

TABLE S1-5

Average NAEP technology and engineering literacy assessment scores of students in grade 8 and percentage of students scoring proficient or above, by student characteristics: 2014 and 2018

(Average score and percent)

Student characteristic	Average scale score		Percentage of students scoring proficient or above	
	2014	2018	2014	2018
All students in grade 8	150	152	43.3	46.4
Sex				
Male	149	150	41.8	44.1
Female	151	155	44.8	48.8
Race or ethnicity ^a				
White	160	163	55.6	58.5
Black or African American	128	132	18.4	23.5
Hispanic or Latino ^b	138	139	27.9	30.6
Asian or Pacific Islander	159	169	54.0	65.3
American Indian or Alaska Native	146	133	41.6	28.8
More than one race	154	157	45.0	52.7
Parents' highest education ^c				
Did not finish high school	133	138	20.4	28.5
Graduated from high school	137	138	27.4	29.1
Some education after high school	152	151	43.6	43.9
Graduated from college	159	163	55.2	58.8
Socioeconomic status ^d				
Eligible for free or reduced-price lunch	135	138	25.2	29.8
Not eligible for free or reduced-price lunch	163	164	59.3	60.3
Student disability status ^e				
Has a disability	116	118	13.0	13.2
Does not have a disability	155	157	47.0	51.2
English language learner status ^e				
English language learner	108	106	4.8	5.2
Not English language learner	152	155	45.3	49.0
Percentiles				
10th percentile	104	104	NA	NA
25th percentile	127	129	NA	NA
50th percentile	152	155	NA	NA
75th percentile	175	178	NA	NA
90th percentile	193	197	NA	NA

NA = not available.

NAEP = National Assessment of Educational Progress.

^a Other racial and ethnic groups are included but are not shown separately.^b Hispanic may be any race; race categories exclude Hispanic origin.^c Parents' highest level of education is defined by the highest level reported by eighth graders and twelfth graders for either parent. Fourth graders were not asked to indicate their parents' highest level of education because their responses in previous studies were highly variable, and a large percentage of them chose the "I don't know" option.^d NAEP uses eligibility for the federal National School Lunch Program (NSLP) as a measure of socioeconomic status. NSLP is a federally assisted meal program that provides low-cost or free lunches to eligible students. It is sometimes referred to as the free or reduced-price lunch program.^e From 1996 on, students with a disability and English language learners were allowed to use testing accommodation (e.g., extended time, one-on-one testing, bilingual dictionary). More information about testing accommodation is available at <https://nces.ed.gov/nationsreportcard/about/inclusion.asp>.

Note(s)

The scale for NAEP technology and engineering literacy assessment scores is 0–300.

Source(s)

National Science Foundation, National Center for Science and Engineering Statistics, special tabulations (2018) of the 2014 and 2018 NAEP Technology and Engineering Literacy assessment, National Center for Education Statistics, Department of Education.

Science and Engineering Indicators