

# **Technical appendix tables for 2024 science report card**

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## National Center for Education Statistics

2024 Science Grade 8 Assessment Report Card: Summary Data Tables for National Participation Rates, Proportions of SD and EL Students Identified, Accommodation Types

### Student sample sizes and target populations at grade 8 in NAEP science: 2024

Grade	Sample size	Target population
Nation	23,500	3,823,000
Public	22,100	3,518,000
Private	1,500	306,000

NOTE: In 2019, the digitally based NAEP science assessment was administered for the first time. The sample size is rounded to the nearest hundred. The target population is rounded to the nearest thousand. Data for BIE and DoDEA schools are counted in the overall national totals, but not in the public school totals. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2024 Science Assessment.

School and student participation rates at grade 8 in NAEP science, by type of school: 2024

Type of school	School participation			Student participation	
	Student-weighted percent	School-weighted percent	Number of schools participating	Student-weighted percent	Number of students assessed
Nation	89	68	600	88	23,000
Public	94	88	530	88	21,500
Private	37	35	70	92	1,500

NOTE: In 2019, the digitally based NAEP science assessment was administered for the first time. The national totals for schools include Department of Defense Education Activity (overseas and domestic schools) and Bureau of Indian Education schools, which are not included in either the public or private school totals. The national totals for students include students in these schools. The number of schools is rounded to the nearest ten. The number of students is rounded to the nearest hundred. The school participation rates are student-weighted percentages before substitution. Columns of percentages have different denominators. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2024 Science Assessment.

## National Center for Education Statistics

2024 Science Grade 8 Assessment Report Card: Summary Data Tables for National Participation Rates, Proportions of SD and EL Students Identified, Accommodation Types

### Percentage of eighth-grade students with disabilities (SD) and/or English learners (EL) identified, excluded, and assessed in NAEP science, as a percentage of all students, by SD/EL category: Various years, 2009–2024

SD/EL category	2009	2011	2015	2019	2024
SD and/or EL					
Identified	17	17	18	20	24
Excluded	2	2	2	2	2
Assessed	15	15	16	18	22
Without accommodations	5	4	5	6	9
With accommodations	10	11	12	12	13
SD					
Identified	12	12	13	14	15
Excluded	2	1	1	1	1
Assessed	11	11	12	13	13
Without accommodations	2	2	2	3	3
With accommodations	9	9	10	10	10
EL					
Identified	5	6	6	7	11
Excluded	#	#	1	#	1
Assessed	5	5	6	7	10
Without accommodations	3	3	3	4	6
With accommodations	2	2	3	3	4

# Rounds to zero.

NOTE: In 2019, the digitally based NAEP science assessment was administered for the first time. The 2019 science results include results from students who took the digitally based assessment (DBA) and students who took the paper-based assessment (PBA). Students identified as both SD and EL were counted only once under the combined SD and/or EL category, but were counted separately under the SD and EL categories. SD includes students identified as having either an Individualized Education Program or protection under Section 504 of the Rehabilitation Act of 1973. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 2009–2024 Science Assessments.

Percentage of eighth-grade students identified as students with disabilities (SD) and/or English learners (EL) excluded and assessed in NAEP science, as a percentage of identified SD and/or EL students, by SD/EL category: 2024

SD/EL category	Excluded	Assessed	Assessed without accommodations	Assessed with accommodations
SD and/or EL	8	92	38	54
SD	9	91	22	70
EL	8	92	58	35

NOTE: In 2019, the digitally based NAEP science assessment was administered for the first time. Students identified as both SD and EL were counted only once under the combined SD and/or EL category, but were counted separately under the SD and EL categories. SD includes students identified as having either an Individualized Education Program or protection under Section 504 of the Rehabilitation Act of 1973. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2024 Science Assessment.

## National Center for Education Statistics

2024 Science Grade 8 Assessment Report Card: Summary Data Tables for National Participation Rates, Proportions of SD and EL Students Identified, Accommodation Types

### Percentage of eighth-grade students identified as students with disabilities (SD) and/or English learners (EL) assessed in NAEP science with accommodations, by SD/EL category and type of accommodation: 2024

Type of accommodation	SD and/or EL	SD	EL
Bilingual booklet	0.42	0.04	0.42
Bilingual dictionary	1.57	0.11	1.57
Braille	#	#	#
Breaks during test	3.39	3.23	0.46
Cueing to stay on task	1.61	1.56	0.22
Directions only presented in Sign Language	#	#	#
Directions only translated into Spanish	0.11	0.02	0.11
Extended time	10.03	8.11	2.70
Hearing impaired version of the test	0.06	0.06	0.01
High contrast for visually impaired	0.01	0.01	#
Low mobility version of the test	#	#	#
Magnification equipment	0.04	0.04	0.01
Must be tested in a separate session	5.13	4.81	0.88
Other	0.66	0.57	0.13
Preferential seating	1.76	1.68	0.26
Presentation in Sign Language	#	#	#
Responds orally to scribe	0.14	0.14	0.01
Response in Sign Language	#	#	#
School staff administers	0.59	0.55	0.08
Special equipment	0.10	0.10	0.01
Text to speech in Spanish	0.42	0.04	0.42
Uses template	0.09	0.08	0.03

# Percentages less than .005.

NOTE: In 2019, the digitally based NAEP science assessment was administered for the first time. Students identified as both SD and EL were counted only once under the combined SD and/or EL category, but were counted separately under the SD and EL categories. SD includes students identified as having either an Individualized Education Program or protection under Section 504 of the Rehabilitation Act of 1973. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2024 Science Assessment.