



2015 Mathematics Results

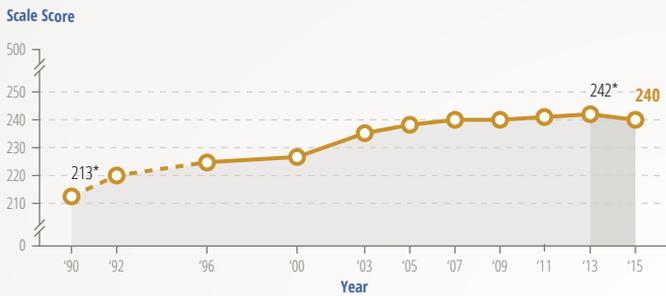


The National Assessment of Educational Progress (NAEP) measures the progress of our nation's fourth and eighth graders in mathematics and reading.

HAVE THE NATION'S STUDENTS **MADE GAINS** IN **MATHEMATICS**?

NAEP has monitored how student performance in mathematics has changed over the last three decades. It reports these scores as a national average at grades 4 and 8 grade. Since 2013, average mathematics scores declined at grades 4 and 8, but scores were higher than those recorded in 1990.

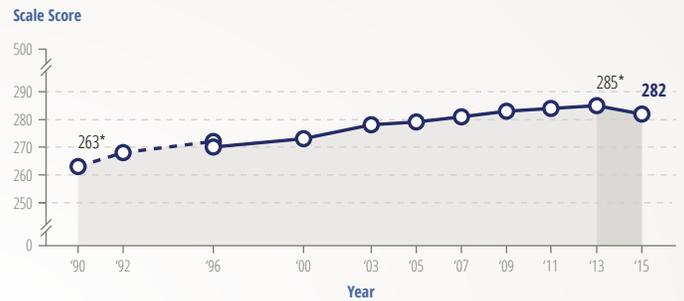
Grade 4 Trend Line



The dashed line indicates years in which NAEP was administered and accommodations were not available for students taking the assessment.

* Significantly different ($p < .05$) from 2015

Grade 8 Trend Line



* Significantly different ($p < .05$) from 2015

WHAT PERCENTAGE OF **STUDENTS** ARE AT OR ABOVE **PROFICIENT**?

NAEP also reports student performance by achievement level: *Basic*, *Proficient* and *Advanced*. Students reaching *Proficient* demonstrate competency over challenging subject matter. Percentages of students at grades 4 and 8 scoring at or above *Proficient* in mathematics declined by two percentage points from 2013. The percentage of students scoring below *Basic* also increased.

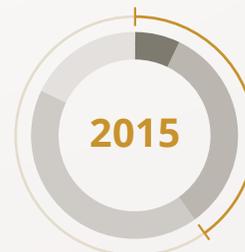
Advanced
 Proficient
 Basic
 Below Basic

Grade 4 Achievement levels



42%

Percentage at or above *Proficient*



40%

Percentage at or above *Proficient*

Grade 8 Achievement levels



35%

Percentage at or above *Proficient*



33%

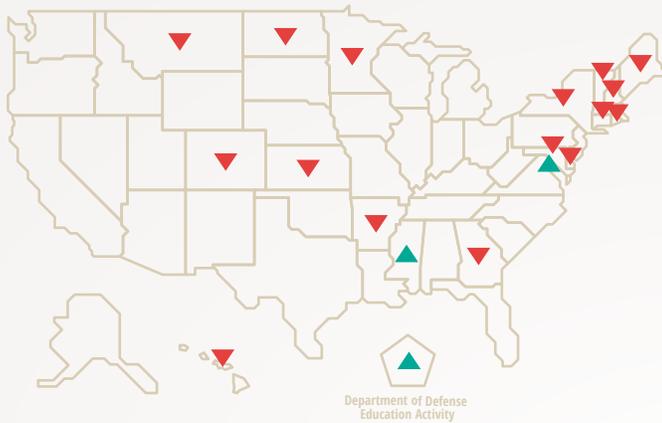
Percentage at or above *Proficient*

HOW ARE STUDENTS IN AMERICA'S STATES PERFORMING?

NAEP reports average mathematics scores by state, providing a closer look at where changes in student performance occurred. In grade 4 mathematics, Mississippi, the District of Columbia, and the Department of Defense schools made gains and 16 states had declines. In grade 8 no states made gains and 22 states had declines.

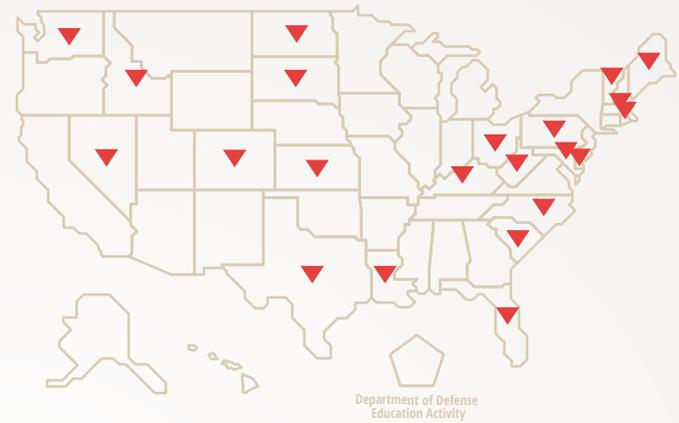
▲ Indicates increases in score ▼ Indicates decreases in score

Grade 4 State Performance from 2013-2015



| | |
|---|-----------------------------------------------------------------|
| ▲ | DC, MS, DoDEA. |
| ▼ | AR, CO, CT, DE, GA, HI, KS, MD, ME, MN, MT, ND, NH, NY, RI, VT. |

Grade 8 State Performance from 2013-2015

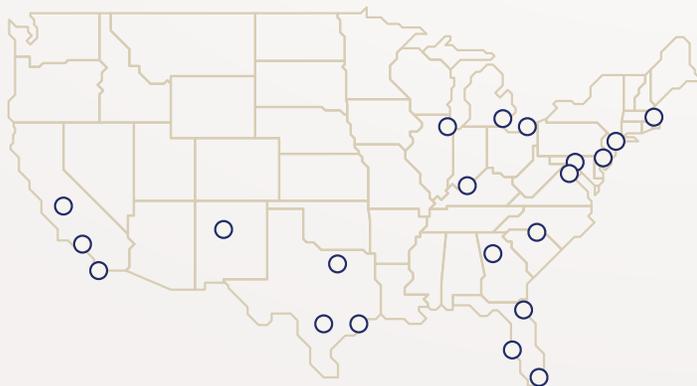


| | |
|---|-----------------------------------------------------------------------------------------|
| ▼ | CO, DE, FL, ID, KS, KY, LA, MA, MD, ME, NC, ND, NV, OH, PA, RI, SC, SD, TX, VT, WA, WV. |
|---|-----------------------------------------------------------------------------------------|

HOW ARE STUDENTS IN AMERICA'S DISTRICTS PERFORMING?

NAEP measures student progress in America's large cities through the Trial Urban District Assessment. Fourth and eighth graders in 21 urban districts participated in the mathematics and reading assessments in 2015.

Since 2013, mathematics scores increased in 4 districts and decreased in 10 districts in at least one grade.



| Score Change | Grade 4 | Grade 8 |
|--------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| ▲ | Dallas District of Columbia (DCPS) Miami-Dade | Chicago |
| ▼ | Albuquerque Atlanta Baltimore City Los Angeles New York City Philadelphia San Diego | Dallas Hillsborough County (FL) Houston |