 | 55 | 64 | 55 | 55 | 55 | 57 | 56 | 50 |
| Mother's employment status ${ }^{e}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35 hrs or more/week | 52 | 55 | 54 | 49 | 37 | 43 | 49 | 53 | 48 | 30 | 34 | 35 | 32 | - |
| Less than 35 hrs/week | 56 | 63 | 59 | 56 | 40 | 45 | 53 | 56 | 55 | 41 | 47 | 46 | 39 | - |
| Not in labor force | 55 | 60 | 59 | 60 | 42 | 43 | 50 | 56 | 50 | 38 | 37 | 42 | 40 | 40 |

[^1]e Parents include any combination of a biological, adoptive, step-, and foster mother and/or father. No parents in the household indicates that the child is living with nonparent guardians (e.g., grandparents).
f Children without mothers in the home are not included in estimates dealing with mother's education or mother's employment status. A mother is defined as a biological mother, adoptive mother, stepmother, foster mother, or female guardian (e.g., grandmother) who resides in the home with the child.
Sources: U.S. Department of Education, National Center for Education Statistics, 1991, 1993, 1995, 1996, and 1999 National Household Education Survey (unpublished data); Tabulated by U.S. Department of Education, National Center for Education Statistics; Estimates of "read to every day" as published in America's Children: Key Indicators of Well-Being, 2001. Federal Interagency Forum on Child and Family Statistics, Washington, DC: U.S. Government Printing Office, (Table ED1).

Figure EA 3.1
Percentage of 3- through 5 -year-olds in the United States who have participated in literacy activities with a family member, by poverty status: 1999


Sources: U.S. Department of Education, National Center for Education Statistics, 1999 National Household Education Survey (unpublished data); Tabulated by U.S. Department of Education, National Center for Education Statistics; Estimates of "read to every day" as published in published in America's Children: Key National Indicators of Well-Being, 2001. Federal Interagency Forum on Child and Family Statistics, Washington, DC: U.S. Government Printing Office, (Table ED1).

EDUCATION AND ACHIEVEMENT

## Related Behaviors and Characteristics

## EA 3.2 Reading Habits of Children and Youth

Independent reading is one necessary aspect of literacy development. The National Assessment of Educational Progress (NAEP) has documented the association between students who read for fun in their free time and reading achievement. Students ages 9, 13, and 17 who read more frequently for fun had consistently higher average reading proficiency scores than those students who read less often. ${ }^{35}$

Table EA 3.2 presents the percentage of students who read for fun on a daily basis for three age groups ( $9-$ - 13 -, and 17 -year-olds).

Differences by Age. In 1999, over half of 9-year-olds (54 percent) reported reading for fun on a daily basis, compared with about one-third of 13 -year-olds ( 28 percent) and one-quarter of 17 -year-olds ( 25 percent) (see Table EA 3.2).

Differences by Gender. Among children ages 9 and 13, larger proportions of girls than boys reported frequent reading in their spare time. For example, more than half ( 63 percent) of 9 -year-old girls read for fun on a daily basis, compared with 45 percent of 9 -year-old boys, in 1999. Among 17-year-olds, however, similar proportions of boys ( 26 percent) and girls (24 percent) reported reading on a daily basis in 1999 (see Figure EA 3.2).
Differences by Race and Hispanic Origin. ${ }^{36}$ In 1999, the percentage of 9-, 13-, and 17-year-olds who reported reading for fun on a daily basis was similar for all racial/ethnic groups (see Table EA 3.2).
Differences by Parents' Education Level. ${ }^{37}$ In 1999, 13-year-olds whose better-educated parent had some education after high school were more likely to read for fun than students whose parent(s) had no education beyond high school (see Table EA 3.2). A similar pattern is found among 17-year-olds; for example, in 1999, 32 percent of 17 -year-olds whose better-educated parent had graduated from college read for fun on a daily basis. In contrast, 12 percent of 17 -year-olds whose parent(s) had graduated from high school (but had no education beyond that) and 13 percent whose parent(s) had not finished high school reported reading for fun on a daily basis (see Table EA 3.2).

Differences by Type of School. Larger percentages of 13- and 17-year-olds who attended nonpublic schools read for fun on a daily basis than did their counterparts in public schools (see Table EA 3.2). Among 9-year-olds, a larger percentage of public school students reported reading for fun in 1992 and 1994, but this pattern reversed in 1996 and is now equal in 1999 (see Table EA 3.2).

[^2]
## Table EA 3.2

Percentage of students ages 9,13 , and 17 in the United States who read for fun on a daily basis, by gender, race and Hispanic origin, ' parents' education level, , and type of school: Selected years, 1992-1999

|  | Age 9 |  |  |  | Age 13 |  |  |  | Age 17 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1992 | 1994 | 1996 | 1999 | 1992 | 1994 | 1996 | 1999 | 1992 | 1994 | 1996 | 1999 |
| Total | 56 | 58 | 54 | 54 | 37 | 32 | 32 | 28 | 27 | 30 | 23 | 25 |
| Gender |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 48 | 49 | 51 | 45 | 30 | 25 | 27 | 23 | 23 | 29 | 22 | 26 |
| Female | 64 | 66 | 57 | 63 | 44 | 39 | 38 | 34 | 30 | 30 | 24 | 24 |
| Race and Hispanic origin ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| White, non-Hispanic | 57 | 58 | 54 | 52 | 37 | 38 | 33 | 25 | 29 | 34 | 24 | 25 |
| Black, non-Hispanic | 54 | 58 | 51 | 57 | 35 | 18 | 29 | 22 | 14 | 16 | 21 | 22 |
| Hispanic | 54 | 58 | 56 | 55 | 44 | 15 | 28 | 28 | 25 | 17 | 21 | 28 |
| Parents' education level ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| Less than high school | - | - | - | - | 16 | 24 | 29 | 31 | 23 | 15 | 14 | 13 |
| High school | - | - | - | - | 33 | 28 | 28 | 21 | 16 | 25 | 18 | 12 |
| Some college | - | - | - | - | 37 | 40 | 41 | 31 | 28 | 30 | 22 | 33 |
| Graduated college | - | - | - | - | 44 | 37 | 34 | 33 | 35 | 36 | 28 | 32 |
| Type of school |  |  |  |  |  |  |  |  |  |  |  |  |
| Public | 57 | 57 | 54 | 55 | 36 | 31 | 33 | 28 | 26 | 29 | 21 | 24 |
| Nonpublic | 52 | 54 | 61 | 55 | 49 | 40 | 36 | 42 | 44 | 46 | 28 | 48 |

a Persons of Hispanic origin may be of any race.
b Parents' education level refers to the highest level of education completed by either parent.
Source: U.S. Department of Education, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1992, 1994, 1996, and 1999 Long-Term Trends, Reading Assessment, unpublished data. Tabulated by U.S. Department of Education, National Center for Education Statistics.

Figure EA 3.2
Percentage of students ages 9, 13, and 17 in the United States who read for fun on a daily basis, by gender: 1999


#### Abstract



Source: U.S. Department of Education, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1992, 1994, 1996, and 1999 Long-Term Trends, Reading Assessment, unpublished data. Tabulated by U.S. Department of Education, National Center for Education Statistics.


EDUCATION AND ACHIEVEMENT

## Related Behaviors and Characteristics

## EA 3.3 Parental Involvement in Child's School

Many educators consider parental involvement in school activities to have a beneficial effect on children's school performance. They associate higher levels of parental involvement with greater monitoring of school and classroom activities, a closer coordination of teacher and parent efforts, greater teacher attention to the child, and earlier identification of problems that might inhibit learning. ${ }^{38}$ Parental involvement of both mothers and fathers in their child's school is significantly associated with an increased likelihood of 1stthrough 12th-grade children earning mostly A's and with a reduced likelihood that these children will ever repeat a grade. ${ }^{39}$ Possible parental activities included in the following data are (1) attending general school meetings, (2) going to a regularly scheduled parent/teacher conference, (3) attending a school or class event such as a play or sports event, and (4) volunteering at the school or serving on a school committee. ${ }^{40}$

Differences by Grade. The level of parental involvement in school activities decreases substantially as children get older. For example, 68 percent of children in grades 3 through 5 had parents who were classified as highly involved in their children's schools. However, by grades 9 through 12, 40 percent of children had highly involved parents.
Differences by Race and Hispanic Origin. ${ }^{41}$ Parents of White, non-Hispanic children were more likely than parents of Black, non-Hispanic or Hispanic children to be highly involved in their children's schools at each grade level (see Table EA 3.3).

Differences by Poverty Status. Children living in nonpoor households were much more likely to have highly involved parents than children living in poor households, at all grade levels. Children whose mothers had higher levels of education had more highly involved parents than children whose mothers had lower education levels, at all grades (see Table EA 3.3).

Differences by Family Type. Children in two-parent families were more likely than children in single-parent families to have parents who were highly involved in school activities. Furthermore, among children in two-parent families, mothers were more likely to be highly involved than fathers. For example, in 1999, about half of students in grades 6 through 8 had highly involved mothers, but only one-quarter had highly involved fathers. Furthermore, children in single-mother families were somewhat less likely to have highly involved mothers than comparable children in two-parent families. However, children in single-father families were more likely to have a highly involved father than comparable children in two-parent families.

Differences by Mother's Employment Status. Children in grades 3 through 8 whose mothers worked part-time had more highly involved parents than students whose mothers either worked full-time or who were not in the labor force. (see Table EA 3.3).

[^3]Table EA 3.3
Percentage of children in the United States whose parents are involved in their schools, by level of involvement, a grade, and child and family characteristics: 1999

|  | Low Involvement |  |  | Moderate Involvement |  |  | High Involvement |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Grades } \\ 3-5 \end{gathered}$ | $\begin{gathered} \text { Grades } \\ 6-8 \end{gathered}$ | $\begin{gathered} \text { Grades } \\ 9-12 \end{gathered}$ | Grades $3-5$ | Grades 6-8 | $\begin{gathered} \text { Grades } \\ 9-12 \end{gathered}$ | Grades $3-5$ | Grades $6-8$ | $\begin{array}{r} \text { Grades } \\ 9-12 \end{array}$ |
| Total | 13 | 21 | 35 | 19 | 26 | 26 | 68 | 54 | 40 |
| Gender |  |  |  |  |  |  |  |  |  |
| Male | 14 | 21 | 36 | 19 | 26 | 25 | 67 | 54 | 39 |
| Female | 11 | 20 | 34 | 19 | 25 | 26 | 70 | 55 | 40 |
| Race and Hispanic origin ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |
| White, non-Hispanic | 10 | 17 | 31 | 16 | 25 | 26 | 74 | 58 | 43 |
| Black, non-Hispanic | 19 | 27 | 40 | 24 | 28 | 26 | 58 | 45 | 34 |
| Hispanic | 20 | 31 | 49 | 23 | 26 | 24 | 57 | 43 | 27 |
| Poverty status |  |  |  |  |  |  |  |  |  |
| At or above poverty | 10 | 17 | 32 | 17 | 25 | 26 | 73 | 59 | 43 |
| Below poverty | 21 | 35 | 48 | 27 | 29 | 25 | 53 | 36 | 26 |
| Family type ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |
| Two parents | 10 | 17 | 31 | 17 | 24 | 25 | 73 | 59 | 45 |
| Mother | 14 | 21 | 36 | 18 | 27 | 24 | 68 | 52 | 41 |
| Father | 40 | 47 | 55 | 26 | 25 | 21 | 34 | 29 | 24 |
| One or no parent | 18 | 28 | 43 | 24 | 28 | 27 | 59 | 44 | 30 |
| Mother-only | 17 | 29 | 42 | 22 | 28 | 28 | 61 | 44 | 30 |
| Father-only | 18 | 22 | 38 | 25 | 28 | 25 | 57 | 50 | 37 |
| Nonparent guardian(s) | 24 | 26 | 51 | 32 | 31 | 28 | 44 | 44 | 21 |
| Mother's education level ${ }^{\text {d }}$ |  |  |  |  |  |  |  |  |  |
| Less than high school | 27 | 38 | 58 | 30 | 28 | 26 | 44 | 34 | 16 |
| High school | 17 | 24 | 41 | 21 | 28 | 25 | 62 | 48 | 35 |
| Some college | 9 | 19 | 34 | 17 | 28 | 25 | 74 | 54 | 41 |
| College graduate | 6 | 11 | 20 | 13 | 18 | 27 | 81 | 71 | 53 |
| Mother's employment status ${ }^{\text {d }}$ |  |  |  |  |  |  |  |  |  |
| 35 hours or more/week | 12 | 19 | 34 | 22 | 26 | 27 | 66 | 55 | 39 |
| Less than 35 hours /week | 8 | 18 | 30 | 16 | 24 | 24 | 76 | 59 | 46 |
| Not in labor force | 16 | 26 | 40 | 15 | 25 | 23 | 69 | 49 | 36 |

a Low involvement $=$ involvement in 0 or 1 activity. Moderate involvement $=2$ activities. High involvement $=3$ or more activities Possible activities include (1) attending general school meetings, (2) going to a regularly scheduled parent-teacher conference, (3) attending a school or class event, and (4) volunteering at the school or serving on a school committee.
b Persons of Hispanic origin may be of any race.
c Parents include any combination of a biological, adoptive, step-, and foster mother and/or father. No parents in the household indicates that the child is living with nonparent guardians (e.g., grandparents). Estimates for single parent households may include involvement of other adults living in the household.
d Children without mothers in the home are not included in estimates of mother's education or mother's employment status. A mother is defined as a biological mother, adoptive mother, stepmother, foster mother, or female guardian (e.g., grandmother) who resides in the home with the child.
Source: U.S. Department of Education, National Center for Education Statistics, 1999 National Household Education Survey.
Tabulated by U.S. Department of Education, National Center for Education Statistics (unpublished).

Figure EA 3.3
Percentage of parental involvementa in child's school activities by grade level, in the United States: 1999

${ }^{\text {a }}$ Low involvement $=$ involvement in 0 or 1 activity. Moderate involvement $=$ involvement in 2 activities. High involvement $=$ involvement in 3 or more activities. Possible activities include (1) attending general school meetings, (2) going to a regularly scheduled parent-teacher conference, (3) attending a school or class event, and (4) volunteering at the school or serving on a school committee.
Source: U.S. Department of Education, National Center for Education Statistics, 1999 National Household Education Survey. Tabulated by U.S. Department of Education, National Center for Education Statistics (unpublished).

EDUCATION AND ACHIEVEMENT

## EA 3.4 Difficulty Speaking English

Difficulty speaking English may limit children's educational progress and their future employment prospects. Children may also need special instruction in school to improve their English. Difficulty speaking English is most common among immigrant children and U.S.-born children of immigrants. In the past three decades, the great majority of immigrants to the United States have come from Asia, Latin America, and the Caribbean.
In 1999, of the 8.8 million children ages 5 through 17 in the United States who spoke a language other than English at home, 2.6 million had difficulty speaking English. While the proportion of all children experiencing difficulty speaking English doubled between 1979 and 1999, this group constituted only 5 percent of the total population of children ages 5 through 17 in 1999 (see Table EA 3.4).
Differences by Race and Hispanic Origin. ${ }^{42}$ Children of Hispanic or "other" ethnic origin are more likely than Black, non-Hispanic or White, non-Hispanic children to have difficulty speaking English. These differences are due in part to the fact that Hispanic and Asian children are more likely than Whites or Blacks to speak another language in the home. For example, 3.9 percent of White, non-Hispanic children ages 5-17 speak another language in the home, compared to 70.9 percent of Hispanic children (see Table EA 3.4).

Differences by Region. The percentage of children who speak another language at home varies substantially by geographic region, ranging from 7.5 percent in the Midwest to 28.8 percent in the West in 1999. Further, in the West, more than 10 percent of children have difficulty speaking English, compared to 2 percent in the Midwest.

[^4]
## Figure EA 3.4

Percentage of children ages 5 through 17 in the United States who speak a language other than English at home and who are reported to have difficulty speaking English," by race and Hispanic origin:b 1999

a Parents were asked if their child spoke a language other than English at home and how well the child could speak English. Categories used for reporting were "Very well," "Well," "Not well," and "Not at all." All children who were reported to speak below the level of "Very well" were considered to have difficulty speaking English.
${ }^{\mathrm{b}}$ Persons of Hispanic origin may be of any race.
Source: U.S. Department of Education, National Center for Education Statistics. Tabulations based on October 1992, 1995, and 1999 and November 1979 and 1989 Current Population Surveys, U.S. Bureau of the Census. As published in As published in America's Children: Key National Indicators of Well-Being, 2001. Washington, DC: U.S. Government Printing Office, (Table POP4).

## Related Behaviors and Characteristics

## Table EA 3.4

Children ages 5 to 17 who speak a language other than English at home, and who have difficulty speaking English, a by race and Hispanic origin and by region: Selected years, 1979-1999

|  | 1979 | 1989 | 1992 | $1995{ }^{\text {b }}$ | 1999 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Number of children who speak another language at home (in millions) | 3.8 | 5.3 | 6.4 | 6.7 | 8.8 |
| Percentage of children ages 5-17 | 8.5 | 12.6 | 14.2 | 14.1 | 16.7 |
| Race and Hispanic origin ${ }^{\text {c }}$ |  |  |  |  |  |
| White, non-Hispanic | 3.2 | 3.5 | 3.7 | 3.6 | 3.9 |
| Black, non-Hispanic | 1.3 | 2.4 | 4.2 | 3.0 | 4.5 |
| Hispanic | 75.1 | 71.2 | 76.6 | 73.9 | 70.9 |
| Other, non-Hispanic | 44.1 | 53.4 | 58.3 | 45.5 | 51.0 |
| Region ${ }^{\text {d }}$ |  |  |  |  |  |
| Northeast | 10.5 | 13.5 | 16.2 | 15.1 | 17.7 |
| Midwest | 3.7 | 4.9 | 5.6 | 5.9 | 7.5 |
| South | 6.8 | 10.7 | 11.1 | 11.7 | 14.3 |
| West | 17.0 | 24.2 | 27.2 | 26.4 | 28.8 |
| Number of children who have difficulty speaking English (in millions) | 1.3 | 1.9 | 2.2 | 2.4 | 2.6 |
| Percentage of children ages 5-17 | 2.8 | 4.4 | 4.9 | 5.1 | 5.0 |
| Race and Hispanic origin ${ }^{\text {c }}$ |  |  |  |  |  |
| White, non-Hispanic | 0.5 | 0.8 | 0.6 | 0.7 | 1.0 |
| Black, non-Hispanic | 0.3 | 0.5 | 1.3 | 0.9 | 1.0 |
| Hispanic | 28.7 | 27.4 | 29.9 | 31.0 | 23.4 |
| Other, non-Hispanic | 19.8 | 20.4 | 21.0 | 14.1 | 11.7 |
| Region ${ }^{\text {d }}$ |  |  |  |  |  |
| Northeast | 2.9 | 4.8 | 5.3 | 5.0 | 4.4 |
| Midwest | 1.1 | 1.3 | 1.6 | 2.3 | 2.0 |
| South | 2.2 | 3.8 | 3.5 | 3.4 | 3.6 |
| West | 6.5 | 8.8 | 10.4 | 11.4 | 10.6 |
| Percentage of children speaking another lanugage at home who have difficulty speaking English | 32.7\% | 35.0\% | 34.2\% | 36.5\% | 29.5\% |
| Race and Hispanic origin ${ }^{\text {c }}$ |  |  |  |  |  |
| White, non-Hispanic | 15.6 | 22.9 | 16.2 | 19.4 | 25.6 |
| Black, non-Hispanic | 23.1 | 20.8 | 31.0 | 30.0 | 22.2 |
| Hispanic | 38.2 | 38.5 | 39.0 | 41.9 | 33.0 |
| Other, non-Hispanic | 44.9 | 38.2 | 36.0 | 31.0 | 22.9 |

## Table EA 3.4 continued

Children ages 5 to 17 who speak a language other than English at home, and who have difficulty speaking English, ${ }^{\text {a by race }}$ and Hispanic origin and by region: Selected years, 1979-1999

|  | 1979 | 1989 | 1992 | $1995^{\mathrm{b}}$ | 1999 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Region $^{\text {d }}$ |  |  |  |  |  |
| $\quad$ Northeast | 27.6 | 35.6 | 32.7 | 33.1 | 24.8 |
| Midwest | 29.7 | 26.5 | 28.6 | 38.9 | 26.7 |
| South | 32.3 | 35.5 | 31.5 | 29.1 | 25.2 |
| West | 38.2 | 36.4 | 38.2 | 43.2 | 36.5 |

a Respondents were asked if the children in the household spoke a language other than English at home and how well they could speak English. Categories used for reporting were "Very well," "Well," "Not well," and "Not at all." All those reported to speak English less than "Very well" were considered to have difficulty speaking English.
${ }^{\mathrm{b}}$ Numbers in this year may reflect changes in the Current Population Survey because of newly instituted computer-assisted interviewing techniques and/or because of the change in the population controls to the 1990 Census-based estimates, with adjustments.
c Persons of Hispanic origin may be of any race.
${ }^{\text {d }}$ Regions: Northeast includes CT, ME, MA, NH, NJ, NY, PA, RI, and VT. Midwest includes IL, IN, IA, KS, MI, MN, MO, NE, ND, OH, SD, and WI. South includes AL, AR, DE, DC FL, GA, KY, LA, MD, MS, NC, OK, SC, TN, TX, VA, and WV. West includes AK, AZ, CA, CO, HI, ID, MT, NV, NM, OR, UT, WA, and WY.
Source: U.S. Department of Education, National Center for Education Statistics. Tabulations based on October 1992, 1995, and 1999 and November 1979 and 1989 Current Population Surveys, U.S. Bureau of the Census. As published in America's Children: Key Indicators of Well-Being 2001, Washington, DC: U.S. Government Printing Office. (Table POP4).

## Related Behaviors and Characteristics

## EA 3.5 Student Computer Use

Computer literacy has become increasingly important for success in the workplace. Computers have become an essential tool for retrieving and manipulating information, for producing reports, and for communicating with colleagues. The extent to which children have access to computers, and the uses children make of computers, may be an indicator of how well prepared students will be to enter an increasingly technological workplace.

The percentage of 4th, 8th, and 12th graders who reported using a computer for schoolwork 1-2 times a week increased substantially between 1992 and 1998 (see Table EA 3.5.A). For example, 14 percent of 12th graders reported using a computer at school 1-2 times a week in 1992, compared with 28 percent in 1998.

Differences by Grade. Computer usage for schoolwork appears to increase as students enter the higher grades. For example, in 1998, 8 percent of 4th graders reported using a computer every day for schoolwork, while 21 percent of 12 th graders reported the same.
Differences by Family Income. ${ }^{43}$ Data from the Current Population Survey indicate that students from high-income families were more likely than students from middle- and lowincome families to report using a computer at home or at school (see Table EA 3.5.B). However, family income appears to have a stronger impact on children's exposure to computers at home than at school. For example, in 1997, the rate of computer usage at home was 15 percent for students in grades 7-12 from low-income families, compared with 79 percent for students from high-income families in the same grades. The corresponding computer usage rates at school were 68 percent and 75 percent for students in grades 7-12 from low-income and high-income families, respectively (see Table EA 3.5.B).

[^5]Table EA 3.5.A
Percentage of students who reported using a computer for schoolwork, by grade and frequency of use: Selected years, 1992-2000

| Frequency of use | Grade 4 |  |  |  | Grade 8 |  |  | Grade 12 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1992 | 1994 | 1998 | 2000 | 1992 | 1994 | 1998 | 1992 | 1994 | 1998 |
| Never | 67 | 60 | 54 | 57 | 58 | 51 | 32 | 45 | 37 | 22 |
| Ever | 33 | 40 | 46 | 43 | 42 | 49 | 68 | 55 | 63 | 78 |
| 1-2 times/week | 17 | 21 | 20 | 17 | 14 | 16 | 25 | 14 | 18 | 28 |
| 1-2 times/month | 10 | 11 | 18 | 17 | 20 | 23 | 29 | 22 | 26 | 30 |
| Every day | 6 | 9 | 8 | 8 | 8 | 10 | 15 | 18 | 18 | 21 |

Source: U.S. Department of Education, National Center for Education Statistics, 1999. National Assessment of Educational Progress. Washington, DC: U.S. Government Printing Office.

## Table EA 3.5.B

Percentage of students who reported using a computer at school or at home, by grade level and family income: Selected years, 1984-1997

| Location of Computer | Income Levela |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total |  |  |  | Low |  |  |  | Middle |  |  |  | High |  |  |  |
|  | 1984 | 1989 | 1993 | 1997 | 1984 | 1989 | 1993 | 1997 | 1984 | 1989 | 1993 | 1997 | 1984 | 1989 | 1993 | 1997 |
| Grades 1-6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Home | 11.8 | 16.1 | 23.0 | 41.3 | 2.5 | 3.2 | 3.9 | 12.4 | 9.7 | 13.1 | 18.0 | 36.4 | 24.4 | 33.6 | 48.5 | 74.6 |
| School | 30.5 | 52.4 | 66.6 | 79.1 | 18.5 | 39.4 | 57.4 | 70.9 | 29.5 | 52.3 | 66.2 | 78.6 | 42.2 | 62.5 | 74.0 | 86.5 |
| Home or school | 36.2 | 56.9 | 70.7 | 83.8 | 20.0 | 40.5 | 58.1 | 71.9 | 34.5 | 56.3 | 69.5 | 82.8 | 53.0 | 70.9 | 82.4 | 95.0 |
| Grades 7-12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Home | 13.4 | 21.1 | 27.7 | 49.2 | 3.3 | 5.7 | 5.6 | 14.9 | 10.1 | 17.0 | 22.2 | 44.2 | 24.8 | 38.3 | 51.2 | 78.6 |
| School | 28.9 | 43.0 | 57.0 | 73.5 | 20.0 | 36.7 | 49.0 | 67.6 | 28.4 | 42.6 | 57.3 | 74.1 | 34.1 | 47.2 | 60.7 | 75.4 |
| Home or school | 36.2 | 52.1 | 65.6 | 84.3 | 22.2 | 39.0 | 50.4 | 70.7 | 33.6 | 49.9 | 64.1 | 83.5 | 48.1 | 63.9 | 77.0 | 93.3 |

${ }^{\text {a }}$ Low income is the bottom 20 percent of all family incomes; high income is the top 20 percent of all family incomes; and middle income is the 60 percent in between.
Source: U.S. Department of Education, National Center for Education Statistics. 2000. The Condition of Education 1999, Washington, DC: U.S. Government Printing Office.

## Related Behaviors and Characteristics

Figure EA 3.5.A
Percentage of students in grades $7-12$ who reported using a computer at home, by family income: ${ }^{\text {a }}$ 1984, 1989, 1993, and 1997


[^6]
[^0]:    32 Hannon, P. and Weinberger, J., 1990. Parent Involvement in Preschool Literacy Development. Pages presented at the Annual Convention of the International Reading Association. Atlanta, GA. Hannon, P., 1995. Home and School: Research and Practice in Teaching Literacy with Parents. Bristol, PA: Falmer Press.
    ${ }^{33}$ U.S. Department of Education, National Center for Education Statistics. 1999. The Condition of Education. NCES 1999022. Washington, DC.
    ${ }^{34}$ Persons of Hispanic origin may be of any race.

[^1]:    a Estimates are based on children who have yet to enter kindergarten.
    b No data for 1991.
    c Persons of Hispanic origin may be of any race.

[^2]:    ${ }^{35}$ Campbell, Voelkl, and Donahue. 1997, p. 141.
    ${ }^{36}$ Persons of Hispanic origin may be of any race.
    ${ }^{37}$ Parents' education level refers to the highest level of education completed by either parent.

[^3]:    38 Zill, N., and Nord, C.W. 1994. Running in Place: How American Families Are Faring in a Changing Economy and Individualistic Society. Washington, DC.
    ${ }^{39}$ Nord, C.W., Brimhall, D., and West, J. 1997. Fathers' Involvement in Their Children's Schools. NCES 98-091. Washington, DC: National Center for Education Statistics.
    40 The level of involvement depends on the number of different activities reported by the parents, ranging from 0 or 1 (low involvement) to 2 (moderate involvement) to 3 or more activities (high involvement). Note that the total number of times that the parent has been involved in each activity was not measured.
    ${ }^{41}$ Persons of Hispanic origin may be of any race.

[^4]:    42 Persons of Hispanic origin may be of any race.

[^5]:    ${ }^{43}$ Low income is the bottom 20 percent of all family incomes; high income is the top 20 percent of all family incomes; and middle income is the 60 percent in between.

[^6]:    ${ }^{\text {a }}$ Low income is the bottom 20 percent of all family incomes; high income is the top 20 percent of all family incomes; and middle income is the 60 percent in between.
    Source: U.S. Department of Education, National Center for Education Statistics. 2000. The Condition of Education 1999, Washington, DC: U.S. Government Printing Office.

