

# WEB TABLES

U.S. DEPARTMENT OF EDUCATION  
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## Homeschooling in the United States: Results from the 2012 and 2016 Parent and Family Involvement Survey (PFI-NHES: 2012 and 2016)

This document reports data from the Parent and Family Involvement Survey in Education Survey (PFI) of the 2012 and 2016 National Household Education Surveys Program (NHES).<sup>1</sup> The Web Tables show data on homeschooling in the United States, including percentage homeschooled; reasons for homeschooling; providers of homeschool instruction (including virtual instruction and schools); teaching style and curriculum source; subjects taught; and homeschool activities. Estimates include responses by student, family, and parent characteristics (i.e., student's homeschool status, age, sex, race/ethnicity, homeschool grade equivalent, disability status, highest level of education, labor force status, poverty status, and household locale).

**Table 1** provides the number and percentage distribution of homeschooled students, by selected student and family characteristics.

**Table 2** shows the reasons parents gave as important and most important for homeschooling, by locale.

**Tables 3 and 4** present providers of homeschool instruction.

**Figures 1–3** display the amount of time homeschooled students are attending public school, private school, college, or are homeschooled.

**Table 5** provides the percentage of homeschooled students and members of the student's family participating in various homeschool activities.

**Figure 4** displays the number of times households participated in local homeschool group activities from September 2015 to 2016.

**Table 6** presents the percentage of homeschooled students by homeschool teaching style and source of curriculum and books.

**Table 7** provides the percentage of homeschooled students who take online courses by provider type and percent who pay for this online instruction.

**Tables 8 and 9** show subject areas that homeschooled students had been taught as of 2016 and subjects that they were being taught during home instruction in 2016, by sex.

**Table 10** examines parents' expectations for students' future education and also examines students' participation in selected home learning activities, comparing students by homeschooled or school enrollment status.

Previous data and reports about homeschooling using the NHES are available at <http://nces.ed.gov/nhes/>.

### DATA

The PFI collects data about students who are enrolled in kindergarten through grade 12 or are homeschooled for equivalent grades and asks questions about various aspects of parent involvement in education, such as help with homework, family activities, and parent involvement at school, such as attending a school or class event. For homeschooled students, the survey asks questions related to students' homeschooling experiences, the sources of the curriculum, and the reasons for homeschooling. The PFI was conducted in 1996, 1999, 2003, 2007, 2012, and 2016 as part of the NHES. Sampled households are selected for the NHES using a two-phase, stratified sample. A screener survey is used to select an eligible sample member for the PFI, who is a child or youth age 20 or younger who is enrolled in kindergarten through 12th grade in a public or private school or who is being homeschooled for the equivalent grades.

The NHES:2016 and NHES:2012 data collection used an address-based sample to select households. Sampled households were contacted through mail with a request to complete the survey by mail with paper questionnaires. In the NHES:2016, a subsample of 35,000 addresses was selected for a web experiment; web experiment addresses were mailed a request to complete the survey online. In both 2012 and 2016, survey contact materials were available in English and Spanish. In 2012, data collection took place between January and August of 2012. In 2016, data collection took place between January and September of 2016.

In 2012, approximately 159,994 sampled households were selected to participate in the NHES, and 99,426 completed the screener survey. Of the households who completed the screener survey, 22,123 were sampled for the PFI. The total number of completed PFI surveys was 17,563.

In 2016, approximately 206,000 sampled households were selected to participate in the NHES, and 115,342 completed the screener survey. Of the households who completed the screener survey, 18,723 were sampled for the PFI. The total number of completed PFI surveys was 14,075.

Based upon screener responses to questions about children's enrollment, households received either a PFI-Enrolled questionnaire for a sampled child attending a school or a PFI-Homeschooled questionnaire for a sampled child being homeschooled for some or all subject areas. Among all PFI respondents, 17,216 households completed the PFI-Enrolled questionnaire, and 347 households completed the PFI-Homeschooled questionnaire in 2012. In 2016, NHES oversampled homeschooled children; and 13,523 households completed the PFI-Enrolled questionnaire while 552 completed the PFI-Homeschooled questionnaire.

In 2012 and 2016, there were households who indicated on the screener questionnaire that the sampled child was enrolled in school and

completed the PFI-Enrolled questionnaire but indicated on the PFI-Enrolled questionnaire that the student was homeschooled. Because these respondents were completing the PFI-Enrolled questionnaire, they were not asked the detailed questions about the students' homeschooling experience and activities that are on the PFI-Homeschooled questionnaire. These students, therefore, are included in the homeschool estimates in tables 1 and 10, but are not included in the remaining tables in this report that focus on items that appeared only on the PFI-Homeschooled questionnaire. These students also appear in the 2016 homeschool estimates in table 2 but not the 2012 homeschool estimates in table 2, because the 2012 PFI-Enrolled questionnaire did not ask which grades students were homeschooled and reasons for homeschooling.

Homeschool students in this report are defined as school-age children (ages 5-17) who receive instruction at home instead of at a public or private school either all or most of the time. The tables and figures exclude students who were enrolled in public or private school more than 25 hours per week and students who were homeschooled only because of temporary illness.

The survey data file used to produce the PFI estimates, as well as the PFI questionnaires, are available for download at <https://nces.ed.gov/nhes/dataproducts.asp>. The final data files are available in multiple software formats and contain variables collected in the PFI.

The statistical programs used to calculate the population estimates, percentages, and standard errors for the Web Tables and Figures were programmed in STATA 14.2. Nationally representative estimates were computed using WEIGHT variable FPWT. The specific procedure used for computing sampling errors was a jackknife replication method (JACKWGHTS variables FPWT1-FPWT80).

For more information about PFI 2012 and PFI 2016 methodology, see the following reports:

- *National Household Education Surveys Program of 2012: Data File User's Manual*  
<https://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2015030>
- *National Household Education Surveys Program of 2016: Data File User's Manual*  
<https://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2018100>

## Response rates

Because the PFI survey was mailed to households after they responded to the screener questionnaire, the unit response rate for the PFI reflects both the household screener response rate (73.5 percent in 2012 and 66.4 percent in 2016) and the PFI response rate (78.4 percent in 2012 and 74.3 percent in 2016). The overall weighted PFI unit response rate (calculated by multiplying the household screener response rate by the PFI response rate) was 57.6 percent in 2012 and 49.3 percent in 2016.

Furthermore, as in most surveys, some individuals did not give a response to every item. However, individual item response rates for the 2012 and 2016 PFI were high—the unweighted item response rates for all respondents on almost all items included in this report exceeded 85 percent.<sup>2</sup>

NCES requires that any stage of data collection within a survey that has a base-weighted response rate of less than 85 percent be evaluated for nonresponse bias before the data or any analyses are released. For the 2012 and 2016 NHES, additional analysis was conducted to look for evidence of bias. The unit nonresponse bias analysis takes into account nonresponse on both the screener survey and the PFI. Results of all analyses suggest that there are a small number of demographic characteristics that are underrepresented in the NHES survey but are ameliorated with nonresponse weighting adjustments. Chapter 10 of both 2012 and 2016 data file user's manual contains a detailed description of the nonresponse bias analysis (National Household Education Surveys Program of 2012: Data File User's Manual (McPhee et al., 2015) and National Household Education Surveys Program of 2016: Data

File User's Manual (McPhee et al., 2018)).

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For readers with disabilities, a Section 508-compliant version of these Web Tables is available at <https://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2020001>.

## REFERENCES

- Geverdt, D. (2015). *Education Demographic and Geographic Estimates Program (EDGE): Locale Boundaries User's Manual* (NCES 2016-012). U.S. Department of Education. Washington, DC: National Center for Education Statistics. Retrieved March 27, 2019, from [https://nces.ed.gov/programs/edge/docs/NCES\\_LOCALE\\_USERSMANUAL\\_2016\\_012.pdf](https://nces.ed.gov/programs/edge/docs/NCES_LOCALE_USERSMANUAL_2016_012.pdf)
- McPhee, C., Bielick, S., Masterton, M., Flores, L., Parmer, R., Amchin, S., Stern, S., and McGowan, H. (2015). *National Household Education Surveys Program of 2012: Data File User's Manual* (NCES 2015-030). National Center for Education Statistics, Institute of Education Sciences, U.S. Department of Education. Washington, DC
- McPhee, C., Jackson, M., Bielick, S., Masterton, M., Battle, D., McQuiggan, M., Payri, M., Cox, C., and Medway, R. (2018). *National Household Education Surveys Program of 2016: Data File User's Manual* (NCES 2018-100). National Center for Education Statistics, Institute of Education Sciences, U.S. Department of Education. Washington, DC.

## VARIABLES USED

The variables used in these Web Tables are listed below. See the NHES:2016 PFI Public-use Codebook at [https://nces.ed.gov/nhes/data/2016/pfi/cbook\\_pfi\\_pu.pdf](https://nces.ed.gov/nhes/data/2016/pfi/cbook_pfi_pu.pdf) and the NHES:2016 Data File Users' Manual at <https://nces.ed.gov/pubs2018/2018100.pdf>; and the NHES:2012 PFI Public-use Codebook at [https://nces.ed.gov/nhes/pdf/userman/NHES\\_2012\\_pfi\\_codebook.pdf](https://nces.ed.gov/nhes/pdf/userman/NHES_2012_pfi_codebook.pdf) and the NHES:2012 Data File User's Manual at [https://nces.ed.gov/nhes/pdf/userman/NHES\\_2012\\_UsersManual.pdf](https://nces.ed.gov/nhes/pdf/userman/NHES_2012_UsersManual.pdf) to view detailed information on question wording for variables coming directly from the PFI questionnaire, how variables were constructed, and their sources.

Label	Name
2012 and 2016 Variables	
Age of child as of Dec 31, 2015	AGE2015 <sup>1</sup>
Homeschooled for some classes or subjects	HOMESCHLX
Child is homeschooled part or full time	HMSCHLX <sup>2</sup>
Child's sex	CSEX
Detailed race and ethnicity of child	RACEETH2
Child's enrollment and grade equivalent	ALLGRADEX
Child currently has disability	DISABLTXX
Parent/guardian highest education	PARGRADEX
Total people in household	HHTOTALX
Total income	TTLHHINC
Parents or guardians in household including same sex parents/partners	HHPARN16_BRD
Survey path	QTYPE
How much homeschooling	HMSCHARR
Work status of child's parent or guardian	PAR1EMPL
Work status of child's parent 2 or guardian 2	PAR2EMPL
Zip code classification by community type	ZIPLOCL
Why homeschool - religious instruction	HSRELGON
Why homeschool - moral instruction	HSMORAL
Why homeschool - peer pressure	HSSAFETYX
Why homeschool - dissatisfied with instruction	HSDISSATX
Why homeschool - nontraditional education	HSALTXX
Why homeschool - special needs	HSSPCLNDX
Why homeschool - health problem	HSDISABLX
Why homeschool - temporary illness	HSILLXX
Why homeschool - other	HSOTHERX
Why homeschool - Most important reason	HSMOSTXX
Person providing homeschool instruction	HSWHOX
Homeschool instruction by tutor	HSTUTOR
Homeschool instruction by homeschool group	HSCOOP
Homeschool instruction at public or private school or university	HSCOLL
Homeschool type of school - Public	HSPUBLIC
Homeschool type of school - Private	HSPRIVATE
Homeschool type of school - College	HSCOLLEGE
Hours spent in public or private school	HSSCHR
Days a week homeschooled	HSDAYS

(continued)

Redford, J., Battle, D., and Bielick, S. (2017). *Homeschooling in the United States: 2012 (NCES 2016-096.REV)*. National Center for Education Statistics, Institute of Education Sciences, U.S. Department of Education. Washington, DC.

## ENDNOTES

<sup>1</sup> The PFI data and questionnaire are available for download through the National Center for Education Statistics (NCES) National Household Education Surveys Program website, located at <https://nces.ed.gov/nhes/dataproducts.asp>

<sup>2</sup> In the NHES:2016 data used in this report, 10 variables had an unweighted response rate between 80 and 85 percent: how much homeschooling (HMSCHARR); why homeschooled - health problem (HSDISABLX); why homeschooled - temporary illness (HSILLX); why homeschooled - special needs (HSPCLNDX); why homeschooled - nontraditional education (HSALTX); homeschool grade equivalent K-12 (GRADEEQ); homeschool curriculum source - educational publisher (HSCEDPUBX); homeschool curriculum source - homeschooling organization (HSCORGX); homeschool curriculum source - church (HSCCHURX); homeschool curriculum source - public school (HSCPUBLX). Another three variables had item response rates between 77 and 79 percent: why homeschooled - other (HSOTHERX); Why homeschool - Most important reason (HSMOSTX); and homeschool curriculum source - private school (HSCPRIVX). Please see the Data File Use Manual located at <https://nces.ed.gov/pubs2018/2018100.pdf>. In the NHES:2012 data used in this report, four variables had an unweighted response rate between 80 and 85 percent: Homeschool type of school - Public (HSPUBLIC); Homeschool type of school - Private (HSPRIVATE); Homeschool type of school - College (HSCOLLEGE); Hours spent in public or private school (HSSCHR). Please see the Data File Use Manual located at [https://nces.ed.gov/nhes/pdf/userman/NHES\\_2012\\_UsersManual.pdf](https://nces.ed.gov/nhes/pdf/userman/NHES_2012_UsersManual.pdf)

## VARIABLES USED—Continued

Label	Name
2012 and 2016 Variables-Continued	
Hours a week homeschooled	HSHOURS
Participated in activities while homeschooled	HSKACTIV
Participate in homeschool group	HSASSNX
Member of homeschool organization	HSNATL
Family member courses taken for homeschool	HSCOURS
Participate in homeschool group - times	HSFREQX
Homeschool teaching style	HSSTYL
Homeschool curriculum source - library	HSCLIBRX
Homeschool curriculum source - homeschool catalog	HSCHSPUBX
Homeschool curriculum source - educational publisher	HSCEDPUBX
Homeschool curriculum source - homeschooling organization	HSCORGX
Homeschool curriculum source - church	HSCCHURX
Homeschool curriculum source - public school	HSCPUBLX
Homeschool curriculum source - private school	HSCPRIVX
Homeschool curriculum source - bookstore	HSCRELX
Homeschool curriculum source - websites	HSCNETX
Homeschool curriculum source - virtual school or curriculum	HSCVTLCR
Homeschool curriculum source - other source	HSCOTH
Internet homeschool instruction	HSINTNET
Homeschool instruction provided by - local public school	HSINTPUB
Homeschool instruction provided by - state	HSINTST
Homeschool instruction provided by - charter school	HSINTCH
Homeschool instruction provided by - another public school	HSINTAPB
Homeschool instruction provided by - private school	HSINTPRI
Homeschool instruction provided by - college	HSINTCOL
Homeschool instruction provided by - someplace else	HSINTOH
Fee charged for homeschool instruction	HSFEE
Homeschool subject areas taught - Arithmetic	HSARITH
Homeschool subject areas taught - Algebra	HSALG1
Homeschool subject areas taught - Algebra II	HSALG2
Homeschool subject areas taught - Geometry	HSGEOM
Homeschool subject areas taught - Calculus	HSCALC
Homeschool subject areas taught - Probability	HSPROB
Homeschool subject areas taught - Scientific inquiry	HSSCIEN
Homeschool subject areas taught - Earth science	HSGEOL
Homeschool subject areas taught - Biology	HSBIOL
Homeschool subject areas taught - Chemistry	HSCHEM
Homeschool subject areas taught - Computer science	HSCOMSCI
Homeschool subject areas taught - Reading	HSREAD
Homeschool subject areas taught - Spelling	HSSPELL
Homeschool subject areas taught - English	HSENGL
Homeschool subject areas taught - Art	HSART
Homeschool subject areas taught - Music	HSMUSIC
Homeschool subject areas taught - Social studies	HS HIST
Homeschool subject areas taught - Geography	HSGEOG

(continued)

**VARIABLES USED—Continued**

Label	Name
<b>2012 and 2016 Variables-Continued</b>	
Homeschool subject areas taught - Foreign language	HSFOLANG
Homeschool subject areas taught - Physical education	HSPHYED
Homeschool subject areas taught - Health	HSHEALTH
Subject areas taught now - Arithmetic	HSNARITH
Subject areas taught now - Algebra	HSNALG1
Subject areas taught now - Algebra II	HSNALG2
Subject areas taught now - Geometry	HSNGEOM
Subject areas taught now - Calculus	HSNCALC
Subject areas taught now - Probability	HSNPROB
Subject areas taught now - Scientific inquiry	HSNSCIEN
Subject areas taught now - Earth science	HSNGEOL
Subject areas taught now - Biology	HSNBIOL
Subject areas taught now - Chemistry	HSNCHEM
Subject areas taught now - Computer science	HSNCOMSCI
Subject areas taught now - Reading	HSNREAD
Subject areas taught now - Spelling	HSNSPELL
Subject areas taught now - English	HSNENGL
Subject areas taught now - Art	HSNART
Subject areas taught now - Music	HSNMUSIC
Subject areas taught now - Social studies	HSNHIST
Subject areas taught now - Geography	HSNGEOG
Subject areas taught now - Foreign language	HSNFOLANG
Subject areas taught now - Physical education	HSNPHYED
Subject areas taught now - Health	HSNHEALTH
Expectations for child's future education	SEFUTUREX
Expectations for child's homeschool education	HSFUTUREX
In the past week, times child has been told a story	FOSTORY2X
In the past week, time spent on arts and crafts	FOCRAFTS
In the past week, played board games	FOGAMES
In the past week, worked on a project	FOBUILDX
In the past week, time spent playing sports	FOSPORT
In the past week, discussed time management	FORESPON
In the past week, discussed ethnic heritage	FOHISTX
Visited a library in the past month	FOLIBRAYX
Visited a bookstore in the past month	FOBOOKSTX
Gone to a play in the past month	FOCONCRTX
Visited an art gallery in the past month	FOMUSEUMX
Visited a zoo in the past month	FOZOOX
Attended a religious event in the past month	FOGROUPX
Attended a sporting event in the past month	FOSPRTEVX
<b>2012 variables that differ from 2016</b>	
Age of child as of Dec 31, 2011	AGE2011
Family type including same-sex parents/partners	FAMILY12X

<sup>1</sup> Age has a different variable name in 2012

<sup>2</sup> Not available in 2012.

## National Center for Education Statistics

**Table 1. Number and percentage distribution of homeschooled students ages 5 through 17 with a grade equivalent of kindergarten through grade 12, by selected student and family characteristics: 2012 and 2016**

Selected student and family characteristics	2012		2016	
	Number of students homeschooled (in thousands)	Percent of students homeschooled	Number of students homeschooled (in thousands)	Percent of students homeschooled
<b>Total</b>	<b>1,773</b>	<b>100</b>	<b>1,690</b>	<b>100</b>
Homeschool status				
Full-time	—	—	1,232	73
Part-time	—	—	457	27
Student's sex				
Male	875	49	807	48
Female	898	51	882	52
Student's race/ethnicity				
White, non-Hispanic	1,205	68	998	59
Black, non-Hispanic	140	8	132	8
Hispanic	265	15	444	26
Asian or Pacific Islander, non-Hispanic	73 !	4	48	3
Other, non-Hispanic <sup>1</sup>	90	5	67	4
Student's grade equivalent				
Kindergarten–2nd grade	418	24	389	23
3rd–5th grade	415	23	379	22
6th–8th grade	424	24	398	24
9th–12th grade	516	29	525	31
Parent reported disability status				
Has a disability	341	19	355	21
Does not have a disability	1,432	81	1,335	79
Highest education level of parents/guardians				
Less than high school	204	12	248	15
High school diploma or equivalent <sup>2</sup>	356	20	263	16
Vocational/technical or some college	525	30	418	25
Bachelor's or higher degree	434	24	501	30
Graduate or professional school	255	14	260	15
Poverty status <sup>3</sup>				
Poor	355	20	362	21
Nonpoor	1,418	80	1,327	79
Locale of student's household <sup>4</sup>				
City	493	28	493	29
Suburban	601	34	651	39
Town	127	7	177	10
Rural	552	31	368	22

— Not available.

! Interpret data with caution. The coefficient of variation for this estimate is between 30 and 50 percent.

<sup>1</sup> "Other, non-Hispanic" includes American Indian/Alaska Native children who are not Hispanic and children who are two or more races who are not Hispanic.

<sup>2</sup> Such as a GED.

<sup>3</sup> Students are considered "Poor" if living in households with incomes below the poverty threshold. And a household is "Nonpoor" if its income exceeds the poverty threshold. The poverty threshold is a dollar amount determined by the federal government to meet the household's needs, given its size and composition. Income is collected in categories in the survey, rather than as an exact amount, and therefore the poverty measures used in this report are approximations of poverty. For additional information about poverty status, see <https://www.census.gov/data/tables/time-series/demo/income-poverty/historical-poverty-thresholds.html>. Detailed information on status calculation used in this report can be found in the Glossary.

<sup>4</sup> Locale of student's household classifies the residential Zip Code Tabulation Area (ZCTA) into a set of four major locale categories: city, suburban, town, rural.

NOTE: Homeschooled students are school-age children who receive instruction at home instead of at a public or private school either all or most of the time. Excludes students who were enrolled in public or private school more than 25 hours per week and students who were homeschooled only because of temporary illness. Race categories exclude persons of Hispanic ethnicity. Detail may not sum to totals due to rounding. The National Center for Education Statistics uses a statistical adjustment for estimates of homeschoolers in 2012. For more information about this adjustment, please see *Homeschooling in the United States: 2012* (NCES 2016-096.REV, 2017).

SOURCE: U.S. Department of Education, National Center for Education Statistics, Parent and Family Involvement in Education Survey of the National Household Education Surveys Program (PFI-NHES), 2012 and 2016.

# National Center for Education Statistics

**Table S1. Standard errors for table 1: Number and percentage distribution of homeschooled students ages 5 through 17 with a grade equivalent of kindergarten through grade 12, by selected student and family characteristics: 2012 and 2016**

Selected student and family characteristics	2012		2016	
	Number of students homeschooled (in thousands)	Percent of students homeschooled	Number of students homeschooled (in thousands)	Percent of students homeschooled
<b>Total</b>	<b>115.7</b>	<b>†</b>	<b>118.4</b>	<b>†</b>
Homeschool status				
Full-time	—	—	100.9	2.6
Part-time	—	—	52.2	2.6
Student's sex				
Male	73.7	2.9	79.2	2.9
Female	80.2	2.9	74.8	2.9
Student's race/ethnicity				
White, non-Hispanic	95.7	3.0	92.6	3.3
Black, non-Hispanic	37.1	2.0	27.6	1.6
Hispanic	41.1	2.2	62.2	3.3
Asian or Pacific Islander, non-Hispanic	21.9	1.2	13.2	0.8
Other, non-Hispanic	17.6	1.0	14.2	0.8
Student's grade equivalent				
Kindergarten–2nd grade	62.2	2.9	49.6	2.6
3rd–5th grade	56.5	2.7	54.4	2.6
6th–8th grade	49.0	2.7	49.1	2.4
9th–12th grade	53.6	2.5	55.9	2.6
Parent reported disability status				
Has a disability	36.6	1.9	41.2	2.1
Does not have a disability	104.2	1.9	102.8	2.1
Highest education level of parents/guardians				
Less than high school	50.9	2.6	57.7	3.2
High school diploma or equivalent	59.0	2.7	38.8	2.2
Vocational/technical or some college	45.6	2.3	49.2	2.7
Bachelor's or higher degree	51.4	2.6	64.0	2.9
Graduate or professional school	27.3	1.6	30.7	1.6
Poverty status				
Poor	53.8	2.6	53.7	2.7
Nonpoor	98.0	2.6	100.0	2.7
Locale of student's household				
City	59.5	2.9	56.0	2.7
Suburban	66.8	3.0	76.2	3.4
Town	30.8	1.7	30.0	1.7
Rural	68.2	3.3	45.1	2.2

— Not available.

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Parent and Family Involvement in Education Survey of the National Household Education Surveys Program (PFI-NHES), 2012 and 2016.

## National Center for Education Statistics

**Table 2. Percentage of homeschooled students ages 5 through 17 with a grade equivalent of kindergarten through grade 12, by reasons parents gave as important and most important for homeschooling and locale: 2012 and 2016**

Locale <sup>1</sup> and importance	Reason for homeschooling								Other reasons <sup>3</sup>	
	Desire to provide religious instruction	Desire to provide moral instruction	Concern about environment of other schools <sup>2</sup>	Dissatisfaction with academic instruction at other schools	Desire to provide a nontraditional approach to child's education	Child has other special needs	Child has a physical or mental health problem	Child has a temporary illness		
2012										
<b>Total</b>	<b>64</b>	<b>77</b>	<b>91</b>	<b>74</b>	<b>44</b>	<b>16</b>	<b>15</b>	<b>6</b>	<b>37</b>	
<b>Important<sup>4</sup></b>	<b>17</b>	<b>5</b>	<b>25</b>	<b>19</b>	<b>5</b>	<b>‡</b>	<b>5</b>	<b>3</b>	<b>21</b>	
<b>Most important</b>										
City										
Important <sup>4</sup>	52	59	85	57	46	12	23	9	37	
Most important	12	10	32	12	‡	‡	7	‡	19	
Suburban										
Important <sup>4</sup>	59	70	91	78	50	23	17	‡	32	
Most important	13	‡	26	23	9	‡	‡	‡	14	
Town/Rural										
Important <sup>4</sup>	71	88	94	79	39	15	11	3	40	
Most important	21	4	22	19	‡	‡	3	‡	26	
2016										
<b>Total</b>	<b>51</b>	<b>67</b>	<b>80</b>	<b>61</b>	<b>39</b>	<b>20</b>	<b>14</b>	<b>4</b>	<b>22</b>	
<b>Important<sup>4</sup></b>	<b>16</b>	<b>5</b>	<b>34</b>	<b>17</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>‡</b>	<b>11</b>	
<b>Most important</b>										
City										
Important <sup>4</sup>	37	56	71	53	39	20	18	6	31	
Most important	15	2	34	11	6	10	5	‡	16	
Suburban										
Important <sup>4</sup>	54	69	85	61	40	21	12	4	21	
Most important	17	6	32	20	5	5	5	‡	10	
Town/Rural										
Important <sup>4</sup>	62	74	84	66	38	18	13	1	14	
Most important	15	6	36	19	6	3	7	‡	9	

! Interpret data with caution. The coefficient of variation for this estimate is between 30 and 50 percent.

‡ Reporting standards not met. Either there are too few cases for a reliable estimate or the coefficient of variation (CV) is 50 percent or greater.

<sup>1</sup> Locale of student's household classifies the residential Zip Code Tabulation Area (ZCTA) into a set of four major locale categories: city, suburban, town, rural. To ensure sufficient sample sizes for the analysis, the town and rural categories have been combined.

<sup>2</sup> Based on the response to the question, "You are concerned about the school environment, such as safety, drugs, or negative peer pressure?"

<sup>3</sup> Parents homeschool their children for many reasons that are often unique to their family situation. "Other reasons" parents gave for homeschooling include family time, finances, travel, and a more flexible schedule.

<sup>4</sup> Parents could designate more than one reason as important.

NOTE: Homeschooled students are school-age children who receive instruction at home instead of at a public or private school either all or most of the time. Excludes students who were enrolled in public or private school more than 25 hours per week and students who were homeschooled only because of temporary illness.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Parent and Family Involvement in Education Survey of the National Household Education Surveys Program (PFI-NHES), 2012 and 2016.



## National Center for Education Statistics

**Table S2. Standard errors for table 2: Percentage of homeschooled students ages 5 through 17 with a grade equivalent of kindergarten through grade 12, by reasons parents gave as important and most important for homeschooling and locale: 2012 and 2016**

Locale and importance	Reason for homeschooling								
	Desire to provide religious instruction	Desire to provide moral instruction	Concern about environment of other schools	Dissatisfaction with academic instruction at other schools	Desire to provide a nontraditional approach to child's education	Child has other special needs	Child has a physical or mental health problem	Child has a temporary illness	Other reasons
2012									
<b>Total</b>									
<b>Important</b>	<b>3.9</b>	<b>3.2</b>	<b>2.3</b>	<b>3.3</b>	<b>3.5</b>	<b>2.8</b>	<b>2.5</b>	<b>1.9</b>	<b>3.6</b>
<b>Most important</b>	<b>3.2</b>	<b>1.2</b>	<b>3.1</b>	<b>3.4</b>	<b>1.6</b>	†	<b>1.3</b>	<b>1.4</b>	<b>3.4</b>
City									
Important	6.2	7.5	5.3	6.8	6.9	3.2	5.4	3.5	7.3
Most important	5.1	3.6	5.9	3.4	†	†	3.6	†	5.1
Suburban									
Important	6.5	6.2	3.9	4.8	5.9	6.4	4.0	†	5.9
Most important	3.5	†	5.0	4.7	3.9	†	†	†	3.6
Town/Rural									
Important	6.1	3.5	3.1	11.9	5.4	3.8	3.2	1.6	6.5
Most important	5.5	2.0	5.3	5.6	†	†	1.2	†	6.3
2016									
<b>Total</b>									
<b>Important</b>	<b>3.0</b>	<b>2.9</b>	<b>2.4</b>	<b>3.0</b>	<b>2.7</b>	<b>1.9</b>	<b>1.5</b>	<b>0.8</b>	<b>2.7</b>
<b>Most important</b>	<b>2.7</b>	<b>1.3</b>	<b>3.2</b>	<b>2.2</b>	<b>1.2</b>	<b>1.3</b>	<b>1.2</b>	†	<b>1.9</b>
City									
Important	5.9	6.9	4.8	6.8	5.5	4.2	3.6	2.1	6.6
Most important	3.7	0.9	6.7	3.1	2.2	3.3	1.7	†	4.4
Suburban									
Important	5.1	4.9	3.2	5.3	4.7	3.6	2.3	1.5	4.0
Most important	5.4	2.6	4.7	3.8	1.8	1.5	1.7	†	2.8
Town/Rural									
Important	5.3	4.7	4.6	5.0	4.7	3.7	2.9	0.6	3.0
Most important	3.8	1.9	5.3	3.7	2.5	1.6	2.6	†	3.0

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Parent and Family Involvement in Education Survey of the National Household Education Surveys Program (PFI-NHES), 2012 and 2016.

# National Center for Education Statistics

**Table 3. Percentage of homeschooled students ages 5 through 17 with a grade equivalent of kindergarten through grade 12, by providers of homeschool instruction, and selected student and family characteristics: 2016**

Selected student and family characteristics	Main provider of student's home instruction					Virtual instruction or curriculum <sup>2</sup>	Any instruction by a tutor or private teacher <sup>3</sup>	Any instruction provided by local homeschooling group or co-op <sup>3</sup>
	Mother	Father	Other relative	Other person <sup>1</sup>				
<b>Total</b>	<b>78</b>	<b>13</b>	<b>3</b>	<b>4</b>		<b>2 !</b>	<b>23</b>	<b>31</b>
Student's sex								
Male	79	14	2 !	3 !		‡	23	33
Female	77	13	4 !	4 !		‡	23	30
Student's race/ethnicity								
White, non-Hispanic	85	8	3 !	2 !		2 !	25	37
Black, non-Hispanic	78	‡	‡	‡		‡	‡	26 !
Hispanic	68	24	‡	‡		‡	19	18 !
Asian or Pacific Islander, non-Hispanic	‡	‡	‡	‡		‡	‡	‡
Other, non-Hispanic <sup>4</sup>	‡	‡	‡	‡		‡	‡	‡
Student's grade equivalent								
Kindergarten–2nd grade	85	13 !	‡	‡		‡	19	25
3rd–5th grade	78	15 !	‡	‡		‡	19	32
6th–8th grade	82	14 !	‡	‡		‡	29	29
9th–12th grade	70	12	5 !	8		5 !	24	37
Parent reported disability status								
Has a disability	72	14 !	6 !	6		‡	34	36
Does not have a disability	79	13	3 !	3 !		2 !	21	30
Highest education level of parents/guardians								
Less than high school	64	32 !	‡	‡		‡	‡	‡
High school diploma or equivalent <sup>5</sup>	72	13 !	12 !	‡		‡	36	36
Vocational/technical or some college	79	9 !	4 !	5 !		‡	23	24
Bachelor's or higher degree	84	10 !	‡	3 !		‡	21	37
Graduate or professional school	83	10 !	‡	‡		‡	31	48

See notes at end of table.

# National Center for Education Statistics

**Table 3. Percentage of homeschooled students ages 5 through 17 with a grade equivalent of kindergarten through grade 12, by providers of homeschool instruction, and selected student and family characteristics: 2016—Continued**

Selected student and family characteristics	Main provider of student's home instruction					Virtual instruction or curriculum <sup>2</sup>	Any instruction by a tutor or private teacher <sup>3</sup>	Any instruction provided by local homeschooling group or co-op <sup>3</sup>
	Mother	Father	Other relative	Other person <sup>1</sup>				
<b>Poverty status<sup>6</sup></b>								
Poor	71	21 !	4 !	‡	‡	15 !	18 !	
Nonpoor	80	11	3 !	3	3 !	25	35	
<b>Locale of student's household<sup>7</sup></b>								
City	69	19	5 !	‡	‡	26	27	
Suburban	81	12	‡	4 !	‡	21	31	
Town	84	8 !	‡	‡	‡	21 !	45	
Rural	82	‡	3 !	2 !	‡	23	30	

! Interpret data with caution. The coefficient of variation for this estimate is between 30 and 50 percent.

‡ Reporting standards not met. Either there are too few cases for a reliable estimate or the coefficient of variation (CV) is 50 percent or greater.

<sup>1</sup> This category was derived from write-in responses to the questions “Who is the person that mainly provides this child's home instruction?” and then “Who is that?” for respondents who marked “Another person”, such as ‘teacher’ or ‘tutor’.

<sup>2</sup> This category was derived from write-in responses to the question “Who is the person that mainly provides this child's home instruction?” and then “Who is that?” for respondents who marked “Another person”, such as ‘virtual’ or ‘online’.

<sup>3</sup> Students in these columns could also be counted under the “Main provider of student's home instruction” categories due to the fact that the percentages are derived from different questions.

<sup>4</sup> “Other, non-Hispanic” includes American Indian/Alaska Native children who are not Hispanic and children who are two or more races who are not Hispanic.

<sup>5</sup> Such as a GED.

<sup>6</sup> Students are considered “Poor” if living in households with incomes below the poverty threshold. And a household is “Nonpoor” if its income exceeds the poverty threshold. The poverty threshold is a dollar amount determined by the federal government to meet the household's needs, given its size and composition. Income is collected in categories in the survey, rather than as an exact amount, and therefore the poverty measures used in this report are approximations of poverty. For additional information about poverty status, see <https://www.census.gov/data/tables/time-series/demo/income-poverty/historical-poverty-thresholds.html>. Detailed information on status calculation used in this report can be found in the Glossary.

<sup>7</sup> Locale of student's household classifies the residential Zip Code Tabulation Area (ZCTA) into a set of four major locale categories: city, suburban, town, rural.

NOTE: Homeschooled students are school-age children who receive instruction at home instead of at a public or private school either all or most of the time. Excludes students who were enrolled in public or private school more than 25 hours per week and students who were homeschooled only because of temporary illness. Race categories exclude persons of Hispanic ethnicity. Detail may not sum to totals due to rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Parent and Family Involvement in Education Survey of the National Household Education Surveys Program (PFI-NHES), 2016.

# National Center for Education Statistics

**Table S3. Standard errors for table 3: Percentage of homeschooled students ages 5 through 17 with a grade equivalent of kindergarten through grade 12, by providers of homeschool instruction, and selected student and family characteristics: 2016**

Selected student and family characteristics	Main provider of student's home instruction					Virtual instruction or curriculum	Any instruction by a tutor or private teacher	Any instruction provided by local homeschooling group or co-op
	Mother	Father	Other relative	Other person				
<b>Total</b>	<b>2.5</b>	<b>2.3</b>	<b>0.8</b>	<b>0.8</b>		<b>0.8</b>	<b>2.4</b>	<b>2.6</b>
Student's sex								
Male	3.9	4.0	0.9	1.1		†	3.8	3.7
Female	3.6	2.7	1.3	1.3		†	3.5	3.9
Student's race/ethnicity								
White, non-Hispanic	2.2	2.0	0.9	0.8		0.9	2.9	3.2
Black, non-Hispanic	11.1	†	†	†		†	†	11.6
Hispanic	7.5	7.2	†	†		†	5.5	5.8
Asian or Pacific Islander, non-Hispanic	†	†	†	†		†	†	†
Other, non-Hispanic	†	†	†	†		†	†	†
Student's grade equivalent								
Kindergarten–2nd grade	4.8	4.5	†	†		†	5.3	6.1
3rd–5th grade	6.3	5.7	†	†		†	5.1	5.6
6th–8th grade	5.1	5.0	†	†		†	5.6	5.4
9th–12th grade	4.8	3.0	1.9	1.9		2.2	3.9	4.3
Parent reported disability status								
Has a disability	6.1	6.2	2.7	1.8		†	5.7	5.4
Does not have a disability	3.0	2.5	0.8	1.0		1.0	2.5	2.8
Highest education level of parents/guardians								
Less than high school	12.4	12.2	†	†		†	†	†
High school diploma or equivalent	6.3	5.0	4.3	†		†	8.6	8.2
Vocational/technical or some college	3.7	3.3	1.7	1.6		†	4.7	3.8
Bachelor's or higher degree	4.3	3.3	†	1.0		†	4.1	5.7
Graduate or professional school	4.0	3.2	†	†		†	6.4	6.5
Poverty status								
Poor	7.3	6.8	1.6	†		†	4.8	5.4
Nonpoor	2.7	2.2	0.9	0.8		1.0	2.6	3.0
Locale of student's household								
City	5.1	5.0	2.0	†		†	4.4	5.2
Suburban	3.4	2.8	†	1.1		†	3.5	4.8
Town	5.4	3.6	†	†		†	9.0	10.2
Rural	5.2	†	1.2	1.1		†	4.9	5.2

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Parent and Family Involvement in Education Survey of the National Household Education Surveys Program (PFI-NHES), 2016.

## National Center for Education Statistics

**Table 4. Number and percentage of homeschooled students ages 5 through 17 with a grade equivalent of kindergarten through grade 12 also attending a school, by type of school providing instruction and selected student and family characteristics: 2016**

Selected student and family characteristics	Percentage of homeschooled students attending a school	Type of school providing instruction		
		Public school	Private school	College, community college, or university
<b>Total</b>	<b>18</b>	<b>15</b>	<b>2 !</b>	<b>1 !</b>
Student's sex				
Male	15	14	1 !	‡
Female	21	17	4 !	‡
Student's race/ethnicity				
White, non-Hispanic	12	9	2 !	1 !
Black, non-Hispanic	35	28	‡	‡
Hispanic	28	27	‡	‡
Asian or Pacific Islander, non-Hispanic	25 !	‡	‡	‡
Other, non-Hispanic <sup>1</sup>	‡	‡	‡	‡
Student's grade equivalent				
Kindergarten–2nd grade	14 !	12 !	‡	‡
3rd–5th grade	25	24	‡	‡
6th–8th grade	9 !	8 !	‡	‡
9th–12th grade	23	16	4 !	4 !
Parent reported disability status				
Has a disability	23	21	‡	‡
Does not have a disability	17	14	3 !	‡
Highest education level of parents/guardians				
Less than high school	31 !	30 !	‡	‡
High school diploma or equivalent <sup>2</sup>	22	22	‡	‡
Vocational/technical or some college	15	14	‡	‡
Bachelor's or higher degree	16	10 !	‡	‡
Graduate or professional school	10 !	6 !	‡	‡
Poverty status <sup>3</sup>				
Poor	19	17	1 !	‡
Nonpoor	18	15	3 !	2 !
Locale of student's household <sup>4</sup>				
City	23	18	‡	‡
Suburban	13	11	‡	‡
Town	22 !	22 !	‡	‡
Rural	18	15 !	‡	‡

! Interpret data with caution. The coefficient of variation for this estimate is between 30 and 50 percent.

‡ Reporting standards not met. Either there are too few cases for a reliable estimate or the coefficient of variation (CV) is 50 percent or greater.

<sup>1</sup> "Other, non-Hispanic" includes American Indian/Alaska Native children who are not Hispanic and children who are two or more races who are not Hispanic.

<sup>2</sup> Such as a GED.

<sup>3</sup> Students are considered "Poor" if living in households with incomes below the poverty threshold. And a household is "Nonpoor" if its income exceeds the poverty threshold. The poverty threshold is a dollar amount determined by the federal government to meet the household's needs, given its size and composition. Income is collected in categories in the survey, rather than as an exact amount, and therefore the poverty measures used in this report are approximations of poverty. For additional information about poverty status, see <https://www.census.gov/data/tables/time-series/demo/income-poverty/historical-poverty-thresholds.html>. Detailed information on status calculation used in this report can be found in the Glossary.

<sup>4</sup> Locale of student's household classifies the residential Zip Code Tabulation Area (ZCTA) into a set of four major locale categories: city, suburban, town, rural.

NOTE: Homeschooled students are school-age children who receive instruction at home instead of at a public or private school either all or most of the time. Excludes students who were enrolled in public or private school more than 25 hours per week and students who were homeschooled only because of temporary illness. Race categories exclude persons of Hispanic ethnicity.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Parent and Family Involvement in Education Survey of the National Household Education Surveys Program (PFI-NHES), 2016.

## National Center for Education Statistics

**Table S4. Standard errors for table 4: Number and percentage of homeschooled students ages 5 through 17 with a grade equivalent of kindergarten through grade 12 also attending a school, by type of school providing instruction and selected student and family characteristics: 2016**

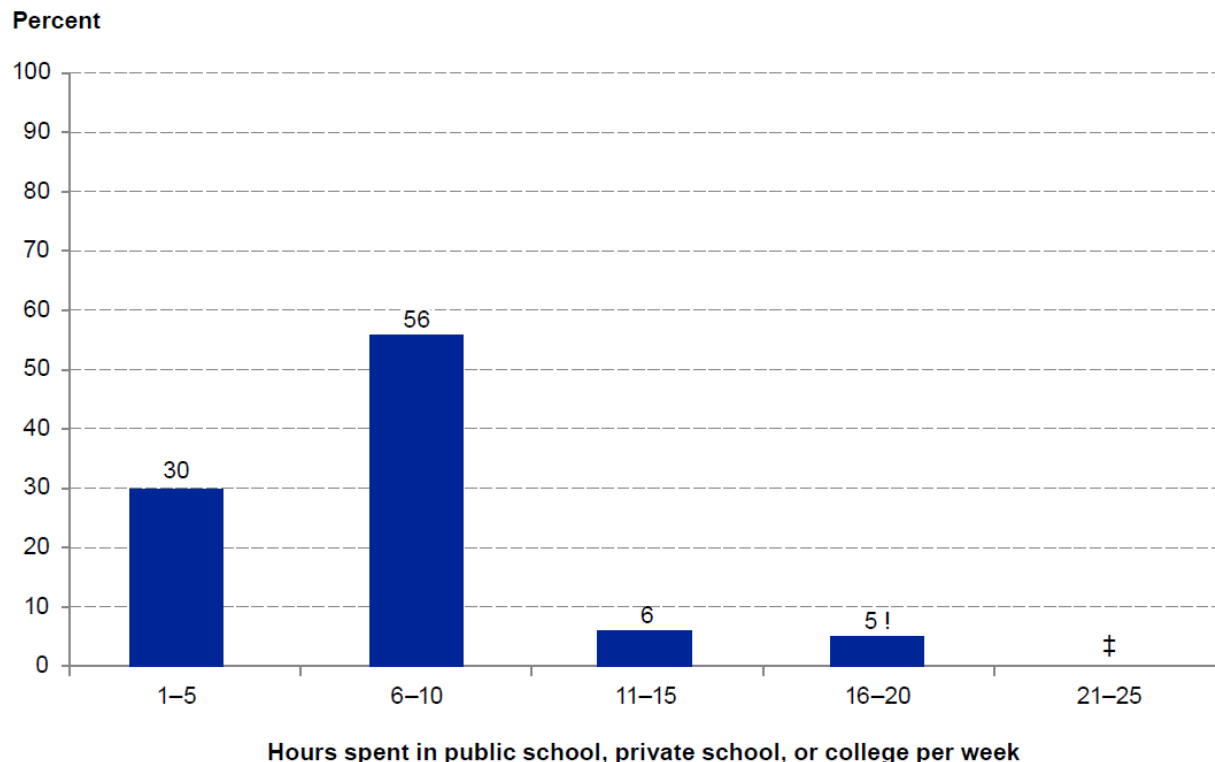
Selected student and family characteristics	Percentage of homeschooled students attending a school	Type of school providing instruction		
		Public school	Private school	College, community college, or university
<b>Total</b>	<b>2.2</b>	<b>1.9</b>	<b>0.7</b>	<b>0.6</b>
Student's sex				
Male	3.2	3.2	0.5	†
Female	3.4	2.8	1.3	†
Student's race/ethnicity				
White, non-Hispanic	2.2	1.7	1.0	0.5
Black, non-Hispanic	9.8	8.3	†	†
Hispanic	6.3	6.2	†	†
Asian or Pacific Islander, non-Hispanic	11.1	†	†	†
Other, non-Hispanic	†	†	†	†
Student's grade equivalent				
Kindergarten–2nd grade	4.4	4.3	†	†
3rd–5th grade	6.4	6.3	†	†
6th–8th grade	2.6	2.6	†	†
9th–12th grade	3.5	2.9	1.9	2.0
Parent reported disability status				
Has a disability	6.4	5.7	†	†
Does not have a disability	2.3	1.9	0.9	†
Highest education level of parents/guardians				
Less than high school	10.2	10.6	†	†
High school diploma or equivalent	6.1	6.1	†	†
Vocational/technical or some college	3.1	3.0	†	†
Bachelor's or higher degree	4.1	3.1	†	†
Graduate or professional school	3.4	2.5	†	†
Poverty status				
Poor	4.7	4.8	1.2	†
Nonpoor	2.5	2.1	0.9	0.8
Locale of student's household				
City	4.6	3.9	†	†
Suburban	3.3	2.6	†	†
Town	7.6	7.6	†	†
Rural	5.1	5.3	†	†

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Parent and Family Involvement in Education Survey of the National Household Education Surveys Program (PFI-NHES), 2016.

# National Center for Education Statistics

Figure 1. Percentage distribution of homeschooled students ages 5 through 17 with a grade equivalent of kindergarten through grade 12 who also attended school, by estimated hours spent in public school, private school, or college per week: 2016



! Interpret with caution. The coefficient of variation for this estimate is between 30 and 50 percent.

‡ Reporting standards not met. Either there are too few cases for a reliable estimate or the coefficient of variation (CV) is 50 percent or greater.

NOTE: Homeschooled students are school-age children who receive instruction at home instead of at a public or private school either all or most of the time. Excludes students who were enrolled in public or private school more than 25 hours per week and students who were homeschooled only because of temporary illness. This figure only includes homeschool students who also attend a school.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Parent and Family Involvement in Education Survey of the National Household Education Surveys Program (PFI-NHES), 2016.

## National Center for Education Statistics

**Table S11. Standard errors for figure 1. Percentage distribution of homeschooled students ages 5 through 17 with a grade equivalent of kindergarten through grade 12 who also attended school, by estimated hours spent in public school, private school, or college per week: 2016**

Hours spent in public school, private school, or college per week	Percent
1–5	5.0
6–10	5.5
11–15	1.6
16–20	2.2
21–25	†

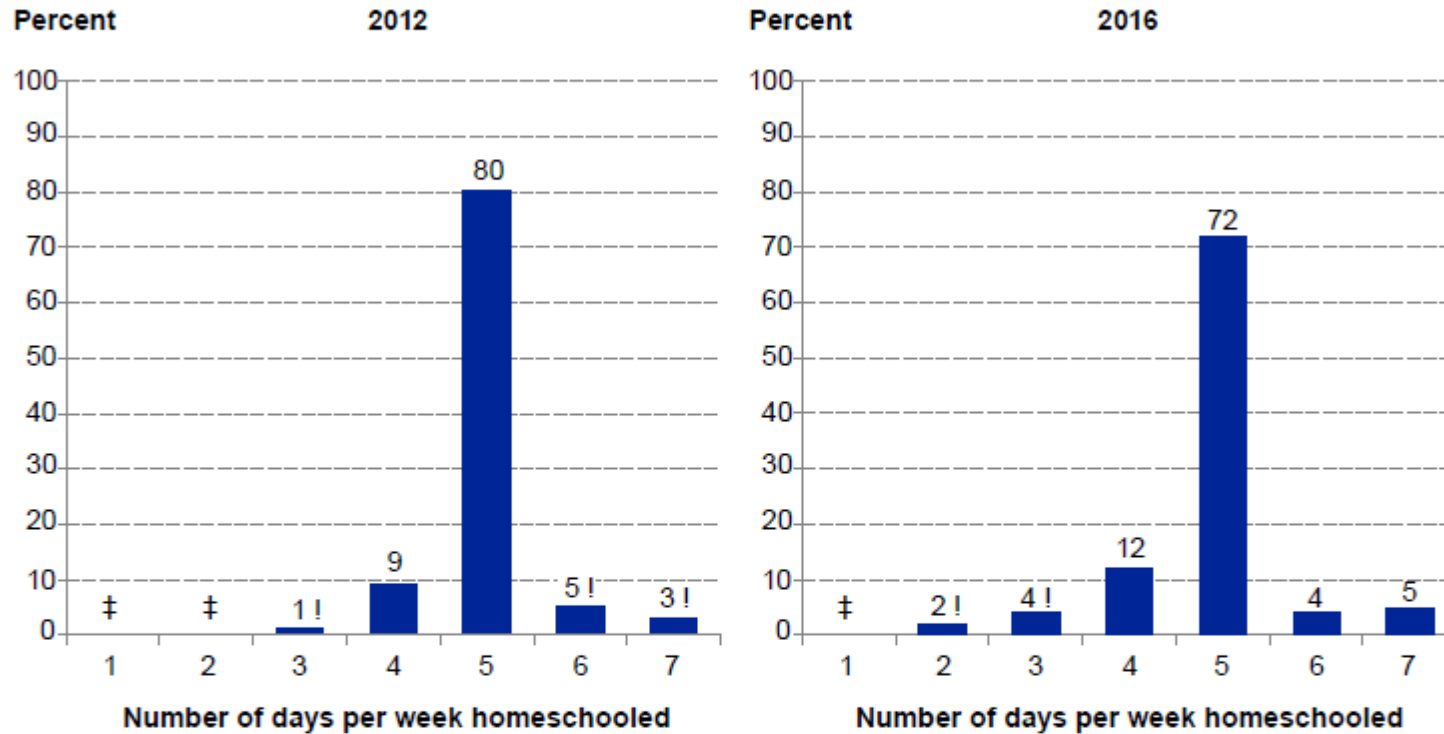
† Not applicable

SOURCE: U.S. Department of Education, National Center for Education Statistics, Parent and Family Involvement in Education Survey of the National Household Education Surveys Program (PFI-NHES), 2016.



## National Center for Education Statistics

Figure 2. Percentage distribution of homeschooled students ages 5 through 17 with a grade equivalent of kindergarten through grade 12, by days students were homeschooled per week: 2012 and 2016



! Interpret with caution. The coefficient of variation for this estimate is between 30 and 50 percent.

‡ Reporting standards not met. Either there are too few cases for a reliable estimate or the coefficient of variation (CV) is 50 percent or greater.

NOTE: Homeschooled students are school-age children who receive instruction at home instead of at a public or private school either all or most of the time. Excludes students who were enrolled in public or private school more than 25 hours per week and students who were homeschooled only because of temporary illness. Although rounded numbers are displayed, the figures are based on unrounded data.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Parent and Family Involvement in Education Survey of the National Household Education Surveys Program (PFI-NHES), 2012 and 2016.

## National Center for Education Statistics

**Table S12. Standard errors for figure 2. Percentage distribution of homeschooled students ages 5 through 17 with a grade equivalent of kindergarten through grade 12, by days students were homeschooled per week: 2012 and 2016**

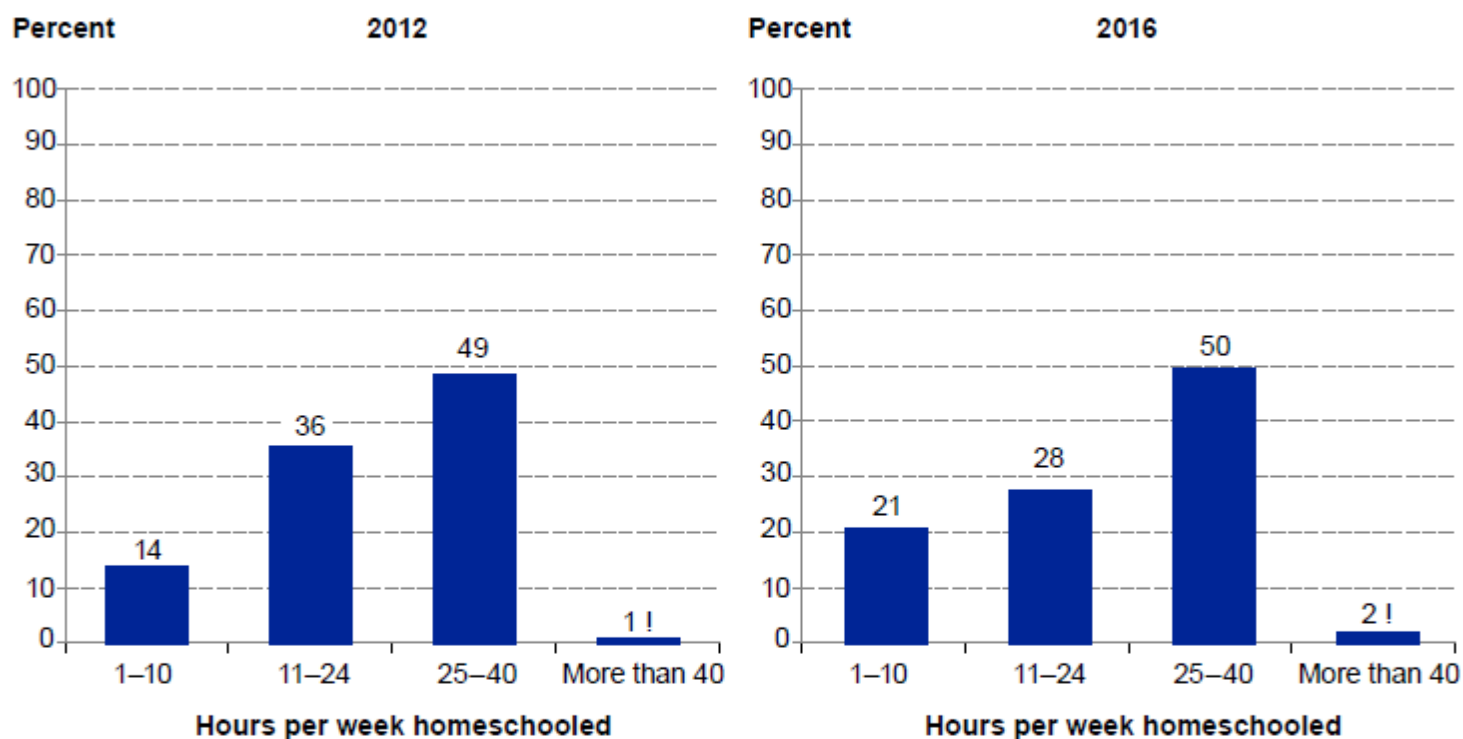
Number days per week homeschooled	Percent
2012	
1	†
2	†
3	0.6
4	2.5
5	3.1
6	1.6
7	1.1
2016	
1	†
2	0.8
3	1.4
4	2.7
5	3.0
6	1.3
7	1.3

† Not applicable

SOURCE: U.S. Department of Education, National Center for Education Statistics, Parent and Family Involvement in Education Survey of the National Household Education Surveys Program (PFI-NHES), 2012 and 2016.

## National Center for Education Statistics

Figure 3. Percentage distribution of homeschooled students ages 5 through 17 with a grade equivalent of kindergarten through grade 12, by hours students were homeschooled per week: 2012 and 2016



! Interpret with caution. The coefficient of variation for this estimate is between 30 and 50 percent.

NOTE: Homeschooled students are school-age children who receive instruction at home instead of at a public or private school either all or most of the time. Excludes students who were enrolled in public or private school more than 25 hours per week and students who were homeschooled only because of temporary illness.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Parent and Family Involvement in Education Survey of the National Household Education Surveys Program (PFI-NHES), 2012 and 2016.

## National Center for Education Statistics

**Table S13. Standard errors for figure 3. Percentage distribution of homeschooled students ages 5 through 17 with a grade equivalent of kindergarten through grade 12, by hours students were homeschooled per week: 2012 and 2016**

Hours per week homeschooled	Percent
2012	
1–10	2.6
11–24	3.7
25–40	4.0
More than 40	0.5
2016	
1–10	3.1
11–24	2.9
25–40	3.3
More than 40	0.7

SOURCE: U.S. Department of Education, National Center for Education Statistics, Parent and Family Involvement in Education Survey of the National Household Education Surveys Program (PFI-NHES), 2012 and 2016.

## National Center for Education Statistics

**Table 5. Percentage of homeschooled students ages 5 through 17 with a grade equivalent of kindergarten through grade 12 participating in various homeschool activities: 2016**

Homeschool activities	Percent of homeschooled students
Student participated in activities with other homeschooled children	61
Student's family participated in activities with homeschool group	33
Someone in student's household is a member of a national homeschooling organization	16
Member of student's family has taken a course on homeschool instruction	23
Online and in-person	10
Online only	7
In-person only	6

NOTE: Homeschooled students are school-age children who receive instruction at home instead of at a public or private school either all or most of the time. Excludes students who were enrolled in public or private school more than 25 hours per week and students who were homeschooled only because of temporary illness.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Parent and Family Involvement in Education Survey of the National Household Education Surveys Program (PFI-NHES), 2016.

## National Center for Education Statistics

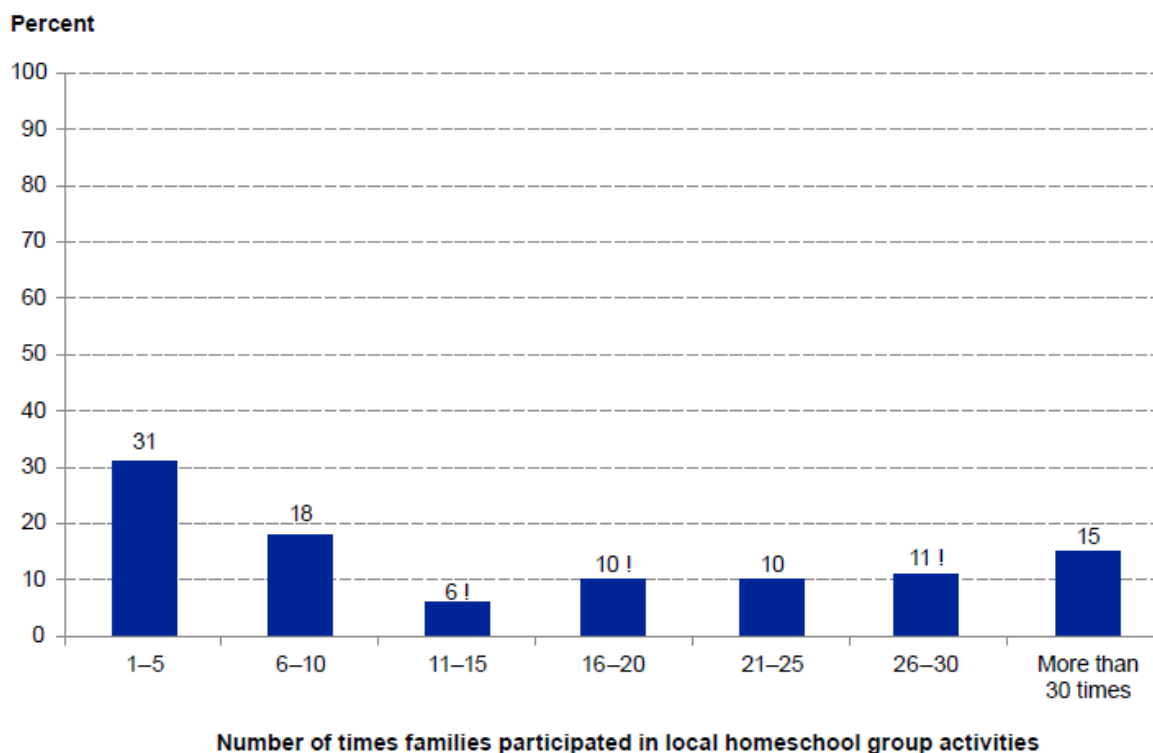
**Table S5. Standard errors for table 5: Percentage of homeschooled students ages 5 through 17 with a grade equivalent of kindergarten through grade 12 participating in various homeschool activities: 2016**

Homeschool activities	Percent of homeschooled students
Student participated in activities with other homeschooled children	2.8
Student's family participated in activities with homeschool group	2.8
Someone in student's household is a member of a national homeschooling organization	2.3
Member of student's family has taken a course on homeschool instruction	3.0
Online and in-person	2.2
Online only	1.1
In-person only	1.5

SOURCE: U.S. Department of Education, National Center for Education Statistics, Parent and Family Involvement in Education Survey of the National Household Education Surveys Program (PFI-NHES), 2016.

## National Center for Education Statistics

Figure 4. Percentage distribution of homeschooled students ages 5 through 17 with a grade equivalent of kindergarten through grade 12, by number of times from September 2015 to 2016 that households went to meetings or participated in the activities of a local homeschooling association, co-op, or other local homeschool group: 2016



! Interpret with caution. The coefficient of variation for this estimate is between 30 and 50 percent.

NOTE: Homeschooled students are school-age children who receive instruction at home instead of at a public or private school either all or most of the time. Excludes students who were enrolled in public or private school more than 25 hours per week and students who were homeschooled only because of temporary illness.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Parent and Family Involvement in Education Survey of the National Household Education Surveys Program (PFI-NHES), 2016.

## National Center for Education Statistics

**Table S14. Standard errors for figure 4: Percentage distribution of homeschooled students ages 5 through 17 with a grade equivalent of kindergarten through grade 12, by number of times from September 2015 to 2016 that families went to meetings or participated in the activities of a local homeschooling association, co-op, or other local homeschool group: 2016**

Number of times families participated in local homeschool group activities	Percent
1–5	5.7
6–10	3.5
11–15	2.0
16–20	3.3
21–25	2.6
26–30	3.2
Over 30 times	3.4

SOURCE: U.S. Department of Education, National Center for Education Statistics, Parent and Family Involvement in Education Survey of the National Household Education Surveys Program (PFI-NHES), 2016.



## National Center for Education Statistics

**Table 6. Percentage of homeschooled students ages 5 through 17 with a grade equivalent of kindergarten through grade 12, by homeschool teaching style, parent reported sources of curriculum and books, and selected student and family characteristics: 2016**

Selected student and family characteristics	Homeschool teaching style		Parent reported sources of curriculum and books										
	Mostly or strictly informal learning	Mostly or strictly formal curriculum	Library	Homeschool catalog	Educational publisher	Homeschooling organization	Church	Public school	Private school	Bookstore	Websites	Virtual school or curriculum	Other source
<b>Total</b>	<b>12</b>	<b>77</b>	<b>66</b>	<b>60</b>	<b>44</b>	<b>45</b>	<b>31</b>	<b>25</b>	<b>7</b>	<b>62</b>	<b>60</b>	<b>3</b>	<b>7</b>
Student's sex													
Male	15	73	65	61	42	43	32	26	6	61	61	4 !	7
Female	9	80	67	60	46	46	31	24	7	63	60	3 !	7 !
Student's race/ethnicity													
White, non-Hispanic	10	84	74	71	49	52	37	18	8	69	71	4 !	7 !
Black, non-Hispanic	12 !	57	46	28 !	42	26 !	26 !	23 !	‡	45	45	‡	‡
Hispanic	15 !	69	57	48	34	36	21 !	39	‡	51	40	‡	7 !
Asian or Pacific Islander, non-Hispanic	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other, non-Hispanic <sup>1</sup>	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Student's grade equivalent													
Kindergarten–2nd grade	8 !	81	78	78	49	48	41	13 !	‡	71	66	‡	3 !
3rd–5th grade	17 !	76	70	60	47	55	39	39	4 !	73	66	‡	9 !
6th–8th grade	11	75	61	60	42	38	24	16	7 !	56	50	2 !	10 !
9th–12th grade	12	75	58	48	40	40	23	30	11	52	61	4 !	5 !
Parent reported disability status													
Has a disability	20	62	56	52	39	27	24	27	5 !	53	58	3 !	8 !
Does not have a disability	10	81	69	63	45	50	33	24	7	64	61	3 !	6
Highest education level of parents/guardians													
Less than high school	‡	73	53	35 !	‡	40	‡	49	‡	38	30 !	‡	‡
High school diploma or equivalent <sup>2</sup>	15 !	70	56	50	35	38	17	35	6 !	40	50	‡	10 !
Vocational/technical or some college	8	84	66	57	52	38	36	22	9	69	66	7 !	‡
Bachelor's or higher degree	13	78	73	78	52	54	39	18	8 !	73	69	‡	7 !
Graduate or professional school	15	72	75	67	56	49	33	10	8 !	74	74	‡	7 !
Poverty status <sup>3</sup>													
Poor	14 !	71	60	45	20	41	27 !	37	3 !	45	50	‡	14 !
Nonpoor	12	78	68	65	50	46	32	21	8	67	63	4	5
Locale of student's household <sup>4</sup>													
City	12	75	63	50	41	41	34	33	7	61	61	‡	8
Suburban	12	71	64	60	43	45	28	17	5 !	59	54	4 !	7 !
Town	7 !	88	72	64	54	45	37	29	13 !	61	60	‡	‡
Rural	14 !	84	71	74	46	49	31	26	6	69	71	2 !	6 !

! Interpret data with caution. The coefficient of variation for this estimate is between 30 and 50 percent.

‡ Reporting standards not met. Either there are too few cases for a reliable estimate or the coefficient of variation (CV) is 50 percent or greater.

<sup>1</sup> "Other, non-Hispanic" includes American Indian/Alaska Native children who are not Hispanic and children who are two or more races who are not Hispanic.

<sup>2</sup> Such as a GED.

<sup>3</sup> Students are considered poor if living in households with incomes below the poverty threshold, which is a dollar amount determined by the federal government to meet the household's needs, given its size and composition. Income is collected in categories in the survey, rather than as an exact amount, and therefore the poverty measures used in this report are approximations of poverty. For additional information about poverty status, see <https://www.census.gov/data/tables/time-series/demo/income-poverty/historical-poverty-thresholds.html>. Detailed information on status calculation used in this report can be found in the Glossary.

<sup>4</sup> Locale of student's household classifies the residential Zip Code Tabulation Area (ZCTA) into a set of four major locale categories: city, suburban, town, rural.

NOTE: Homeschooled students are school-age children who receive instruction at home instead of at a public or private school either all or most of the time. Excludes students who were enrolled in public or private school more than 25 hours per week and students who were homeschooled only because of temporary illness. Race categories exclude persons of Hispanic ethnicity. Detail may not sum to totals due to rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Parent and Family Involvement in Education Survey of the National Household Education Surveys Program (PFI-NHES), 2016.

## National Center for Education Statistics

**Table S6. Standard errors for table 6: Percentage of homeschooled students ages 5 through 17 with a grade equivalent of kindergarten through grade 12, by homeschool teaching style, parent reported sources of curriculum and books, and selected student and family characteristics: 2016**

Selected student and family characteristics	Homeschool teaching style		Parent reported sources of curriculum and books										
	Mostly or strictly informal learning	Mostly or strictly formal curriculum	Library	Homeschool catalog	Educational publisher	Homeschooling organization	Church	Public school	Private school	Bookstore	Websites	Virtual school or curriculum	Other source
<b>Total</b>	<b>1.7</b>	<b>2.4</b>	<b>2.9</b>	<b>2.7</b>	<b>3.4</b>	<b>2.9</b>	<b>3.1</b>	<b>2.8</b>	<b>1.1</b>	<b>2.9</b>	<b>2.9</b>	<b>0.9</b>	<b>1.5</b>
Student's sex													
Male	3.2	3.7	4.1	3.7	5.1	3.9	4.3	4.4	1.5	4.3	4.4	1.5	1.7
Female	1.9	3.3	3.9	4.0	4.4	4.6	4.3	3.2	1.7	4.0	4.6	1.1	2.1
Student's race/ethnicity													
White, non-Hispanic	1.8	2.2	3.2	2.9	4.4	3.6	3.6	2.6	1.6	3.1	3.6	1.1	2.1
Black, non-Hispanic	6.2	11.7	11.0	11.6	11.5	9.9	11.2	8.7	†	†	11.1	†	†
Hispanic	5.1	6.5	6.5	6.9	6.3	6.6	6.7	7.6	†	6.5	6.9	†	3.1
Asian or Pacific Islander, non-Hispanic	†	†	†	†	†	†	†	†	†	†	†	†	†
Other, non-Hispanic	†	†	†	†	†	†	†	†	†	†	†	†	†
Student's grade equivalent													
Kindergarten–2nd grade	3.4	4.7	4.4	4.7	7.7	6.9	8.1	4.0	†	6.0	7.5	†	1.4
3rd–5th grade	5.6	6.5	7.2	7.7	6.7	8.2	8.7	7.3	1.7	6.4	7.3	†	3.0
6th–8th grade	2.9	5.5	6.4	6.3	6.1	5.7	6.0	4.0	2.4	6.1	6.6	1.1	4.5
9th–12th grade	2.7	4.0	4.6	4.4	4.0	4.3	3.9	4.2	2.5	4.4	4.5	1.6	2.3
Parent reported disability status													
Has a disability	5.2	6.1	6.1	5.9	6.0	4.3	5.2	6.3	2.0	6.7	5.8	1.6	2.9
Does not have a disability	1.6	2.6	3.5	3.2	3.7	3.5	3.8	3.3	1.4	3.3	3.6	1.0	1.6
Highest education level of parents/guardians													
Less than high school	†	9.5	10.4	12.0	†	11.1	†	10.6	†	11.2	12.0	†	†
High school diploma or equivalent	5.5	6.7	7.4	7.2	7.5	6.4	4.8	6.9	2.9	7.2	6.4	†	4.0
Vocational/technical or some college	2.2	3.5	4.7	4.6	5.8	4.9	5.2	4.6	2.5	4.3	5.0	3.1	†
Bachelor's or higher degree	3.7	5.4	4.8	4.8	6.8	5.5	5.7	4.1	2.8	5.0	6.8	†	2.8
Graduate or professional school	3.7	4.9	4.6	5.0	4.4	6.0	4.2	2.8	3.2	4.7	4.8	†	3.0
Poverty status													
Poor	4.6	5.8	6.1	7.3	5.8	7.2	8.3	7.4	1.4	7.3	6.5	†	5.4
Nonpoor	1.9	2.6	3.3	3.2	3.5	3.2	3.2	2.7	1.4	3.3	3.8	1.1	1.1
Locale of student's household													
City	3.0	4.6	5.5	6.0	5.5	5.8	6.5	6.5	2.0	5.9	5.6	†	2.1
Suburban	2.6	4.5	4.7	4.8	6.1	5.3	5.2	3.6	1.8	4.7	5.3	1.9	2.8
Town	3.0	4.2	9.2	9.0	9.7	9.0	10.0	8.6	5.8	10.0	9.4	†	†
Rural	5.2	5.3	5.6	5.7	5.7	5.4	5.3	6.2	1.9	5.7	6.2	1.2	2.9

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Parent and Family Involvement in Education Survey of the National Household Education Surveys Program (PFI-NHES), 2016.

# National Center for Education Statistics

**Table 7. Percentage of homeschooled students ages 5 through 17 with a grade equivalent of kindergarten through grade 12 taking online courses, by provider of child's virtual homeschool instruction, paying for online instruction, and selected student and family characteristics: 2016**

Selected student and family characteristics	Percent of homeschooled students taking courses online	Enrolled in an online course							Percent of households paying for the online homeschool instruction
		Provider of child's virtual homeschool instruction							
		Local public school	State	Charter school	Another public school	Private school	College, community college, or university	Someplace else <sup>1</sup>	
<b>Total</b>	<b>23</b>	<b>16</b>	<b>17</b>	<b>22</b>	<b>9 !</b>	<b>15</b>	<b>3 !</b>	<b>35</b>	<b>37</b>
Student's sex									
Male	21	20	12 !	28	‡	‡	‡	36	41
Female	25	14	21	17	14 !	20 !	‡	34	34
Student's race/ethnicity									
White, non-Hispanic	25	18	16	19	9 !	19	‡	31	42
Black, non-Hispanic	25 !	‡	47 !	‡	‡	‡	‡	42 !	‡
Hispanic	15	‡	‡	39 !	‡	‡	‡	‡	30 !
Asian or Pacific Islander, non-Hispanic	23 !	‡	‡	‡	‡	‡	‡	87	‡
Other, non-Hispanic <sup>2</sup>	45	‡	‡	‡	‡	‡	‡	45 !	45 !
Student's grade equivalent									
Kindergarten–2nd grade	18	‡	‡	‡	‡	‡	‡	46 !	‡
3rd–5th grade	18	36 !	31 !	‡	‡	‡	‡	‡	38 !
6th–8th grade	25	‡	17 !	36	‡	25 !	‡	34	53
9th–12th grade	30	17 !	17 !	18 !	9 !	6 !	‡	39	34
Parent reported disability status									
Has a disability	19	34	23 !	22 !	‡	‡	‡	36	20 !
Does not have a disability	24	13	16	22	9 !	18	‡	35	40
Highest education level of parents/guardians									
Less than high school	‡	‡	‡	‡	‡	‡	‡	‡	‡
High school diploma or equivalent <sup>3</sup>	23	37 !	22 !	21 !	‡	23 !	‡	26 !	49
Vocational/technical or some college	31	10 !	15 !	30	19 !	‡	‡	26	19 !
Bachelor's or higher degree	20	‡	22 !	‡	‡	26 !	‡	36 !	50
Graduate or professional school	26	15 !	14 !	21 !	‡	‡	‡	60	59

See notes at end of table.

## National Center for Education Statistics

**Table 7. Percentage of homeschooled students ages 5 through 17 with a grade equivalent of kindergarten through grade 12 taking online courses, by provider of child's virtual homeschool instruction, paying for online instruction, and selected student and family characteristics: 2016—Continued**

Selected student and family characteristics	Percent of homeschooled students taking courses online	Enrolled in an online course							Percent of households paying for the online homeschool instruction
		Provider of child's virtual homeschool instruction							
		Local public school	State	Charter school	Another public school	Private school	College, community college, or university	Someplace else <sup>1</sup>	
<b>Poverty status<sup>4</sup></b>									
Poor	18	18 !	23 !	52	‡	‡	‡	18 !	21 !
Nonpoor	24	16	16	16	8 !	17	‡	38	40
<b>Locale of student's household<sup>5</sup></b>									
City	20	31 !	‡	23 !	‡	‡	‡	38 !	17 !
Suburban	28	8 !	26	24 !	‡	17 !	‡	31	43
Town	20	‡	‡	‡	‡	‡	‡	45 !	30 !
Rural	21	‡	‡	‡	‡	‡	‡	36	51

! Interpret data with caution. The coefficient of variation for this estimate is between 30 and 50 percent.

‡ Reporting standards not met. Either there are too few cases for a reliable estimate or the coefficient of variation (CV) is 50 percent or greater.

<sup>1</sup> Respondents were instructed to select all that apply for each item. "Someplace else" is one of the virtual instruction providers that parents could select and included a write-in response item, which yielded responses such as homeschooling websites and YouTube.

<sup>2</sup> "Other, non-Hispanic" includes American Indian/Alaska Native children who are not Hispanic and children who are two or more races who are not Hispanic.

<sup>3</sup> Such as a GED.

<sup>4</sup> Students are considered "Poor" if living in households with incomes below the poverty threshold. And a household is "Nonpoor" if its income exceeds the poverty threshold. The poverty threshold is a dollar amount determined by the federal government to meet the household's needs, given its size and composition. Income is collected in categories in the survey, rather than as an exact amount, and therefore the poverty measures used in this report are approximations of poverty. For additional information about poverty status, see <https://www.census.gov/data/tables/time-series/demo/income-poverty/historical-poverty-thresholds.html>. Detailed information on status calculation used in this report can be found in the Glossary.

<sup>5</sup> Locale of student's household classifies the residential Zip Code Tabulation Area (ZCTA) into a set of four major locale categories: city, suburban, town, rural.

NOTE: Homeschooled students are school-age children who receive instruction at home instead of at a public or private school either all or most of the time. Excludes students who were enrolled in public or private school more than 25 hours per week and students who were homeschooled only because of temporary illness. Race categories exclude persons of Hispanic ethnicity. The provider of the student's virtual homeschool instruction is reported by a parent or guardian. Because of the complexity of arrangements among virtual curriculum developers, suppliers, purchasers, and providers, there may be more measurement error present in estimates about the providers of virtual homeschool instruction than in other NHES estimates. For example, a state education agency may purchase virtual curricula from a private vendor and offer it through a public school, and it may not be obvious to a parent who the provider is. Students may have multiple virtual homeschool instruction providers across the seven types of providers; therefore, a single student may be represented in multiple columns of this table.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Parent and Family Involvement in Education Survey of the National Household Education Surveys Program (PFI-NHES), 2016.

## National Center for Education Statistics

**Table S7. Standard errors for table 7: Percentage of homeschooled students ages 5 through 17 with a grade equivalent of kindergarten through grade 12 taking online courses, by provider of child's virtual homeschool instruction, paying for online instruction, and selected student and family characteristics: 2016**

Selected student and family characteristics	Percent of homeschooled students taking courses online	Enrolled in an online course							Percent of households paying for the online homeschool instruction
		Provider of child's virtual homeschool instruction							
		Local public school	State	Charter school	Another public school	Private school	College, community college, or university	Someplace else	
<b>Total</b>	<b>2.0</b>	<b>3.3</b>	<b>3.6</b>	<b>4.1</b>	<b>2.8</b>	<b>3.6</b>	<b>1.6</b>	<b>5.0</b>	<b>4.2</b>
Student's sex									
Male	3.6	5.8	5.7	7.0	†	†	†	7.0	8.2
Female	2.8	4.2	5.0	4.4	4.6	5.7	†	6.7	6.4
Student's race/ethnicity									
White, non-Hispanic	2.7	4.5	4.3	5.1	3.8	4.8	†	5.7	5.8
Black, non-Hispanic	9.3	†	21.8	†	†	†	†	20.1	†
Hispanic	4.2	†	†	17.4	†	†	†	†	13.9
Asian or Pacific Islander, non-Hispanic	11.2	†	†	†	†	†	†	16.1	†
Other, non-Hispanic	9.3	†	†	†	†	†	†	18.3	18.8
Student's grade equivalent									
Kindergarten–2nd grade	4.6	†	†	†	†	†	†	16.8	†
3rd–5th grade	4.1	15.1	14.3	†	†	†	†	†	15.2
6th–8th grade	4.0	†	5.6	10.4	†	8.4	†	9.2	8.8
9th–12th grade	4.4	5.3	5.4	6.8	3.6	2.6	†	6.1	6.7
Parent reported disability status									
Has a disability	3.5	9.1	7.8	7.5	†	†	†	9.8	6.2
Does not have a disability	2.4	3.5	4.4	4.8	3.2	4.4	†	6.1	5.3
Highest education level of parents/guardians									
Less than high school	†	†	†	†	†	†	†	†	†
High school diploma or equivalent	4.8	13.6	10.0	9.2	†	10.5	†	11.1	14.6
Vocational/technical or some college	5.2	4.5	6.6	7.1	7.3	†	†	6.9	6.7
Bachelor's or higher degree	3.6	†	8.7	†	†	8.9	†	11.2	9.6
Graduate or professional school	4.7	6.7	6.7	9.7	†	†	†	10.3	10.8
Poverty status									
Poor	4.7	7.9	10.6	14.0	†	†	†	7.4	7.5
Nonpoor	2.5	3.9	4.0	4.2	3.1	4.3	†	5.7	5.1
Locale of student's household									
City	3.5	10.0	†	7.0	†	†	†	12.2	6.7
Suburban	3.5	2.8	6.3	7.7	†	6.0	†	7.1	8.1
Town	5.0	†	†	†	†	†	†	15.4	14.2
Rural	3.9	†	†	†	†	†	†	10.5	12.5

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Parent and Family Involvement in Education Survey of the National Household Education Surveys Program (PFI-NHES), 2016.

# National Center for Education Statistics

**Table 8. Percentage of homeschooled students ages 5 through 17 with a grade equivalent of 9–12 who had ever been taught selected subjects during home instruction, by sex: 2016**

Subject areas ever taught during home instruction	Total	Sex	
		Male	Female
<b>Math</b>			
Arithmetic	76	85	68
Basic algebra (Algebra I)	79	83	76
Advanced algebra (Algebra II)	49	46	51
Geometry	52	55	50
Calculus	15	15 !	14 !
Probability	24	24	23
<b>Science</b>			
Scientific inquiry or experiments	53	59	47
Earth sciences or geology	77	77	77
Biology	66	72	61
Chemistry or physics	41	41	41
Computer science (e.g., computer programming)	37	42	32
Basic reading/reading skills	80	83	78
Spelling	70	68	72
English or literature	91	89	93
Art	65	67	64
Music	56	58	54
Social science, history, social studies	92	93	91
Geography	72	77	67
Foreign language	51	48	54
Physical education or gym	75	77	73
Health	77	77	77

! Interpret data with caution. The coefficient of variation for this estimate is between 30 and 50 percent.

NOTE: Homeschooled students are school-age children who receive instruction at home instead of at a public or private school either all or most of the time. Excludes students who were enrolled in public or private school more than 25 hours per week and students who were homeschooled only because of temporary illness.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Parent and Family Involvement in Education Survey of the National Household Education Surveys Program (PFI-NHES), 2016.

## National Center for Education Statistics

**Table S8. Standard errors for table 8: Percentage of homeschooled students ages 5 through 17 with a grade equivalent of 9–12 who had ever been taught selected subjects during home instruction, by sex: 2016**

Subject areas ever taught during home instruction	Total	Sex	
		Male	Female
<b>Math</b>			
Arithmetic	4.0	4.1	6.2
Basic algebra (Algebra I)	3.0	4.3	5.1
Advanced algebra (Algebra II)	5.2	8.3	6.2
Geometry	4.9	7.0	6.5
Calculus	3.6	4.9	5.0
Probability	4.4	6.8	5.9
<b>Science</b>			
Scientific inquiry or experiments	4.9	7.7	6.1
Earth sciences or geology	3.8	5.7	5.2
Biology	5.6	7.4	6.3
Chemistry or physics	5.2	7.8	6.3
Computer science (e.g., computer programming)	4.8	5.4	6.5
Basic reading/reading skills	3.1	3.9	5.3
Spelling	5.4	7.9	6.0
English or literature	2.4	3.2	3.6
Art	4.8	7.3	6.5
Music	5.1	8.3	6.8
Social science, history, social studies	2.4	2.7	3.8
Geography	4.1	5.1	5.8
Foreign language	5.3	7.9	7.2
Physical education or gym	4.8	5.5	6.9
Health	4.6	6.2	6.3

SOURCE: U.S. Department of Education, National Center for Education Statistics, Parent and Family Involvement in Education Survey of the National Household Education Surveys Program (PFI-NHES), 2016.

## National Center for Education Statistics

**Table 9. Percentage of homeschooled students ages 5 through 17 with a grade equivalent of kindergarten through grade 12, by subject areas taught during home instruction in 2016, grade, and sex: 2016**

Subject areas taught during home instruction in 2016	Total	Student's grade equivalent				Sex	
		Kindergarten– 2nd grade	3rd–5th grade	6th–8th grade	9th–12th grade	Male	Female
<b>Math</b>							
Arithmetic	64	83	86	66	31	63	65
Basic algebra (Algebra I)	23	‡	13	41	33	25	21
Advanced algebra (Algebra II)	13	‡	‡	‡	33	9 !	16
Geometry	17	‡	15	19	26	19	14
Calculus	5	‡	‡	‡	13	5 !	6 !
Probability	11	‡	11	13	13	13	8
<b>Science</b>							
Scientific inquiry or experiments	41	51	46	45	25	42	40
Earth sciences or geology	44	43	47	54	36	44	44
Biology	25	19	18	33	29	26	25
Chemistry or physics	15	9 !	12 !	16 !	22	15	16
Computer science (e.g., computer programming)	16	11 !	18	17	17	18	14
Basic reading/reading skills	64	92	83	53	36	70	58
Spelling	64	86	85	69	29	62	66
English or literature	80	64	83	88	85	76	85
Art	53	78	63	50	29	46	60
Music	49	68	57	49	29	41	57
Social science, history, social studies	78	70	78	82	81	78	78
Geography	41	32	54	41	38	40	42
Foreign language	32	22 !	40	30	35	30	34
Physical education or gym	65	78	60	72	53	66	64
Health	50	48	55	56	44	49	51

! Interpret data with caution. The coefficient of variation for this estimate is between 30 and 50 percent.

‡ Reporting standards not met. Either there are too few cases for a reliable estimate or the coefficient of variation (CV) is 50 percent or greater.

NOTE: Homeschooled students are school-age children who receive instruction at home instead of at a public or private school either all or most of the time. Excludes students who were enrolled in public or private school more than 25 hours per week and students who were homeschooled only because of temporary illness.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Parent and Family Involvement in Education Survey of the National Household Education Surveys Program (PFI-NHES), 2016.



## National Center for Education Statistics

**Table S9. Standard errors for table 9: Percentage of homeschooled students ages 5 through 17 with a grade equivalent of kindergarten through grade 12, by subject areas taught during home instruction in 2016, grade, and sex: 2016**

Subject areas taught during home instruction in 2016	Total	Student's grade equivalent				Sex	
		Kindergarten– 2nd grade	3rd–5th grade	6th–8th grade	9th–12th grade	Male	Female
<b>Math</b>							
Arithmetic	3.0	5.9	5.6	6.4	4.5	4.5	3.9
Basic algebra (Algebra I)	2.3	†	3.4	6.6	4.9	3.8	2.6
Advanced algebra (Algebra II)	2.2	†	†	†	5.0	2.9	3.6
Geometry	2.0	†	4.1	4.9	4.0	3.4	2.6
Calculus	1.2	†	†	†	3.6	1.7	1.7
Probability	1.8	†	3.2	3.3	3.8	3.4	1.9
<b>Science</b>							
Scientific inquiry or experiments	3.0	7.5	6.3	8.0	4.9	4.4	4.5
Earth sciences or geology	3.6	7.6	7.0	6.8	4.4	5.0	4.9
Biology	2.7	5.3	5.3	6.7	4.9	3.7	4.0
Chemistry or physics	2.2	3.5	3.9	5.1	4.4	3.3	3.3
Computer science (e.g., computer programming)	2.2	4.0	5.1	4.3	4.1	3.1	3.0
Basic reading/reading skills	3.3	4.0	6.1	7.3	5.4	4.6	4.6
Spelling	3.4	5.7	5.7	5.7	5.6	5.0	3.9
English or literature	2.8	7.7	6.1	5.1	3.2	4.6	2.9
Art	3.0	6.7	8.3	8.3	4.4	4.7	3.9
Music	3.4	7.2	7.4	7.9	5.1	4.8	4.6
Social science, history, social studies	3.4	8.9	8.8	5.6	3.4	5.1	4.4
Geography	3.3	7.3	7.2	7.3	5.1	4.8	4.4
Foreign language	3.7	7.3	7.5	5.6	4.8	5.2	4.6
Physical education or gym	3.2	6.2	7.7	5.6	4.9	4.8	4.3
Health	3.4	7.9	7.7	6.7	5.2	5.0	4.6

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Parent and Family Involvement in Education Survey of the National Household Education Surveys Program (PFI-NHES), 2016.

## National Center for Education Statistics

**Table 10. Percentage of enrolled and homeschooled students ages 5 through 17 with grade or grade equivalent of kindergarten through grade 12, by parent's expectations for student's future education and selected family activities: 2012 and 2016**

Parent's expectations for student's future education and selected family activities	2012		2016	
	Percent of students enrolled in school	Percent of students homeschooled	Percent of students enrolled in school	Percent of students homeschooled
<b>Expectations for student's future education</b>				
Less than high school	1	‡	1	3 !
High school diploma or equivalent	8	12	8	13
Vocational/technical school	6	9	6	8
Two or more years of college	16	17	14	14
Bachelor's degree	29	32	29	31
Graduate or professional school	40	29	43	30
<b>Selected family activities</b>				
Student has been told a story in the past week <sup>1</sup>	57	69	59	65
Spent time on arts and crafts in the past week	46	59	48	66
Played board games or did puzzles in the past week	52	67	54	68
Worked on a project like building, making or fixing something in the past week	57	66	57	72
Played sports, active games, or exercised together in the past week	76	80	78	86
Discussed how to manage time in the past week	67	72	67	78
Talked about the family's history or ethnic heritage in the past week	52	59	54	56
Visited a library in the past month	40	53	35	61
Visited a bookstore in the past month	38	47	34	45
Gone to a play, concert, or other live show in the past month	31	32	34	33
Visited an art gallery, museum, or historical site in the past month	21	31	26	39
Visited a zoo or aquarium in the past month	18	26	24	34
Attended an event sponsored by a community, religious, or ethnic group in the past month	54	65	54	68

! Interpret data with caution. The coefficient of variation for this estimate is between 30 and 50 percent.

‡ Reporting standards not met. Either there are too few cases for a reliable estimate or the coefficient of variation (CV) is 50 percent or greater.

<sup>1</sup> Parents were instructed not to include reading to this child in their answer.

NOTE: Homeschooled students are school-age children who receive instruction at home instead of at a public or private school either all or most of the time. Excludes students who were enrolled in public or private school more than 25 hours per week and students who were homeschooled only because of temporary illness. Selected activities with the child may have included any member of the household. The National Center for Education Statistics uses a statistical adjustment for estimates of homeschoolers in 2012. For more information about this adjustment, please see *Homeschooling in the United States: 2012* (NCES 2016-096.REV, 2017).

SOURCE: U.S. Department of Education, National Center for Education Statistics, Parent and Family Involvement in Education Survey of the National Household Education Surveys Program (PFI-NHES), 2012 and 2016.

## National Center for Education Statistics

**Table S10. Standard errors for table 10: Percentage of enrolled and homeschooled students ages 5 through 17 with grade or grade equivalent of kindergarten through grade 12, by parent's expectations for student's future education and selected family activities: 2012 and 2016**

Parent's expectations for student's future education and selected family activities	2012		2016	
	Percent of students enrolled in school	Percent of students homeschooled	Percent of students enrolled in school	Percent of students homeschooled
<b>Expectations for student's future education</b>				
Less than high school	0.1	†	0.1	1.3
High school diploma or equivalent	0.4	2.0	0.4	2.0
Vocational/technical school	0.3	1.8	0.3	1.7
Two or more years of college	0.4	2.5	0.4	2.0
Bachelor's degree	0.5	2.7	0.5	3.2
Graduate or professional school	0.6	2.6	0.6	2.6
<b>Selected family activities</b>				
Student has been told a story in the past week	0.6	2.5	0.6	2.6
Spent time on arts and crafts in the past week	0.5	3.4	0.6	2.7
Played board games or did puzzles in the past week	0.6	3.0	0.7	2.5
Worked on a project like building, making or fixing something in the past week	0.5	3.3	0.7	2.7
Played sports, active games, or exercised together in the past week	0.4	2.2	0.5	2.1
Discussed how to manage time in the past week	0.6	3.0	0.6	2.8
Talked about the family's history or ethnic heritage in the past week	0.6	3.3	0.6	3.1
Visited a library in the past month	0.5	2.9	0.7	3.2
Visited a bookstore in the past month	0.6	2.9	0.6	3.4
Gone to a play, concert, or other live show in the past month	0.6	2.4	0.6	2.7
Visited an art gallery, museum, or historical site in the past month	0.5	2.7	0.6	3.2
Visited a zoo or aquarium in the past month	0.4	2.9	0.6	3.6
Attended an event sponsored by a community, religious, or ethnic group in the past month	0.5	2.9	0.6	2.8

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Parent and Family Involvement in Education Survey of the National Household Education Surveys Program (PFI-NHES), 2012 and 2016.

# Glossary

All variables used in this publication appear in the glossary. The National Household Education Surveys Program (NHES) for the Parent and Family Involvement in Education (PFI) 2012 and 2016 data file contains the variables used here. The survey data file used to produce the PFI estimates, as well as the PFI questionnaire, are available for download at <https://nces.ed.gov/nhes/dataproducts.asp>.

The names of variables that are included in the data file and were used to produce estimates for this report appear in capital letters. In some cases, the variables have been used in the exact format in which they appear on the data file. In other cases, variables available on the data file have been modified, for instance, when the categories have been combined to create a smaller number of categories. Such collapsing of categories is noted in the descriptions. In other cases, new measures have been created specifically for this report by combining information from two or more variables in the data file. In these instances, the variables used to create the new measure are noted. NHES data files include imputed values for missing data due to item nonresponse. Unless otherwise noted, all data are based on either direct parent reports or imputed data.

## Variables Taken From the PFI-NHES:2016

Variables used from 2012 that exactly mirror those used in 2016 are marked with an asterisk in this section. If there are differences in definition or variable name, the 2012 variables are included below in the “Variable Taken from the PFI-NHES:2012” section below.

### *Student Characteristics*

#### **Homeschooled students are defined by NCES as:**

- Ages 5 through 17 (AGE2015), and in a grade equivalent of at least kindergarten and not higher than grade 12.
  - ALLGRADEX\* is a derived variable that provides the grade or grade equivalent for all PFI respondents.
- Receiving instruction at home instead of at a public or private school either all or most of the time.
  - If the parent received the PFI-Homeschool questionnaire (QTYPE\*), it is because the parent indicated on the first-stage screener survey that the child receives instruction at home and is therefore considered to be receiving instruction at home.
  - If the parent received the PFI-Enrolled questionnaire and marked “Yes” for the question, “Is this child being schooled at home instead of at school for some classes or subjects?” (HOMESCHLX\*) and also indicated that the child is homeschooled for either “some classes or subject areas” or “all classes or subject areas” when asked “Which of the following statements best describes your homeschooling arrangement for this child?” (HMSCHARR\*), the child was considered to be receiving instruction at home.
- Excluding students who were enrolled in public or private school more than 25 hours per week (HSSCHR\*) and students who were homeschooled only because of temporary illness (HSILLX\*).<sup>1</sup>

**Student's age:**

Student's age (AGE2015) is the sampled child's age as of December 31, 2015.

**Homeschool status:**

HMSCHLX, a derived variable available on the data file, indicates whether the child is homeschooled part or full time.

- 1 = Child is homeschooled full time
- 2 = Child is homeschooled part time (in school)
- 3 = Child is not homeschooled

**Student's sex:**

The data for the variable CSEX\* are taken directly from responses to the topical interview. If values are missing for this variable, they are imputed from the screener interview where possible.

- 1 = Male
- 2 = Female

**Student's race/ethnicity:**

RACEETH2\* indicates the race and ethnicity of the sampled student. This variable is used in this report in the same format in which it appears on the data file and is derived from information in CHISPAN\*, CWHITE\*, CBLACK\*, CAMIND\*, CASIAN\*, and CPACI\*. If values are missing for these variables, they are imputed. If students are reported to be both Asian and Pacific Islander, and are not Hispanic, they are included in the "Asian or Pacific Islander, non-Hispanic" category. The values of RACEETH2 are as follows:

- 1 = White, non-Hispanic
- 2 = Black, non-Hispanic
- 3 = Hispanic
- 4 = Asian or Pacific Islander, non-Hispanic
- 5 = All other races and multiple races, non-Hispanic

**Student's grade level:**

ALLGRADEX\*, a derived variable available on the data file, indicates the grade in which the student is currently enrolled or provides the student's grade equivalent. The values of ALLGRADEX are kindergarten through grade 12. For this report, grades are collapsed into the following categories: kindergarten–2, 3–5, 6–8, and 9–12.

**Student's disability status:**

DISABLTIX\*, a derived variable available on the data file, indicates whether child currently has disability.

- 1 = Currently has a disability
- 2 = Does not currently have a disability

***Family Characteristics*****Highest education level of parents/guardians:**

PARGRADEX\* indicates the highest level of education for either of the child's parents or nonparent guardians who reside in the household. This measure, which is used in this report in the same format in which it appears on the data file, is derived from PAR1EDUC and PAR2EDUC. The values for

PARGRADEX are as follows:

- 1 = Less than high school credential
- 2 = High school graduate or equivalent
- 3 = Vocational/technical education after high school or some college
- 4 = College graduate
- 5 = Graduate or professional school

**Parent participation in the workforce:**

These variables indicate whether a sample student's parent/guardian's labor force status and is derived by the authors in this report from information in numbers of parents or guardians in household including same sex parents/partners (HHPARN16\_BRD), work status of child's parent or guardian (PAR1EMPL\*), and if applicable, work status of child's parent 2 or guardian 2 (PAR2EMPL\*).

**Poverty status:**

This variable indicates whether a sample student resided in a household categorized as poor or nonpoor. NHES provides an approximate measure of income; therefore, the midpoint of the income variable range was used. The income variable used to establish whether a child resided in a household categorized as poor or nonpoor is TTLHHINC\*, which lists possible income ranges (e.g., \$0 to \$10,000, \$10,001 to 20,000, \$20,001 to \$30,000, up to over \$150,001). If data for TTLHHINC are missing, they are imputed. Using the income ranges and household size (HHTOTALX\*), poverty thresholds are then used to establish whether a child resided in a household categorized as poor or nonpoor. Thresholds to define poverty are based on weighted averages from 2015 census poverty thresholds. A household is considered poor if a household of a particular size matches the income categories shown in exhibit B-1. Otherwise, the household is considered to be nonpoor.

**Exhibit B-1. Poverty definition in Parent and Family Involvement in Education analyses, by household size: 2016**

Household size (HHTOTALX) <sup>1</sup>	Income categories in variable TTLHHINC
2	Less than or equal to \$20,000 (TTLHHINC = 1, 2)
3	Less than or equal to \$20,000 (TTLHHINC = 1, 2)
4	Less than or equal to \$20,000 (TTLHHINC = 1, 2)
5	Less than or equal to \$30,000 (TTLHHINC = 1, 2, 3)
6	Less than or equal to \$30,000 (TTLHHINC = 1, 2, 3)
7	Less than or equal to \$40,000 (TTLHHINC = 1, 2, 3, 4)
8	Less than or equal to \$40,000 (TTLHHINC = 1, 2, 3, 4)
9+	Less than or equal to \$50,000 (TTLHHINC = 1, 2, 3, 4, 5)

<sup>1</sup> Indicates the total number of individuals living in the household, top-coded to 10 for NHES:2016. SOURCE: U.S. Department of Education, National Center for Education Statistics, Parent Family Involvement in Education Survey of the National Household Education Surveys Program (PFI-NHES:2016); U.S. Census Bureau, Poverty Thresholds for 2015 by Size of Family and Number of Related Children Under 18 Years, <https://www.census.gov/data/tables/time-series/demo/income-poverty/historical-poverty-thresholds.html>.

**Locale of student's household:**

ZIPLOCL\* is a household location variable that classifies the ZIP code into a set of community types. This variable was derived using the respondent's ZIP code and census data. The values for ZIPLOCL are as follows: 1 = City—Large, 2 = City—Midsize, 3 = City—Small, 4 = Suburb—Large, 5 = Suburb—Midsize, 6 = Suburb—Small, 7 = Town—Fringe, 8 = Town—Distant, 9 = Town—Remote, 10 = Rural—Fringe, 11 = Rural—Distant, 12 = Rural—Remote. For the analyses, the first three categories from ZIPLOCL are combined to form the “City” category. Other categories from ZIPLOCL are combined to form the categories “Suburban” (categories 4, 5, and 6), “Town” (categories 7, 8, and 9), and “Rural” (10, 11, and 12).<sup>1</sup>

**Homeschool characteristics****Reasons for homeschooling children:**

Homeschooling parents were asked whether they chose to homeschool their child to provide religious instruction (HSRELGN\*); to provide moral instruction (HSMORAL\*); because of a concern about the school environment such as safety, drugs, or negative peer pressure (HSSAFETYX\*); because of dissatisfaction with the academic instruction at other schools (HSDISSATX\*); to provide a nontraditional approach (HSALTX\*); because this child has a temporary illness that prevents him/her from going to school (HSILLX\*); because the child has special needs that they believed the school could not or would not meet (HSPCLNDX\*); because the child has a physical or mental problem that has lasted six months or more (HSDISABLX\*); or for other reasons beyond those listed (HSOTHERX\*). Parents were asked to mark “yes” to all reasons that applied.

Parents were also asked to indicate the most important reason for homeschooling their child (HSMOSTX\*) based on the list in the previous question. These choices included the variables listed above.

**Provider of student's home instruction:**

Parents were asked who is the person that mainly provides this child's home instruction (HSWHOX; and then, in response to questions of whether any of this child's home instruction is provided by a private tutor or teacher (HSTUTOR), or a local homeschooling group or co-op (HSCOOP), parents could mark either “yes” or “no”.

**Type of school providing instruction:**

Parents were asked whether this child attends a public or private school or a college or university for instruction (HSCOLL) and then parents could mark either “yes” or “no” for each type of school(s): public school (HSPUBLIC), private school (HSPRIVATE), and college, community college, or university (HSCOLLEGE).

**Hours spent in public school, private school, or college per week:**

Parents were asked to estimate how many hours each week this child usually goes to a school for instruction (HSSCHR).

**Days spent homeschooled per week:**

Parents were asked to estimate how many days each week this child is homeschooled (HSDAYS).

**Hours spent homeschooled per week:**

Parents were asked to estimate how many total hours each week this child is homeschooled (HSHOURS).

**Homeschool activities:**

Parents were asked to mark either “yes” or “no” to a series of questions for each of several homeschool activities: student participated in activities with other homeschooled children (HSACTIV), student's family participated in activities with homeschool group (HSASSNX), someone in student's household is a member of a national homeschooling organization (HSNATL), a member of student's family has taken a course on homeschool instruction (HSCOURS).

A subsequent item asked parents to estimate the number of times their family had gone to meetings or participated in the activities of a local homeschooling association, co-op, or other local homeschool group since September 2015 (HSFREQX).

**Homeschool instruction teaching style:**

This variable is based on the question “Which of the following statements best describes the teaching style used to homeschool this child?” Parents could choose between four responses: “we strictly follow a formal curriculum”; “Mostly use formal curriculum”; “Mostly use informal learning”; “Always use informal learning”. For this analysis, the response options were condensed into two categories: formal and informal (HSSTYL).

**Sources of curriculum and books:**

This variable is based on the question “Thinking about sources of curriculum or books you use to homeschool this child, please tell us about all the sources that apply to you. Since September, have you used materials from...” Parents could mark either “yes” or “no” for each curriculum type: a public library (HSCLIBRX), a homeschooling catalog, publisher, or individual who specializes in homeschooling materials (HSCCHSPUBX), another educational publisher (HSCEDPUBX), a homeschooling organization (HSCORGX), a church, synagogue, or other religious organization (HSCCHURX), your local public school or school district (HSCPUBLX), a private school (HSCPRIVX), a bookstore or other store (including online) (HSCRELX), websites, excluding retailers (HSCNETX), and virtual school or curriculum (HSCVTLCR). Parents could also indicate an “other source” (HSCOTH).

**Subjects taught during the time being homeschooled:**

This variable is based on the question “Thinking about all years this child has been homeschooled, which of the following subject areas has this child been taught during his or her home instruction?” The parent was instructed to mark all that apply.

- Math subjects:  
The parent responded by checking the box for the child being taught: arithmetic (HSARITH), basic algebra (Algebra I) (HSALG1), advanced algebra (Algebra II) (HSALG2), geometry (HSGEOM), calculus (HSCALC), or probability (HSPROB).
- Science subjects:  
The parent responded by checking the box for the child being taught: scientific inquiry or experiments (HSSCIEN), Earth sciences or geology (HSGEOL), biology (HSBIOL), chemistry or physics (HSCHEM), or computer science (e.g., computer programming) (HSCOMSCI).
- Other subjects:  
The parent responded by checking the box for the child being taught: basic reading/reading skills (HSREAD), Spelling (HSSPELL), English or literature (HSENGL), Art (HSART), Music (HSMUSIC), Social science, history, social studies (HSHIST), Geography (HSGEOG), Foreign language (HSFOLANG), Physical education or gym (HSPHYED), Health (HSHEALTH).

**Subjects taught now while being homeschooled:**

This variable is based on the question “Which of the following subject areas are being taught to this child now?” The parent was instructed to mark all that apply.

- Math subjects:  
The parent responded by checking the box for the child being taught: arithmetic (HSNARITH), basic algebra (Algebra I) (HSNALG1), advanced algebra (Algebra II) (HSNALG2), geometry (HSNGEOM), calculus (HSNCALC), or probability (HSNPROB).
- Science subjects:



The parent responded by checking the box for the child being taught: scientific inquiry or experiments (HSNSCIEN), Earth sciences or geology (HSNGEOL), biology (HSNBIOL), chemistry or physics (HSNCHEM), or computer science (e.g., computer programming) (HSNCOMSCI).

- Other subjects:  
The parent responded by checking the box for the child being taught: basic reading/reading skills (HSNREAD), Spelling (HSNSPELL), English or literature (HSNENGL), Art (HSNART), Music (HSNMUSIC), Social science, history, social studies (HSNHIST), Geography (HSNGEOG), Foreign language (HSNFOLANG), Physical education or gym (HSNPHYED), Health (HSNHEALTH).

#### **Provider of child's virtual homeschool instruction:**

Parents were asked whether the child has taken courses over the internet taught by people outside the household (HSINTNET) and what type of school or teacher provided the virtual instruction. They were asked to check “yes” or “no” for the following providers: Local public school (HSINTPUB), state (HSINTST), charter school (HSINTCH), another public school (HSINTAPB), private school (HSINTPRI), college, community college, or university (HSINTCOL), someplace else (HSINTOH). Parents were also then asked if they paid a fee for the child's virtual instruction (HSFEE).

#### **Parental expectations for student's education after high school:**

Parents were asked to report how far they expect their child to go in their education (SEFUTUREX\* and HSFUTUREX\*). The choices were: “to receive less than a high school diploma,” “to graduate from high school,” “to attend a vocational school after high school,” “to attend two or more years of college,” “to finish a four- or five-year college degree,” and “to earn a graduate degree or professional degree beyond a bachelor's.” The variable HSFUTUREX is for respondents who completed the PFI-Homeschooled survey and the variable SEFUTUREX is for respondents who completed the PFI-Enrolled survey.

#### **Family participation in non-school-related activities:**

Parents were asked whether someone in the household did the following activities with the child in the past month: told this child a story (FOSTORY2X\*); did activities like arts and crafts, coloring, painting, pasting, or using clay (FOCRAFTS\*); played board games or did puzzles (FOGAMES\*); worked on a project like building, making or fixing something (FOBUILDX\*); played sports, active games, or exercised together (FOSPORT\*); discussed time management (FORESPON\*); discussed the child's family history or ethnic heritage (FOHISTX\*); visited a library (FOLIBRAYX\*); visited a bookstore (FOBOOKSTX\*); went to a play, concert, or other live show (FOCONCRTX\*); visited an art gallery, a museum, or a historical site (FOMUSEUMX\*); visited a zoo (FOZOOX\*); attended an event sponsored by a community religious or ethnic group (FOGROUPIX\*); and attended an athletic or sporting event outside of school in which the child was not a player (FOSPRTEVX\*). Responses were yes or no.

## **Variables Taken From the PFI-NHES:2012**

Variables used from 2012 that exactly mirror those used from 2016 are not reported in this section. They are marked with an asterisk in the 2016 section. If there were differences in definition or variable name, the 2012 variables are included below.

#### **Homeschooled students are defined by NCES as:**

- Ages 5 through 17 (AGE2011), and in a grade equivalent of at least kindergarten and not higher than grade 12.
  - ALLGRADEX is a derived variable that provides the grade or grade equivalent for all PFI respondents.

- Receiving instruction at home instead of at a public or private school either all or most of the time.
  - If the parent received the PFI-Homeschool questionnaire (QTYPE), it is because the parent indicated on the first-stage screener survey that the child receives instruction at home and is therefore considered to be receiving instruction at home.
  - If the parent received the PFI-Enrolled questionnaire and marked “Yes” for the question, “Is this child being schooled at home instead of at school for some classes or subjects?” (HOMESCHLX) and also indicated that the child is homeschooled for either “some classes or subject areas” or “all classes or subject areas” when asked “Which of the following statements best describes your homeschooling arrangement for this child?” (HMSCHARR), the child was considered to be receiving instruction at home.
  - Excluding students who were enrolled in public or private school more than 25 hours per week (HSSCHR) and students who were homeschooled only because of temporary illness (HSILLX).<sup>2</sup>

Number of hours in school was not asked on the NHES:2012 PFI-Enrolled questionnaire. Therefore, a statistical adjustment is applied to the NHES:2012 homeschool estimates to weight some sample cases downward, with the expectation that some proportion of students who were reported as homeschooled on the PFI-Enrolled questionnaire would not fit NCES's definition of homeschooler if the hours of schooling were known for those cases. For more information about this adjustment, please see *Homeschooling in the United States: 2012* (NCES 2016-096.REV, 2017), <https://nces.ed.gov/pubs2016/2016096rev.pdf>.

**Student’s age:**

Student’s age (AGE2011) is the sampled child’s age as of December 31, 2011.

**Parent participation in the workforce:**

These variables indicate whether a sample student’s parent/guardian’s labor force status and is derived by the authors in this report from information in numbers of parents or guardians in household including same sex parents/partners (FAMILY12X), Work status of child's parent or guardian (PAR1EMPL), and if applicable, work status of child's parent 2 or guardian 2 (PAR2EMPL).

**Poverty status:**

This indicates whether a sampled student resided in a household categorized as poor or nonpoor. NHES provides an approximate measure of poverty. The income variable used to establish whether a child resided in a household categorized as poor or nonpoor is TTLHHINC, which lists possible income ranges (e.g., \$0 to \$10,000, \$10,001 to 20,000, \$20,001 to \$30,000, up to over \$150,001). If data for TTLHHINC are missing, they are imputed. Using the income ranges and household size (HHTOTALX), poverty thresholds are then used to establish whether a child resided in a household categorized as poor or nonpoor. Thresholds to define poverty are based on weighted averages from 2011 Census poverty thresholds. A household is considered poor if a household of a particular size matches the income categories shown in exhibit B-2. Otherwise, the household is considered to be nonpoor.

**Exhibit B-2. Poverty definition in Parent and Family Involvement in Education (PFI) analyses, by household size: 2012**

Household size (HHTOTALX) <sup>1</sup>	Income categories in variable TTLHHINC
2	Less than or equal to \$10,000 (TTLHHINC = 1)
3	Less than or equal to \$20,000 (TTLHHINC = 1, 2)
4	Less than or equal to \$20,000 (TTLHHINC = 1, 2)
5	Less than or equal to \$30,000 (TTLHHINC = 1, 2, 3)
6	Less than or equal to \$30,000 (TTLHHINC = 1, 2, 3)
7	Less than or equal to \$40,000 (TTLHHINC = 1, 2, 3, 4)
8	Less than or equal to \$40,000 (TTLHHINC = 1, 2, 3, 4)

<sup>1</sup> Indicates the total number of individuals living in the household, top-coded to eight for NHES. SOURCE: U.S. Department of Education, National Center for Education Statistics, Parent Family Involvement in Education Survey of the National Household Education Surveys Program (PFI-NHES:2012); U.S. Census Bureau, Poverty Thresholds for 2011 by Size of Family and Number of Related Children Under 18 Years, <https://www.census.gov/data/tables/time-series/demo/income-poverty/historical-poverty-thresholds.html>

<sup>1</sup> For definitions of these 12 categories of community type, see Gevert, D. (2015). *Education Demographic and Geographic Estimates Program (EDGE): Locale Boundaries User's Manual* (NCES 2016-012). U.S. Department of Education. Washington, DC: National Center for Education Statistics. Retrieved March 27, 2019, from [https://nces.ed.gov/programs/edge/docs/NCES\\_LOCALE\\_USERSMANUAL\\_2016012.pdf](https://nces.ed.gov/programs/edge/docs/NCES_LOCALE_USERSMANUAL_2016012.pdf).

<sup>2</sup> In 2012 HMSCHARR, HSSCHR, and HSILLX were not asked on the PFI-Enrolled questionnaire. Therefore, it was not possible to identify homeschoolers in the same way from the PFI-Enrolled and PFI-Homeschooled surveys. For this reason, an adjustment was used to estimate the homeschooling rates in 2012. This adjustment was not needed in 2016 because these questions were added to the PFI-Enrolled questionnaire allowing for full-time and part-time homeschoolers to be consistently identified across PFI questionnaires.