NATIONAL SCIENCE BOARD SCIENCE \& ENGINEERING INDICATORS 2024

K-12 Education

## Elementary and Secondary STEM Education

## Supplemental Tables

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This publication is part of the 2024 edition of the Science and Engineering Indicators (Indicators) suite of reports. Indicators is prepared under the guidance of the National Science Board by the National Science Foundation's National Center for Science and Engineering Statistics. The Indicators suite consists of a summary report called The State of U.S. Science and Engineering, more-detailed thematic reports with supporting data, and a data tool that provides state-level indicators.

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## Table SK12-1

Average scores of 9-, 13-, and 17-year-old students on the NAEP long-term trend mathematics assessment, by student characteristic: 1978-2023

| Student age and characteristic | 1978 | 1982 | 1986 | 1990 | 1992 | 1994 | 1996 | 1999 | 2004 | 2008 | 2012 | 2020 | 2022 | 2023 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| All 9-year-old students | 219 | 219 | 222 | 230 | 230 | 231 | 231 | 232 | 239 | 243 | 244 | 241 | 234 | NA |
| Sex |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Female | 220 | 221 | 222 | 230 | 228 | 230 | 229 | 231 | 240 | 243 | 244 | 239 | 231 | NA |
| Male | 217 | 217 | 222 | 229 | 231 | 232 | 233 | 233 | 239 | 242 | 244 | 243 | 236 | NA |
| Race or ethnicity ${ }^{\text {a }, \mathrm{b}}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| American Indian or Alaska Native | s | s | 205 | s | s | s | s | s | 224 | 237 | s | 232 | 230 | NA |
| Asian or Pacific Islander | 229 | 242 | 235 | 236 | 243 | 234 | 235 | 245 | 263 | 265 | 265 | 263 | 257 | NA |
| Black | 192 | 195 | 202 | 208 | 208 | 212 | 212 | 211 | 221 | 224 | 226 | 225 | 212 | NA |
| Hispanic | 203 | 204 | 205 | 214 | 212 | 210 | 215 | 213 | 229 | 234 | 234 | 232 | 223 | NA |
| Two or more races ${ }^{\text {c }}$ | s | s | s | s | s | s | s | s | 233 | 246 | 242 | 244 | 236 | NA |
| White | 224 | 224 | 227 | 235 | 235 | 237 | 237 | 239 | 245 | 250 | 252 | 250 | 244 | NA |
| Socioeconomic status ${ }^{\text {d }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Eligible for free or reduced-price lunch | NA | NA | NA | NA | NA | NA | NA | NA | 225 | 229 | 232 | 229 | 221 | NA |
| Not eligible for free or reduced-price lunch | NA | NA | NA | NA | NA | NA | NA | NA | 249 | 253 | 257 | 254 | 249 | NA |
| Student disability status ${ }^{\text {e }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Identified as student with a disability | NA | NA | NA | NA | NA | NA | NA | NA | 209 | 214 | 216 | 215 | 206 | NA |
| Not identified as student with a disability | NA | NA | NA | NA | NA | NA | NA | NA | 243 | 246 | 247 | 245 | 238 | NA |
| English language learner status ${ }^{\text {e }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| English language learner | NA | NA | NA | NA | NA | NA | NA | NA | 222 | 224 | 225 | 222 | 215 | NA |
| Not English language learner | NA | NA | NA | NA | NA | NA | NA | NA | 241 | 245 | 247 | 244 | 237 | NA |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Midwest | NA | NA | NA | NA | NA | NA | NA | NA | 240 | 244 | 242 | 243 | 234 | NA |
| Northeast | NA | NA | NA | NA | NA | NA | NA | NA | 244 | 250 | 248 | 248 | 240 | NA |
| South | NA | NA | NA | NA | NA | NA | NA | NA | 236 | 239 | 244 | 241 | 233 | NA |
| West | NA | NA | NA | NA | NA | NA | NA | NA | 239 | 242 | 244 | 236 | 231 | NA |
| School location |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| City | NA | NA | NA | NA | NA | NA | NA | NA | NA | 239 | 239 | 236 | 229 | NA |
| Rural | NA | NA | NA | NA | NA | NA | NA | NA | NA | 243 | 244 | 242 | 237 | NA |
| Suburb | NA | NA | NA | NA | NA | NA | NA | NA | NA | 247 | 250 | 245 | 236 | NA |
| Town | NA | NA | NA | NA | NA | NA | NA | NA | NA | 238 | 238 | 242 | 236 | NA |
| Percentile |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10th percentile | 171 | 173 | 177 | 186 | 185 | 187 | 187 | 187 | 193 | 198 | 197 | 191 | 178 | NA |
| 25th percentile | 195 | 196 | 199 | 208 | 208 | 209 | 208 | 209 | 218 | 222 | 223 | 219 | 208 | NA |
| 50th percentile | 220 | 220 | 223 | 231 | 231 | 233 | 232 | 234 | 243 | 246 | 247 | 245 | 238 | NA |
| 75th percentile | 244 | 243 | 246 | 253 | 253 | 255 | 255 | 256 | 263 | 266 | 268 | 267 | 262 | NA |
| 90th percentile | 264 | 263 | 264 | 271 | 271 | 272 | 274 | 275 | 280 | 284 | 286 | 286 | 283 | NA |

## Table SK12-1

Average scores of 9-, 13-, and 17-year-old students on the NAEP long-term trend mathematics assessment, by student characteristic: 1978-2023

| Student age and characteristic | 1978 | 1982 | 1986 | 1990 | 1992 | 1994 | 1996 | 1999 | 2004 | 2008 | 2012 | 2020 | 2022 | 2023 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| All 13-year-old students | 264 | 269 | 269 | 270 | 273 | 274 | 274 | 276 | 279 | 281 | 285 | 280 | NA | 271 |
| Sex |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Female | 265 | 268 | 268 | 270 | 272 | 273 | 272 | 274 | 278 | 279 | 284 | 278 | NA | 267 |
| Male | 264 | 269 | 270 | 271 | 274 | 276 | 276 | 277 | 279 | 284 | 286 | 281 | NA | 274 |
| Race or ethnicity ${ }^{\text {a b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| American Indian or Alaska Native | s | 257 | s | s | s | s | s | s | s | 274 | s | 275 | NA | 255 |
| Asian | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 314 | 312 | NA | 303 |
| Asian or Pacific Islander | 274 | 280 | 290 | 274 | 286 | 286 | 282 | 286 | 297 | 304 | 311 | 310 | NA | 300 |
| Black | 230 | 240 | 249 | 249 | 250 | 252 | 252 | 251 | 257 | 262 | 264 | 256 | NA | 243 |
| Hispanic | 238 | 252 | 254 | 255 | 259 | 256 | 256 | 259 | 264 | 268 | 271 | 267 | NA | 257 |
| Two or more races ${ }^{\text {c }}$ | s | s | s | s | s | s | s | s | 276 | 278 | 290 | 285 | NA | 277 |
| White | 272 | 274 | 274 | 276 | 279 | 281 | 281 | 283 | 287 | 290 | 293 | 291 | NA | 285 |
| Socioeconomic status ${ }^{\text {d }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Eligible for free or reduced-price lunch | NA | NA | NA | NA | NA | NA | NA | NA | 262 | 266 | 269 | 264 | NA | 253 |
| Not eligible for free or reduced-price lunch | NA | NA | NA | NA | NA | NA | NA | NA | 288 | 290 | 296 | 294 | NA | 287 |
| Student disability status ${ }^{\text {e }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Identified as student with a disability | NA | NA | NA | NA | NA | NA | NA | NA | 243 | 246 | 249 | 242 | NA | 234 |
| Not identified as student with a disability | NA | NA | NA | NA | NA | NA | NA | NA | 282 | 285 | 289 | 285 | NA | 276 |
| English language learner status ${ }^{\mathrm{e}}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| English language learner | NA | NA | NA | NA | NA | NA | NA | NA | 245 | 252 | 250 | 242 | NA | 236 |
| Not English language learner | NA | NA | NA | NA | NA | NA | NA | NA | 280 | 283 | 287 | 283 | NA | 274 |
| U.S. region |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Midwest | NA | NA | NA | NA | NA | NA | NA | NA | 281 | 284 | 285 | 284 | NA | 273 |
| Northeast | NA | NA | NA | NA | NA | NA | NA | NA | 282 | 285 | 291 | 284 | NA | 273 |
| South | NA | NA | NA | NA | NA | NA | NA | NA | 276 | 281 | 282 | 276 | NA | 269 |
| West | NA | NA | NA | NA | NA | NA | NA | NA | 278 | 278 | 285 | 279 | NA | 270 |
| School location |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| City | NA | NA | NA | NA | NA | NA | NA | NA | NA | 277 | 282 | 273 | NA | 263 |
| Rural | NA | NA | NA | NA | NA | NA | NA | NA | NA | 280 | 283 | 281 | NA | 270 |
| Suburb | NA | NA | NA | NA | NA | NA | NA | NA | NA | 286 | 291 | 285 | NA | 277 |
| Town | NA | NA | NA | NA | NA | NA | NA | NA | NA | 282 | 276 | 274 | NA | 268 |
| Percentile |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10th percentile | 213 | 225 | 230 | 230 | 233 | 233 | 233 | 234 | 234 | 237 | 240 | 228 | NA | 213 |
| 25th percentile | 238 | 246 | 248 | 250 | 253 | 253 | 254 | 254 | 257 | 261 | 263 | 255 | NA | 244 |
| 50th percentile | 265 | 269 | 269 | 271 | 274 | 276 | 275 | 276 | 280 | 283 | 287 | 282 | NA | 274 |
| 75th percentile | 291 | 292 | 290 | 292 | 294 | 296 | 296 | 298 | 303 | 305 | 309 | 307 | NA | 301 |

Table SK12-1
Average scores of 9-, 13-, and 17-year-old students on the NAEP long-term trend mathematics assessment, by student characteristic: 1978-2023

| Student age and characteristic | 1978 | 1982 | 1986 | 1990 | 1992 | 1994 | 1996 | 1999 | 2004 | 2008 | 2012 | 2020 | 2022 | 2023 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 90th percentile | 313 | 311 | 309 | 310 | 312 | 315 | 314 | 317 | 322 | 323 | 329 | 329 | NA | 322 |
| All 17-year-old students | 300 | 298 | 302 | 305 | 307 | 306 | 307 | 308 | 305 | 306 | 306 | NA | NA | NA |
| Sex |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Female | 297 | 296 | 299 | 303 | 305 | 304 | 305 | 307 | 304 | 303 | 304 | NA | NA | NA |
| Male | 304 | 301 | 305 | 306 | 309 | 309 | 310 | 310 | 307 | 309 | 308 | NA | NA | NA |
| Race or ethnicity ${ }^{\text {a }}$, ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| American Indian or Alaska Native | 297 | s | s | s | s | s | s | s | s | 305 | s | NA | NA | NA |
| Asian or Pacific Islander | 317 | 313 | 316 | 311 | 320 | 317 | 313 | 320 | 315 | 321 | 322 | NA | NA | NA |
| Black | 268 | 272 | 279 | 289 | 286 | 286 | 286 | 283 | 284 | 287 | 288 | NA | NA | NA |
| Hispanic | 276 | 277 | 283 | 284 | 292 | 291 | 292 | 293 | 292 | 293 | 294 | NA | NA | NA |
| Two or more races ${ }^{\text {c }}$ | s | s | s | s | s | s | s | s | s | 300 | 305 | NA | NA | NA |
| White | 306 | 304 | 308 | 309 | 312 | 312 | 313 | 315 | 311 | 314 | 314 | NA | NA | NA |
| Socioeconomic status ${ }^{\text {d }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Eligible for free or reduced-price lunch | NA | NA | NA | NA | NA | NA | NA | NA | 289 | 292 | 293 | NA | NA | NA |
| Not eligible for free or reduced-price lunch | NA | NA | NA | NA | NA | NA | NA | NA | 309 | 312 | 314 | NA | NA | NA |
| Student disability status ${ }^{\text {e }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Identified as student with a disability | NA | NA | NA | NA | NA | NA | NA | NA | 276 | 277 | 276 | NA | NA | NA |
| Not identified as student with a disability | NA | NA | NA | NA | NA | NA | NA | NA | 308 | 309 | 310 | NA | NA | NA |
| English language learner status ${ }^{\text {e }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| English language learner | NA | NA | NA | NA | NA | NA | NA | NA | 280 | 279 | 271 | NA | NA | NA |
| Not English language learner | NA | NA | NA | NA | NA | NA | NA | NA | 306 | 307 | 308 | NA | NA | NA |
| U.S. region |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Midwest | NA | NA | NA | NA | NA | NA | NA | NA | 310 | 309 | 308 | NA | NA | NA |
| Northeast | NA | NA | NA | NA | NA | NA | NA | NA | 308 | 307 | 312 | NA | NA | NA |
| South | NA | NA | NA | NA | NA | NA | NA | NA | 299 | 304 | 304 | NA | NA | NA |
| West | NA | NA | NA | NA | NA | NA | NA | NA | 308 | 305 | 304 | NA | NA | NA |
| School location |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| City | NA | NA | NA | NA | NA | NA | NA | NA | NA | 302 | 302 | NA | NA | NA |
| Rural | NA | NA | NA | NA | NA | NA | NA | NA | NA | 306 | 307 | NA | NA | NA |
| Suburb | NA | NA | NA | NA | NA | NA | NA | NA | NA | 310 | 311 | NA | NA | NA |
| Town | NA | NA | NA | NA | NA | NA | NA | NA | NA | 304 | 298 | NA | NA | NA |
| Percentile |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10th percentile | 254 | 256 | 263 | 264 | 267 | 267 | 267 | 268 | 266 | 267 | 266 | NA | NA | NA |
| 25th percentile | 276 | 276 | 281 | 283 | 286 | 286 | 286 | 287 | 286 | 287 | 287 | NA | NA | NA |
| 50th percentile | 301 | 299 | 301 | 305 | 308 | 306 | 308 | 309 | 306 | 307 | 307 | NA | NA | NA |
| 75 th percentile | 325 | 321 | 323 | 327 | 328 | 327 | 329 | 330 | 327 | 327 | 328 | NA | NA | NA |

## Table SK12-1

## Average scores of 9-, 13-, and 17-year-old students on the NAEP long-term trend mathematics assessment, by student characteristic: 1978-2023

## (Average score)

| Student age and characteristic | 1978 | 1982 | 1986 | 1990 | 1992 | 1994 | 1996 | 1999 | 2004 | 2008 | 2012 | 2020 | 2022 | 2023 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 90th percentile | 345 | 341 | 343 | 345 | 345 | 345 | 346 | 347 | 343 | 343 | 345 | NA | NA | NA |

$N A=$ not available; $s=$ suppressed for reasons of confidentiality and/or reliability
NAEP = National Assessment of Educational Progress.
${ }^{\text {a }}$ Other racial and ethnic groups are included in the rows for All 9 -year-old students, All 13-year-old students, and All 17-year-old students but are not shown separately in the table.
${ }^{\text {b }}$ Hispanic may be any race; race categories exclude Hispanic origin. Black includes African American, Hispanic includes Latino, and Pacific Islander includes Native Hawaiian.
${ }^{\text {c }}$ Before 2011, students in the Two or more races category were categorized as unclassified.
 reduced-price lunch program." Information on students' eligibility for free or reduced-price lunch was first collected in 2004.
 https://nces.ed.gov/nationsreportcard/about/inclusion.asp.
Note(s):

 for 17-year-old students.

## Source(s):

 Education Statistics
Science and Engineering Indicators

## Table SK12-2

## Average scores of students in grades 4, 8, and 12 on the NAEP mathematics assessment, by student characteristic: 1990-2022

| (Average score) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Student grade and characteristic | 1990 | 1992 | 1996 | 2000 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | 2019 | 2022 |
| All students in grade 4 | 213 | 220 | 224 | 226 | 235 | 238 | 240 | 240 | 241 | 242 | 240 | 240 | 241 | 236 |
| Sex |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Female | 213 | 219 | 223 | 224 | 233 | 237 | 239 | 239 | 240 | 241 | 239 | 239 | 239 | 233 |
| Male | 214 | 221 | 224 | 227 | 236 | 239 | 241 | 241 | 241 | 242 | 241 | 241 | 242 | 239 |
| Race or ethnicity ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| American Indian or Alaska Native | s | s | 217 | 208 | 223 | 226 | 228 | 225 | 225 | 227 | 227 | 227 | 227 | 221 |
| Asian or Pacific Islander | 225 | 231 | 229 | s | 246 | 251 | 253 | 255 | 256 | 258 | 257 | 258 | 260 | 257 |
| Black | 188 | 193 | 198 | 203 | 216 | 220 | 222 | 222 | 224 | 224 | 224 | 223 | 224 | 217 |
| Hispanic ${ }^{\text {b }}$ | 200 | 202 | 207 | 208 | 222 | 226 | 227 | 227 | 229 | 231 | 230 | 229 | 231 | 224 |
| Two or more races ${ }^{\text {c }}$ | s | s | s | 224 | 237 | 241 | 241 | 243 | 245 | 245 | 245 | 245 | 244 | 239 |
| White | 220 | 227 | 232 | 234 | 243 | 246 | 248 | 248 | 249 | 250 | 248 | 248 | 249 | 246 |
| Socioeconomic status ${ }^{\text {d }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Eligible for free or reduced-price lunch | NA | NA | 207 | 208 | 222 | 225 | 227 | 227 | 229 | 230 | 229 | 228 | 229 | 223 |
| Not eligible for free or reduced-price lunch | NA | NA | 232 | 235 | 244 | 248 | 249 | 250 | 252 | 254 | 253 | 252 | 253 | 248 |
| Student disability status ${ }^{\text {e }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Identified as student with a disability | NA | NA | 204 | 198 | 214 | 219 | 220 | 221 | 218 | 218 | 218 | 214 | 214 | 212 |
| Not identified as student with a disability | NA | NA | 225 | 228 | 237 | 240 | 242 | 242 | 244 | 245 | 244 | 243 | 245 | 240 |
| English language learner status ${ }^{\mathrm{e}}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| English language learner | NA | NA | 201 | 199 | 214 | 216 | 217 | 218 | 219 | 219 | 218 | 217 | 220 | 216 |
| Not English language learner | NA | NA | 225 | 227 | 237 | 240 | 242 | 242 | 243 | 244 | 243 | 243 | 243 | 239 |
| U.S. region |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Midwest | NA | NA | NA | s | 238 | 240 | 243 | 242 | 242 | 244 | 242 | 242 | 241 | 239 |
| Northeast | NA | NA | NA | s | 238 | 241 | 245 | 244 | 244 | 244 | 242 | 242 | 243 | 235 |
| South | NA | NA | NA | s | 234 | 238 | 239 | 239 | 240 | 241 | 241 | 240 | 241 | 237 |
| West | NA | NA | NA | s | 231 | 234 | 234 | 235 | 238 | 238 | 236 | 236 | 237 | 233 |
| School location |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| City | NA | NA | NA | NA | NA | NA | 235 | 235 | 236 | 237 | 237 | 235 | 236 | 231 |
| Rural | NA | NA | NA | NA | NA | NA | 240 | 241 | 243 | 243 | 241 | 240 | 240 | 238 |
| Suburb | NA | NA | NA | NA | NA | NA | 244 | 243 | 244 | 245 | 243 | 244 | 245 | 240 |
| Town | NA | NA | NA | NA | NA | NA | 238 | 238 | 237 | 241 | 238 | 237 | 237 | 233 |
| Percentile |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10th percentile | 171 | 177 | 182 | 184 | 197 | 200 | 202 | 202 | 203 | 203 | 202 | 198 | 199 | 192 |
| 25th percentile | 193 | 199 | 203 | 205 | 216 | 220 | 222 | 221 | 222 | 222 | 221 | 219 | 220 | 214 |
| 50th percentile | 214 | 221 | 225 | 227 | 236 | 239 | 242 | 241 | 242 | 243 | 242 | 241 | 242 | 238 |
| 75th percentile | 235 | 242 | 245 | 248 | 255 | 258 | 260 | 260 | 261 | 262 | 261 | 262 | 262 | 259 |
| 90th percentile | 253 | 259 | 262 | 265 | 270 | 273 | 275 | 275 | 276 | 278 | 277 | 279 | 280 | 278 |

## Table SK12-2

## Average scores of students in grades 4, 8, and 12 on the NAEP mathematics assessment, by student characteristic: 1990-2022

| (Average score) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Student grade and characteristic | 1990 | 1992 | 1996 | 2000 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | 2019 | 2022 |
| All students in grade 8 | 263 | 268 | 270 | 273 | 278 | 279 | 281 | 283 | 284 | 285 | 282 | 283 | 282 | 274 |
| Sex |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Female | 262 | 269 | 269 | 272 | 277 | 278 | 280 | 282 | 283 | 284 | 282 | 282 | 282 | 273 |
| Male | 263 | 268 | 271 | 274 | 278 | 280 | 282 | 284 | 284 | 285 | 282 | 283 | 282 | 275 |
| Race or ethnicity ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| American Indian or Alaska Native | s | S | s | 259 | 263 | 264 | 264 | 266 | 265 | 269 | 267 | 267 | 262 | 258 |
| Asian or Pacific Islander | 275 | 290 | s | 288 | 291 | 295 | 297 | 301 | 303 | 306 | 306 | 310 | 310 | 304 |
| Black | 237 | 237 | 240 | 244 | 252 | 255 | 260 | 261 | 262 | 263 | 260 | 260 | 260 | 253 |
| Hispanic ${ }^{\text {b }}$ | 246 | 249 | 251 | 253 | 259 | 262 | 265 | 266 | 270 | 272 | 270 | 269 | 268 | 261 |
| Two or more races ${ }^{\text {c }}$ | s | 260 | s | 270 | 280 | 280 | 285 | 286 | 288 | 288 | 285 | 287 | 286 | 276 |
| White | 270 | 277 | 281 | 284 | 288 | 289 | 291 | 293 | 293 | 294 | 292 | 293 | 292 | 285 |
| Parents' highest education levelf ${ }^{\text {f }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Did not finish high school | 242 | 249 | 250 | 253 | 257 | 259 | 263 | 265 | 265 | 267 | 265 | 265 | 264 | 257 |
| Graduated from high school | 255 | 257 | 260 | 261 | 267 | 267 | 270 | 270 | 271 | 270 | 268 | 267 | 265 | 258 |
| Some education after high school | 267 | 271 | 277 | 277 | 280 | 280 | 283 | 284 | 285 | 285 | 282 | 281 | 280 | 271 |
| Graduated from college | 274 | 281 | 281 | 286 | 288 | 290 | 292 | 295 | 295 | 296 | 294 | 294 | 293 | 286 |
| Unknown | 241 | 252 | 252 | 254 | 259 | 260 | 263 | 264 | 265 | 266 | 263 | 264 | 263 | 257 |
| Socioeconomic status ${ }^{\text {d }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Eligible for free or reduced-price lunch | NA | NA | 250 | 253 | 259 | 262 | 265 | 266 | 269 | 270 | 268 | 267 | 266 | 260 |
| Not eligible for free or reduced-price lunch | NA | NA | 277 | 283 | 287 | 288 | 291 | 294 | 296 | 297 | 296 | 296 | 296 | 287 |
| Student disability status ${ }^{\text {e }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Identified as student with a disability | NA | NA | 231 | 230 | 242 | 245 | 246 | 249 | 250 | 249 | 247 | 247 | 247 | 243 |
| Not identified as student with a disability | NA | NA | 273 | 276 | 282 | 283 | 285 | 287 | 288 | 289 | 287 | 288 | 287 | 279 |
| English language learner status ${ }^{\mathrm{e}}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| English language learner | NA | NA | 226 | 234 | 242 | 244 | 246 | 243 | 244 | 246 | 246 | 246 | 243 | 241 |
| Not English language learner | NA | NA | 272 | 274 | 279 | 281 | 283 | 285 | 286 | 287 | 284 | 285 | 285 | 277 |
| U.S. region |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Midwest | NA | NA | NA | s | 283 | 283 | 284 | 287 | 287 | 288 | 285 | 286 | 286 | 277 |
| Northeast | NA | NA | NA | s | 282 | 283 | 287 | 289 | 288 | 290 | 287 | 288 | 287 | 278 |
| South | NA | NA | NA | s | 275 | 277 | 280 | 282 | 283 | 283 | 280 | 280 | 280 | 272 |
| West | NA | NA | NA | s | 273 | 275 | 276 | 277 | 279 | 281 | 280 | 281 | 279 | 273 |
| School location |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| City | NA | NA | NA | NA | NA | NA | 275 | 279 | 279 | 280 | 278 | 278 | 277 | 270 |
| Rural | NA | NA | NA | NA | NA | NA | 282 | 284 | 286 | 286 | 282 | 282 | 283 | 275 |
| Suburb | NA | NA | NA | NA | NA | NA | 286 | 287 | 287 | 289 | 286 | 288 | 287 | 279 |

## Table SK12-2

Average scores of students in grades 4, 8, and 12 on the NAEP mathematics assessment, by student characteristic: 1990-2022

| Student grade and characteristic | 1990 | 1992 | 1996 | 2000 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | 2019 | 2022 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Town | NA | NA | NA | NA | NA | NA | 280 | 279 | 282 | 282 | 279 | 278 | 277 | 269 |
| Percentile |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10th percentile | 215 | 221 | 221 | 223 | 230 | 231 | 235 | 236 | 237 | 237 | 235 | 233 | 231 | 224 |
| 25th percentile | 239 | 243 | 245 | 249 | 254 | 255 | 258 | 259 | 260 | 261 | 258 | 256 | 255 | 247 |
| 50th percentile | 264 | 269 | 273 | 275 | 279 | 280 | 283 | 284 | 285 | 286 | 283 | 283 | 282 | 274 |
| 75th percentile | 288 | 294 | 297 | 300 | 303 | 304 | 306 | 308 | 309 | 310 | 308 | 310 | 309 | 301 |
| 90th percentile | 307 | 315 | 316 | 320 | 323 | 324 | 327 | 329 | 329 | 331 | 329 | 333 | 333 | 325 |
| All students in grade 12 | NA | NA | NA | NA | NA | 150 | NA | 153 | NA | 153 | 152 | NA | 150 | NA |
| Sex |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Female | NA | NA | NA | NA | NA | 149 | NA | 152 | NA | 152 | 150 | NA | 149 | NA |
| Male | NA | NA | NA | NA | NA | 151 | NA | 155 | NA | 155 | 153 | NA | 152 | NA |
| Race or ethnicity ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| American Indian or Alaska Native | NA | NA | NA | NA | NA | 134 | NA | 144 | NA | 142 | 138 | NA | 136 | NA |
| Asian or Pacific Islander | NA | NA | NA | NA | NA | 163 | NA | 175 | NA | 172 | 170 | NA | 173 | NA |
| Black | NA | NA | NA | NA | NA | 127 | NA | 131 | NA | 132 | 130 | NA | 128 | NA |
| Hispanic ${ }^{\text {b }}$ | NA | NA | NA | NA | NA | 133 | NA | 138 | NA | 141 | 139 | NA | 138 | NA |
| Two or more races ${ }^{\text {c }}$ | NA | NA | NA | NA | NA | 142 | NA | 158 | NA | 155 | 157 | NA | 157 | NA |
| White | NA | NA | NA | NA | NA | 157 | NA | 161 | NA | 162 | 160 | NA | 159 | NA |
| Parents' highest education levelf ${ }^{\text {f }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Did not finish high school | NA | NA | NA | NA | NA | 130 | NA | 135 | NA | 137 | 133 | NA | 133 | NA |
| Graduated from high school | NA | NA | NA | NA | NA | 138 | NA | 142 | NA | 139 | 139 | NA | 136 | NA |
| Some education after high school | NA | NA | NA | NA | NA | 148 | NA | 150 | NA | 152 | 149 | NA | 147 | NA |
| Graduated from college | NA | NA | NA | NA | NA | 161 | NA | 164 | NA | 164 | 163 | NA | 161 | NA |
| Unknown | NA | NA | NA | NA | NA | 123 | NA | 129 | NA | 127 | 125 | NA | 125 | NA |
| Socioeconomic status ${ }^{\text {d }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Eligible for free or reduced-price lunch | NA | NA | NA | NA | NA | 132 | NA | 137 | NA | 139 | 137 | NA | 136 | NA |
| Not eligible for free or reduced-price lunch | NA | NA | NA | NA | NA | 155 | NA | 160 | NA | 162 | 160 | NA | 160 | NA |
| Student disability status ${ }^{\text {e }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Identified as student with a disability | NA | NA | NA | NA | NA | 114 | NA | 120 | NA | 119 | 118 | NA | 119 | NA |
| Not identified as student with a disability | NA | NA | NA | NA | NA | 153 | NA | 156 | NA | 157 | 155 | NA | 154 | NA |
| English language learner status ${ }^{\mathrm{e}}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| English language learner | NA | NA | NA | NA | NA | 120 | NA | 117 | NA | 109 | 115 | NA | 111 | NA |
| Not English language learner | NA | NA | NA | NA | NA | 151 | NA | 154 | NA | 155 | 153 | NA | 152 | NA |
| U.S. region |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Midwest | NA | NA | NA | NA | NA | 157 | NA | s | NA | 157 | 157 | NA | 153 | NA |

## Table SK12-2

## Average scores of students in grades 4, 8, and 12 on the NAEP mathematics assessment, by student characteristic: 1990-2022

(Average score)

| Student grade and characteristic | 1990 | 1992 | 1996 | 2000 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | 2019 | 2022 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Northeast | NA | NA | NA | NA | NA | 151 | NA | $s$ | NA | 156 | 156 | NA | 154 | NA |
| South | NA | NA | NA | NA | NA | 146 | NA | S | NA | 152 | 148 | NA | 147 | NA |
| West | NA | NA | NA | NA | NA | 148 | NA | s | NA | 151 | 149 | NA | 150 | NA |
| School location |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| City | NA | NA | NA | NA | NA | NA | NA | 152 | NA | 149 | 148 | NA | 149 | NA |
| Rural | NA | NA | NA | NA | NA | NA | NA | 151 | NA | 153 | 152 | NA | 148 | NA |
| Suburb | NA | NA | NA | NA | NA | NA | NA | 157 | NA | 158 | 155 | NA | 154 | NA |
| Town | NA | NA | NA | NA | NA | NA | NA | 151 | NA | 151 | 150 | NA | 147 | NA |
| Percentile |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10th percentile | NA | NA | NA | NA | NA | 105 | NA | 110 | NA | 111 | 107 | NA | 104 | NA |
| 25th percentile | NA | NA | NA | NA | NA | 127 | NA | 130 | NA | 131 | 128 | NA | 125 | NA |
| 50th percentile | NA | NA | NA | NA | NA | 151 | NA | 154 | NA | 154 | 152 | NA | 150 | NA |
| 75th percentile | NA | NA | NA | NA | NA | 174 | NA | 177 | NA | 177 | 175 | NA | 175 | NA |
| 90th percentile | NA | NA | NA | NA | NA | 194 | NA | 197 | NA | 197 | 196 | NA | 196 | NA |

NA = not available; s = suppressed for reasons of confidentiality and/or reliability
NAEP = National Assessment of Educational Progress.
 Islander includes Native Hawaiian.
${ }^{\text {b }}$ Hispanic may be any race; race categories exclude Hispanic origin. Hispanic includes Latino.
${ }^{c}$ Before 2011, students in the Two or more races category were categorized as unclassified.
 often referred to as the "free or reduced-price lunch program." Information on students' eligibility for free or reduced-price lunch was first collected in 1996
 accommodations is available at https://nces.ed.gov/nationsreportcard/about/inclusion.asp.
 previous studies were highly variable, and a large percentage of them chose the "I don't know" option.

## Note(s):


 assessment was not conducted in 2007, 2011, 2017, or 2022 for grade 12.

Source(s):
 Center for Education Statistics.

Science and Engineering Indicators

## Table SK12-3

Students in grades 4 and 8 scoring NAEP Proficient or above in mathematics, by student characteristic: 1990-2022

## (Percent)

| Student grade and characteristic | 1990 | 1992 | 1996 | 2000 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | 2019 | 2022 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| All students in grade 4 | 13 | 18 | 21 | 24 | 32 | 36 | 39 | 39 | 40 | 42 | 40 | 40 | 41 | 36 |
| Sex |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Female | 12 | 16 | 20 | 22 | 30 | 34 | 37 | 37 | 39 | 41 | 38 | 38 | 38 | 32 |
| Male | 13 | 19 | 22 | 26 | 35 | 38 | 41 | 41 | 42 | 43 | 42 | 42 | 44 | 40 |
| Race or ethnicity ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| American Indian or Alaska Native | s | s | 10 | 8 | 17 | 21 | 25 | 21 | 22 | 23 | 23 | 24 | 24 | 22 |
| Asian or Pacific Islander | 22 | 28 | 27 | s | 48 | 55 | 58 | 60 | 62 | 64 | 62 | 64 | 66 | 61 |
| Black | 1 | 2 | 3 | 5 | 10 | 13 | 15 | 16 | 17 | 18 | 19 | 19 | 20 | 15 |
| Hispanic ${ }^{\text {b }}$ | 5 | 6 | 7 | 7 | 16 | 19 | 22 | 22 | 24 | 26 | 26 | 26 | 28 | 22 |
| Two or more races ${ }^{\text {c }}$ | s | s | s | 16 | 33 | 40 | 40 | 42 | 45 | 46 | 45 | 45 | 44 | 38 |
| White | 16 | 22 | 27 | 31 | 43 | 47 | 51 | 51 | 52 | 54 | 51 | 51 | 52 | 48 |
| Socioeconomic status ${ }^{\text {d }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Eligible for free or reduced-price lunch | NA | NA | 8 | 8 | 15 | 19 | 22 | 22 | 24 | 25 | 24 | 25 | 26 | 20 |
| Not eligible for free or reduced-price lunch | NA | NA | 27 | 32 | 45 | 49 | 53 | 54 | 57 | 59 | 58 | 57 | 58 | 51 |
| Student disability status ${ }^{\text {e }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Identified as student with a disability | NA | NA | 5 | 6 | 13 | 16 | 19 | 19 | 17 | 18 | 16 | 16 | 17 | 16 |
| Not identified as student with a disability | NA | NA | 22 | 25 | 35 | 39 | 42 | 42 | 43 | 45 | 44 | 44 | 45 | 40 |
| English language learner status ${ }^{\mathrm{e}}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| English language learner | NA | NA | 4 | 4 | 9 | 11 | 13 | 12 | 14 | 14 | 14 | 14 | 16 | 14 |
| Not English language learner | NA | NA | 22 | 25 | 35 | 39 | 42 | 42 | 44 | 45 | 43 | 43 | 44 | 40 |


| U.S. region |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Midwest | NA | NA | NA | s | 36 | 39 | 43 | 43 | 43 | 45 | 43 | 43 | 43 | 40 |
| Northeast | NA | NA | NA | s | 37 | 41 | 47 | 46 | 46 | 45 | 43 | 43 | 44 | 36 |
| South | NA | NA | NA | s | 31 | 35 | 37 | 37 | 38 | 41 | 40 | 40 | 41 | 36 |
| West | NA | NA | NA | s | 28 | 32 | 34 | 34 | 38 | 38 | 35 | 35 | 37 | 33 |
| School location |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| City | NA | NA | NA | NA | NA | NA | 34 | 34 | 35 | 36 | 36 | 35 | 36 | 31 |
| Rural | NA | NA | NA | NA | NA | NA | 39 | 39 | 43 | 44 | 40 | 40 | 40 | 37 |
| Suburb | NA | NA | NA | NA | NA | NA | 45 | 45 | 45 | 46 | 44 | 45 | 46 | 41 |
| Town | NA | NA | NA | NA | NA | NA | 37 | 35 | 35 | 40 | 36 | 36 | 37 | 32 |
| All students in grade 8 | 15 | 21 | 23 | 26 | 29 | 30 | 32 | 34 | 35 | 35 | 33 | 34 | 34 | 26 |
| Sex |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Female | 14 | 21 | 22 | 24 | 27 | 28 | 30 | 32 | 34 | 35 | 33 | 33 | 33 | 25 |
| Male | 17 | 21 | 25 | 27 | 30 | 31 | 34 | 36 | 36 | 36 | 34 | 35 | 34 | 28 |

[^0]
## Table SK12-3

Students in grades 4 and 8 scoring NAEP Proficient or above in mathematics, by student characteristic: 1990-2022
(Percent)

| Student grade and characteristic | 1990 | 1992 | 1996 | 2000 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | 2019 | 2022 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| American Indian or Alaska Native | s | s | s | 10 | 15 | 14 | 16 | 18 | 17 | 21 | 20 | 18 | 15 | 13 |
| Asian or Pacific Islander | 29 | 43 | s | 41 | 43 | 47 | 50 | 54 | 55 | 60 | 59 | 62 | 62 | 56 |
| Black | 5 | 2 | 4 | 5 | 7 | 9 | 11 | 12 | 13 | 14 | 13 | 13 | 14 | 9 |
| Hispanic ${ }^{\text {b }}$ | 7 | 7 | 8 | 8 | 12 | 13 | 15 | 17 | 20 | 21 | 19 | 20 | 20 | 14 |
| Two or more races ${ }^{\text {c }}$ | s | 11 | s | 22 | 29 | 30 | 35 | 37 | 39 | 38 | 36 | 37 | 38 | 28 |
| White | 18 | 26 | 30 | 34 | 37 | 39 | 42 | 44 | 44 | 45 | 43 | 44 | 44 | 35 |
| Parents' highest education level ${ }^{\text {f }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Did not finish high school | 3 | 6 | 7 | 8 | 9 | 11 | 12 | 14 | 15 | 16 | 14 | 16 | 15 | 11 |
| Graduated from high school | 9 | 10 | 13 | 15 | 17 | 17 | 19 | 19 | 20 | 19 | 17 | 17 | 17 | 12 |
| Some education after high school | 16 | 20 | 26 | 25 | 28 | 28 | 32 | 32 | 33 | 33 | 30 | 30 | 29 | 20 |
| Graduated from college | 24 | 33 | 34 | 38 | 40 | 42 | 44 | 47 | 47 | 48 | 46 | 46 | 45 | 38 |
| Unknown | 5 | 9 | 10 | 10 | 12 | 13 | 15 | 16 | 16 | 17 | 16 | 17 | 17 | 13 |
| Socioeconomic status ${ }^{\text {d }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Eligible for free or reduced-price lunch | NA | NA | 8 | 9 | 12 | 13 | 15 | 17 | 19 | 20 | 18 | 18 | 18 | 13 |
| Not eligible for free or reduced-price lunch | NA | NA | 28 | 34 | 37 | 39 | 42 | 45 | 47 | 49 | 48 | 48 | 48 | 38 |
| Student disability status ${ }^{\mathrm{e}}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Identified as student with a disability | NA | NA | 3 | 4 | 6 | 7 | 8 | 9 | 9 | 9 | 8 | 9 | 9 | 7 |
| Not identified as student with a disability | NA | NA | 25 | 27 | 31 | 32 | 34 | 37 | 38 | 39 | 37 | 38 | 38 | 30 |
| English language learner status ${ }^{\text {e }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| English language learner | NA | NA | 1 | 2 | 5 | 6 | 7 | 5 | 5 | 5 | 6 | 6 | 5 | 4 |
| Not English language learner | NA | NA | 24 | 26 | 30 | 31 | 34 | 35 | 36 | 37 | 35 | 36 | 36 | 29 |
| U.S. region |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Midwest | NA | NA | NA | s | 33 | 33 | 35 | 38 | 37 | 39 | 36 | 37 | 37 | 29 |
| Northeast | NA | NA | NA | s | 33 | 34 | 38 | 40 | 39 | 42 | 39 | 39 | 39 | 31 |
| South | NA | NA | NA | s | 25 | 27 | 30 | 32 | 33 | 33 | 30 | 31 | 31 | 24 |
| West | NA | NA | NA | s | 26 | 27 | 29 | 29 | 31 | 32 | 32 | 33 | 32 | 25 |
| School location |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| City | NA | NA | NA | NA | NA | NA | 27 | 30 | 30 | 31 | 30 | 31 | 30 | 24 |
| Rural | NA | NA | NA | NA | NA | NA | 32 | 34 | 36 | 36 | 32 | 33 | 33 | 25 |
| Suburb | NA | NA | NA | NA | NA | NA | 38 | 38 | 38 | 40 | 37 | 39 | 38 | 31 |
| Town | NA | NA | NA | NA | NA | NA | 29 | 29 | 32 | 32 | 28 | 29 | 28 | 21 |

NA = not available; s = suppressed for reasons of confidentiality and/or reliability.
NAEP = National Assessment of Educational Progress.
${ }^{\text {a O Other racial and ethnic groups are included in the rows for All students in grade } 4 \text { and All students in grade } 8 \text { but are not shown separately in the table. Black includes African American, and Pacific }}$ Islander includes Native Hawaiian.
${ }^{\mathrm{b}}$ Hispanic may be any race; race categories exclude Hispanic origin. Hispanic includes Latino.
${ }^{\text {c }}$ Before 2011, students in the Two or more races category were categorized as unclassified.
${ }^{d}$ 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." Information on students' eligibility for free or reduced-price lunch was first collected in 1996.
${ }^{\text {e }}$ 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 accommodations is available at https://nces.ed.gov/nationsreportcard/about/inclusion.asp.
${ }^{\mathrm{f}}$ Parents' highest education level is defined by the highest level reported by eighth 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.

## Note(s):

The scale for NAEP mathematics assessment scores is $0-500$ for grades 4 and 8 . From 1996 to 2022, data shown are for students allowed to use testing accommodations.

## Source(s):

National Center for Science and Engineering Statistics, special tabulations (2022) of the 1990, 1992, 1996, 2000, 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2017, 2019, and 2022 NAEP mathematics assessments, National Center for Education Statistics.

Science and Engineering Indicators

Table SK12-4
Average scores of students in grades 4 and 8 on the main NAEP mathematics assessment, by state and U.S. jurisdiction: 2022 (Average score)

| State | Grade 4 | Grade 8 |
| :---: | :---: | :---: |
| National public average score | 235 | 273 |
| Alabama | 230 | 264 |
| Alaska | 226 | 270 |
| Arizona | 232 | 271 |
| Arkansas | 228 | 267 |
| California | 230 | 270 |
| Colorado | 236 | 275 |
| Connecticut | 236 | 276 |
| Delaware | 226 | 264 |
| District of Columbia | 223 | 260 |
| DoDEA | 250 | 292 |
| Florida | 241 | 271 |
| Georgia | 235 | 271 |
| Hawaii | 237 | 270 |
| Idaho | 236 | 282 |
| Illinois | 237 | 275 |
| Indiana | 239 | 279 |
| Iowa | 240 | 277 |
| Kansas | 235 | 272 |
| Kentucky | 234 | 269 |
| Louisiana | 229 | 266 |
| Maine | 233 | 273 |
| Maryland | 229 | 269 |
| Massachusetts | 242 | 284 |
| Michigan | 232 | 273 |
| Minnesota | 239 | 280 |
| Mississippi | 234 | 266 |
| Missouri | 232 | 272 |
| Montana | 239 | 277 |
| Nebraska | 242 | 279 |
| Nevada | 229 | 269 |
| New Hampshire | 239 | 279 |
| New Jersey | 239 | 281 |
| New Mexico | 221 | 259 |
| New York | 227 | 274 |
| North Carolina | 236 | 274 |
| North Dakota | 240 | 278 |
| Ohio | 238 | 276 |
| Oklahoma | 229 | 264 |
| Oregon | 228 | 270 |
| Pennsylvania | 238 | 274 |
| Puerto Rico | 178 | 216 |
| Rhode Island | 234 | 270 |
| South Carolina | 234 | 269 |
| South Dakota | 239 | 281 |
| Tennessee | 236 | 272 |
| Texas | 239 | 273 |
| Utah | 240 | 282 |
| Vermont | 234 | 276 |
| Virginia | 236 | 279 |
| Washington | 235 | 276 |

Table SK12-4
Average scores of students in grades 4 and 8 on the main NAEP mathematics assessment, by state and U.S. jurisdiction: 2022
(Average score)

| State | Grade 4 | Grade 8 |
| :--- | ---: | ---: |
| West Virginia | 226 | 260 |
| Wisconsin | 240 | 281 |
| Wyoming | 243 | 281 |

DoDEA $=$ Department of Defense Education Activity; NAEP $=$ National Assessment of Educational Progress.

## Note(s):

The scale for NAEP mathematics assessment scores is $0-500$ for grades 4 and 8 . Data shown are for students allowed to use testing accommodations.

## Source(s):

National Center for Science and Engineering Statistics, special tabulations (2022) of the 2022 main NAEP mathematics assessment, National Center for Education Statistics.

Science and Engineering Indicators

Table SK12-5
Average scores of students in grades 4 and 8 on the main NAEP mathematics assessment, by large urban district: 2022
(Average score)

| U.S. district | Grade 4 | Grade 8 |
| :--- | ---: | ---: |
| Large urban district average score | 227 | 266 |
| Albuquerque | 223 | 260 |
| Atlanta | 224 | 263 |
| Austin | 239 | 273 |
| Baltimore City | 201 | 245 |
| Boston | 227 | 270 |
| Charlotte | 234 | 278 |
| Chicago | 222 | 263 |
| Clark County (NV) | 225 | 267 |
| Cleveland | 203 | 245 |
| Dallas | 231 | 260 |
| Denver | 227 | 265 |
| Detroit | 194 | 238 |
| District of Columbia (DCPS) | 224 | 257 |
| Duval County (FL) | 237 | 269 |
| Fort Worth (TX) | 226 | 259 |
| Fresno | NA | NA |
| Guilford County (NC) | 229 | 270 |
| Hillsborough County (FL) | 241 | 269 |
| Houston | 226 | 265 |
| Jefferson County (KY) | 224 | 263 |
| Los Angeles | 220 | 262 |
| Miami-Dade | 241 | 274 |
| Milwaukee | 206 | 246 |
| New York City | 222 | 269 |
| Philadelphia | 209 | 252 |
| San Diego | 232 | 274 |
| Shelby County (TN) | 216 | 251 |
|  |  |  |

NA = not available.
DCPS = District of Columbia Public Schools; NAEP = National Assessment of Educational Progress.

## Note(s):

The scale for NAEP mathematics assessment scores is $0-500$ for grades 4 and 8 . Data shown are for students allowed to use testing accommodations.

## Source(s):

National Center for Science and Engineering Statistics, special tabulations (2022) of the 2022 main NAEP mathematics assessment, National Center for Education Statistics.

## Science and Engineering Indicators

Table SK12-6
Average and percentile scores of students in grade 4 on the TIMSS mathematics scale and percentile score Average and percitipating advanced economies, by education system: 2019

| Education system | Averagescore |  | Percentile ${ }^{\text {a }}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $\begin{gathered} \text { 10th } \\ \text { percentile } \\ \text { score } \end{gathered}$ | $\begin{gathered} \text { 90th } \\ \text { percentile } \end{gathered}$ score | 90th-10th percentile score gap |  |
| Participating advanced economy overall average | 541 |  | 442 | 634 | 192 |  |
| Singapore | 625 | * | 519 | 720 | 201 |  |
| Hong Kong | 602 | * | 509 | 689 | 179 |  |
| South Korea | 600 | * | 509 | 687 | 178 |  |
| Taiwan | 599 | * | 513 | 681 | 167 |  |
| Japan | 593 |  | 502 | 680 | 178 |  |
| Russia | 567 | * | 479 | 653 | 174 |  |
| Northern Ireland | 566 | * | 449 | 672 | 223 |  |
| England | 556 | * | 445 | 665 | 221 |  |
| Ireland | 548 | * | 446 | 643 | 197 |  |
| Latvia | 546 | * | 454 | 629 | 176 |  |
| Norway | 543 | * | 446 | 636 | 191 |  |
| Lithuania | 542 | * | 442 | 636 | 193 |  |
| Austria | 539 |  | 455 | 623 | 168 |  |
| Netherlands | 538 |  | 457 | 615 | 159 |  |
| United States | 535 |  | 421 | 639 | 219 |  |
| Czechia | 533 |  | 435 | 626 | 191 |  |
| Belgium | 532 |  | 445 | 619 | 174 |  |
| Cyprus | 532 |  | 428 | 632 | 203 |  |
| Finland | 532 |  | 431 | 628 | 197 |  |
| Portugal | 525 | * | 424 | 621 | 196 |  |
| Denmark | 525 | * | 429 | 618 | 189 |  |
| Sweden | 521 | * | 425 | 615 | 190 |  |
| Germany | 521 | * | 431 | 609 | 178 |  |
| Austraia | 516 | * | 401 | 625 | 224 |  |
| Italy | 515 | * | 427 | 598 | 170 |  |
| Canada | 512 | * | 412 | 608 | 196 |  |
| Slovakia | 510 | * | 406 | 600 | 194 |  |
| Malta | 509 | * | 404 | 602 | 197 |  |
| Spain | 502 | * | 405 | 594 | 189 |  |
| New Zealand | 487 | * | 368 | 602 | 234 |  |
| France | 485 | * | 379 | 586 | 206 |  |

 These columns show the threshold (or cut) scores for the 10 th percentile e the bottom $10 \%$ of
system's distribution of scores, enabling users to compare scores across education systems.
Note(s):
 ot classify Russia as an advanced economy, but it is included in this analysis because it is a large economy with high levels of student achievement.

Source(s):
International Association for the Evaluation of Educational Achievement, TIMSS, 2019.
Science and Engineering Indicators

Table SK12-7
Average and percentile scores of students in grade 4 on the TIMSS science scale and percentile score gaps among participating advanced economies, by education system: 2019

| Education system | Average score |  | Percentile ${ }^{\text {a }}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $\begin{aligned} & \text { 10th } \\ & \text { percentile } \\ & \text { score } \end{aligned}$ score | 90th percentile score | 90th-10th percentile score gap |  |
| Participating advanced economy, overall average | 531 |  | 436 | 619 | 184 |  |
| Singapore | 595 |  | 493 | 687 | 194 |  |
| South Korea | 588 |  | 504 | 671 | 167 |  |
| Russia | 567 | * | 484 | 646 | 162 |  |
| Japan | 562 | * | 473 | 645 | 172 |  |
| Taiwan | 558 |  | 471 | 639 | 168 |  |
| Finland | 555 | * | 464 | 640 | 176 |  |
| Latvia | 542 |  | 458 | 619 | 162 |  |
| Norway | 539 |  | 451 | 622 | 171 |  |
| United States | 539 |  | 426 | 641 | 214 |  |
| Lithuania | 538 |  | 443 | 628 | 185 |  |
| Sweden | 537 |  | 439 | 629 | 190 |  |
| England | 537 |  | 444 | 626 | 182 |  |
| Czechia | 534 |  | 443 | 619 | 175 |  |
| Australia | 533 |  | 427 | 629 | 202 |  |
| Hong Kong | 531 |  | 438 | 620 | 182 |  |
| Ireland | 528 | * | 427 | 620 | 192 |  |
| Canada | 523 |  | 429 | 613 | 184 |  |
| Denmark | 522 |  | 433 | 607 | 174 |  |
| Austria | 522 |  | 424 | 614 | 190 |  |
| Slovakia | 521 |  | 415 | 612 | 198 |  |
| Northern Ireland | 518 |  | 424 | 606 | 182 |  |
| Netherlands | 518 |  | 434 | 599 | 165 |  |
| Germany | 518 |  | 416 | 613 | 197 |  |
| Cyprus | 511 |  | 412 | 606 | 195 |  |
| Spain | 511 |  | 422 | 595 | 173 |  |
| Italy | 510 |  | 424 | 592 | 168 |  |
| Portugal | 504 |  | 416 | 587 | 172 |  |
| New Zealand | 503 |  | 392 | 605 | 214 |  |
| Belgium | 501 |  | 412 | 584 | 172 |  |
| Malta | 496 |  | 382 | 598 | 216 |  |
| France | 488 | * | 382 | 583 | 201 |  |

## IMSS = Trends in International Mathematics and Science Study.

 education system's distribution of scores, enabling users to compare scores across education systems.
Note(s)
 MF does not classify Russia as an advanced economy, but it is included in this analysis because it is a large economy with high levels of student achievement.
Source(s):
international Association for the Evaluation of Educational Achievement, TIMSS, 201
Science and Engineering Indicators

Table SK12-8
U.S. students in grade 8 reaching the TIMSS Advanced International Benchmark in mathematics and science: 1995-2019 (Percent)

| Subject | 1995 | 1999 | 2003 | 2007 | 2011 | 2015 | 2019 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Mathematics | 4 | 7 | 7 | 6 | 7 | 10 | 14 |
| Science | 11 | 12 | 11 | 10 | 10 | 12 |  |

TIMSS = Trends in International Mathematics and Science Study.
Note(s):
The Advanced International Benchmark is a score of 625 or higher.
Source(s):
International Association for the Evaluation of Educational Achievement, TIMSS, 1995, 1999, 2003, 2007, 2011, 2015, and 2019.
Science and Engineering Indicators

Table SK12-9
Average scores of U.S. students in grade 8 on the TIMSS mathematics and science assessments, by student sex: 1995-2019
(Average score)

| Subject and student sex | 1995 | 1999 | 2003 | 2007 | 2011 | 2015 | 2019 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Mathematics |  |  |  |  |  |  |  |
| Female | 490 | 498 | 502 | 507 | 508 | 517 | 517 |
| Male | 495 | 505 | 507 | 510 | 511 | 519 | 514 |
| Science | 505 | 505 | 519 | 514 | 519 | 527 | 525 |
| Female | 520 | 524 | 536 | 526 | 530 | 533 | 520 |
| Male |  |  |  |  |  |  |  |

TIMSS = Trends in International Mathematics and Science Study.
Note(s):
Scores are reported on a scale from 0 to 1,000 , with a TIMSS centerpoint of 500 and a standard deviation of 100 .

## Source(s):

International Association for the Evaluation of Educational Achievement, TIMSS, 1995, 1999, 2003, 2007, 2011, 2015, and 2019.

## Science and Engineering Indicators

Table SK12-10
High school graduates who earned Carnegie credits in STEM advanced mathematics courses, advanced science and engineering courses, and STEM-related technical courses, by STEM course: 1990-2019
(Percent)

| STEM course | 1990 | 2000 | 2009 | 2019 |
| :---: | :---: | :---: | :---: | :---: |
| Advanced mathematics courses | 57 | 74 | 83 | 89 |
| Algebra II | 56 | 71 | 80 | 85 |
| Precalculus and analysis | 14 | 27 | 36 | 39 |
| Calculus | 7 | 13 | 18 | 16 |
| Other advanced mathematics | 12 | 14 | 20 | 26 |
| Advanced science and engineering courses | 63 | 79 | 85 | 88 |
| Advanced biology | 22 | 31 | 33 | 35 |
| Chemistry | 51 | 65 | 72 | 75 |
| Advanced environmental and earth science | 5 | 9 | 11 | 16 |
| Physics | 23 | 32 | 36 | 38 |
| Engineering | 0 | 3 | 4 | 12 |
| STEM-related technical courses | 28 | 41 | 36 | 39 |
| Engineering and science technologies | 3 | 10 | 9 | 7 |
| Health science and technology | 3 | 10 | 10 | 17 |
| Computer science | 23 | 26 | 22 | 20 |

STEM = science, technology, engineering, and mathematics.

## Note(s):

Advanced mathematics covers courses in algebra II, trigonometry, precalculus and analysis, probability and statistics, and calculus. Other advanced mathematics courses include primarily trigonometry and statistics and probability courses. Advanced biology courses include Advanced Placement (AP) and International Baccalaureate (IB) biology, physiology, anatomy, and genetics courses. Advanced environmental and earth science courses include AP and IB environmental science, college preparatory earth science, and various geology courses. Engineering and science technologies courses focus on instrumentation, equipment maintenance, and other technical tasks conducted in engineering and science-related occupations. One Carnegie credit is defined as 120 hours of class instruction over the course of a secondary school year.

## Source(s):

Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress High School Transcript Study, 1990, 2000, 2009, and 2019.

Table SK12-11
High school graduates who earned Carnegie credits in any STEM course, by student sex and race or ethnicity: 1990-2019
(Percent)

| Characteristic | 1990 | 2000 | 2009 | 2019 |
| :---: | :---: | :---: | :---: | :---: |
| All students | 77 | 91 | 94 | 97 |
| Sex |  |  |  |  |
| Female | 78 | 92 | 95 | 97 |
| Male | 75 | 90 | 94 | 96 |
| Race or ethnicity |  |  |  |  |
| Asian or Pacific Islander | 85 | 96 | 98 | 99 |
| Black | 70 | 91 | 93 | 96 |
| Hispanic | 67 | 87 | 91 | 96 |
| White | 78 | 91 | 95 | 97 |

STEM = science, technology, engineering, and mathematics.
Note(s):
Hispanic may be any race; race categories exclude Hispanic origin. Black includes African American, Hispanic includes Latino, and Pacific Islander includes Native Hawaiian. High School Transcript Study (HSTS) racial or ethnic group trend reporting does not include American Indian or Alaska Native or Other categories. One Carnegie credit is defined as 120 hours of class instruction over the course of a secondary school year.

## Source(s):

Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress HSTS, 1990, 2000, 2009, and 2019.

Science and Engineering Indicators

Table SK12-12
High school completers enrolled in college in October after completing high school, by demographic characteristics and institution type: 1975-2021
(Percent)

| Year | All graduates | Sex |  | Family income ${ }^{\text {a }}$ |  |  | Race or ethnicity ${ }^{\text {b }}$ |  |  |  | Parents' highest education level ${ }^{\text {c }}$ |  |  |  | Institution type |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Male | Female | Low | Middle | High | White | Black | Hispanic | Asian | Less than high school | High school diploma or equivalent | Some college | Bachelor's or higher degree | 2-year | 4-year |
| 1975 | 51 | 53 | 49 | 31 | 46 | 65 | 49 | 45 | 53 | NA | NA | NA | NA | NA | 18 | 33 |
| 1976 | 49 | 47 | 50 | 39 | 41 | 63 | 50 | 45 | 54 | NA | NA | NA | NA | NA | 16 | 33 |
| 1977 | 51 | 52 | 49 | 28 | 44 | 66 | 50 | 47 | 49 | NA | NA | NA | NA | NA | 17 | 33 |
| 1978 | 50 | 51 | 49 | 31 | 44 | 64 | 50 | 48 | 46 | NA | NA | NA | NA | NA | 17 | 33 |
| 1979 | 49 | 50 | 48 | 31 | 43 | 63 | 50 | 45 | 46 | NA | NA | NA | NA | NA | 18 | 32 |
| 1980 | 49 | 47 | 52 | 33 | 43 | 65 | 52 | 44 | 50 | NA | NA | NA | NA | NA | 19 | 30 |
| 1981 | 54 | 55 | 53 | 34 | 49 | 68 | 52 | 40 | 49 | NA | NA | NA | NA | NA | 20 | 33 |
| 1982 | 51 | 49 | 52 | 33 | 42 | 71 | 54 | 39 | 49 | NA | NA | NA | NA | NA | 19 | 32 |
| 1983 | 53 | 52 | 53 | 35 | 45 | 70 | 56 | 38 | 47 | NA | NA | NA | NA | NA | 19 | 34 |
| 1984 | 55 | 56 | 54 | 35 | 48 | 74 | 58 | 40 | 49 | NA | NA | NA | NA | NA | 19 | 36 |
| 1985 | 58 | 59 | 57 | 40 | 51 | 75 | 59 | 40 | 46 | NA | NA | NA | NA | NA | 20 | 38 |
| 1986 | 54 | 56 | 52 | 34 | 49 | 71 | 58 | 43 | 42 | NA | NA | NA | NA | NA | 19 | 35 |
| 1987 | 57 | 58 | 55 | 37 | 50 | 74 | 59 | 44 | 45 | NA | NA | NA | NA | NA | 19 | 38 |
| 1988 | 59 | 57 | 61 | 43 | 55 | 73 | 60 | 50 | 49 | NA | NA | NA | NA | NA | 22 | 37 |
| 1989 | 60 | 58 | 62 | 48 | 55 | 71 | 62 | 48 | 53 | NA | NA | NA | NA | NA | 21 | 39 |
| 1990 | 60 | 58 | 62 | 47 | 54 | 77 | 63 | 49 | 52 | 81 | NA | NA | NA | NA | 20 | 40 |
| 1991 | 63 | 58 | 67 | 40 | 58 | 78 | 64 | 47 | 53 | 81 | NA | NA | NA | NA | 25 | 38 |
| 1992 | 62 | 60 | 64 | 41 | 57 | 79 | 64 | 50 | 58 | 81 | 33 | 56 | 68 | 81 | 23 | 39 |
| 1993 | 63 | 60 | 65 | 50 | 57 | 79 | 64 | 51 | 56 | 83 | 47 | 52 | 63 | 88 | 23 | 40 |
| 1994 | 62 | 61 | 63 | 43 | 58 | 78 | 64 | 52 | 55 | 82 | 43 | 50 | 65 | 83 | 21 | 41 |
| 1995 | 62 | 63 | 61 | 34 | 56 | 84 | 65 | 53 | 52 | 83 | 27 | 47 | 70 | 88 | 22 | 40 |
| 1996 | 65 | 60 | 70 | 49 | 63 | 78 | 67 | 55 | 58 | 83 | 45 | 56 | 67 | 85 | 23 | 42 |
| 1997 | 67 | 64 | 70 | 57 | 61 | 82 | 68 | 59 | 55 | 83 | 51 | 62 | 63 | 86 | 23 | 44 |
| 1998 | 66 | 62 | 69 | 46 | 65 | 78 | 68 | 60 | 52 | 84 | 50 | 57 | 68 | 82 | 24 | 41 |
| 1999 | 63 | 61 | 64 | 48 | 60 | 75 | 67 | 59 | 47 | 81 | 36 | 54 | 60 | 82 | 21 | 42 |
| 2000 | 63 | 60 | 66 | 50 | 60 | 77 | 65 | 56 | 49 | 81 | 44 | 52 | 64 | 81 | 21 | 42 |
| 2001 | 62 | 60 | 63 | 44 | 56 | 80 | 66 | 56 | 53 | 78 | 39 | 52 | 62 | 81 | 20 | 42 |
| 2002 | 65 | 62 | 68 | 56 | 61 | 78 | 67 | 57 | 55 | 72 | 43 | 52 | 66 | 83 | 22 | 44 |
| 2003 | 64 | 61 | 67 | 53 | 58 | 80 | 68 | 60 | 58 | 74 | 43 | 54 | 63 | 82 | 21 | 42 |
| 2004 | 67 | 61 | 72 | 48 | 63 | 80 | 69 | 59 | 58 | 82 | 40 | 55 | 67 | 86 | 22 | 44 |
| 2005 | 69 | 66 | 70 | 54 | 65 | 81 | 73 | 58 | 58 | 81 | 43 | 62 | 66 | 89 | 24 | 45 |
| 2006 | 66 | 66 | 66 | 51 | 61 | 81 | 70 | 56 | 58 | 85 | 43 | 56 | 67 | 78 | 25 | 41 |
| 2007 | 67 | 66 | 68 | 58 | 63 | 78 | 70 | 56 | 62 | 86 | 45 | 52 | 65 | 86 | 24 | 43 |
| 2008 | 69 | 66 | 72 | 56 | 65 | 82 | 71 | 60 | 62 | 90 | 44 | 57 | 72 | 82 | 28 | 41 |
| 2009 | 70 | 66 | 74 | 54 | 67 | 84 | 71 | 62 | 61 | 88 | 40 | 58 | 74 | 82 | 28 | 42 |

## Table SK12-12

High school completers enrolled in college in October after completing high school, by demographic characteristics and institution type: 1975-2021 (Percent)

| Year | All graduates | Sex |  | Family income ${ }^{\text {a }}$ |  |  | Race or ethnicity ${ }^{\text {b }}$ |  |  |  | Parents' highest education level ${ }^{\text {c }}$ |  |  |  | Institution type |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Male | Female | Low | Middle | High | White | Black | Hispanic | Asian | Less than high school | High school diploma or equivalent | Some college | Bachelor's or higher degree | 2-year | 4-year |
| 2010 | 68 | 63 | 74 | 51 | 67 | 82 | 70 | 66 | 62 | 87 | 51 | 58 | 71 | 84 | 27 | 41 |
| 2011 | 68 | 65 | 72 | 54 | 66 | 82 | 68 | 62 | 66 | 84 | s | 54 | 67 | 83 | 26 | 42 |
| 2012 | 66 | 61 | 71 | 51 | 65 | 81 | 68 | 60 | 66 | 82 | 61 | 57 | 66 | 77 | 29 | 37 |
| 2013 | 66 | 64 | 68 | 46 | 64 | 79 | 67 | 61 | 65 | 84 | 43 | 52 | 64 | 83 | 24 | 42 |
| 2014 | 68 | 64 | 73 | 58 | 64 | 84 | 69 | 61 | 65 | 84 | 54 | 56 | 67 | 81 | 25 | 44 |
| 2015 | 69 | 66 | 73 | 69 | 62 | 83 | 70 | 61 | 69 | 88 | 56 | 57 | 65 | 82 | 25 | 44 |
| 2016 | 70 | 67 | 72 | 65 | 65 | 83 | 70 | 57 | 68 | 86 | 50 | 57 | 67 | 84 | 24 | 46 |
| 2017 | 67 | 61 | 72 | NA | NA | NA | 70 | 61 | 67 | 82 | 47 | 62 | 62 | 77 | 23 | 44 |
| 2018 | 69 | 67 | 71 | NA | NA | NA | 69 | 58 | 63 | 82 | 58 | 54 | 69 | 79 | 26 | 44 |
| 2020 | 63 | 59 | 66 | NA | NA | NA | 65 | 55 | 59 | 86 | NA | NA | NA | NA | 20 | 43 |
| 2021 | 62 | 55 | 70 | NA | NA | NA | 64 | 58 | 57 | 84 | NA | NA | NA | NA | 19 | 43 |

NA = not available; $s=$ suppressed for reasons of confidentiality and/or reliability.
${ }^{\text {a }}$ Family income is categorized as follows: low income includes families in the lowest $20 \%$ of income distribution, middle income includes families in the middle $60 \%$, and high income includes families in the highest $20 \%$.


 includes Latino. Black includes African American.
${ }^{c}$ Parents' highest education level refers to the highest level of education achieved by either parent.

## Note(s):




## Source(s):

For parents' highest education level: National Center for Education Statistics, special tabulations (2020) of the Current Population Survey, Bureau of Labor Statistics.
 through 2021.
 current_tables.asp.
Science and Engineering Indicators


[^0]:    Race or ethnicity

