

NAEP 2007—Grade 4 Mathematics Overall Results



**NATIONAL ASSESSMENT
OF EDUCATIONAL
PROGRESS**

National Assessment of Educational Progress 2007 Report for Florida

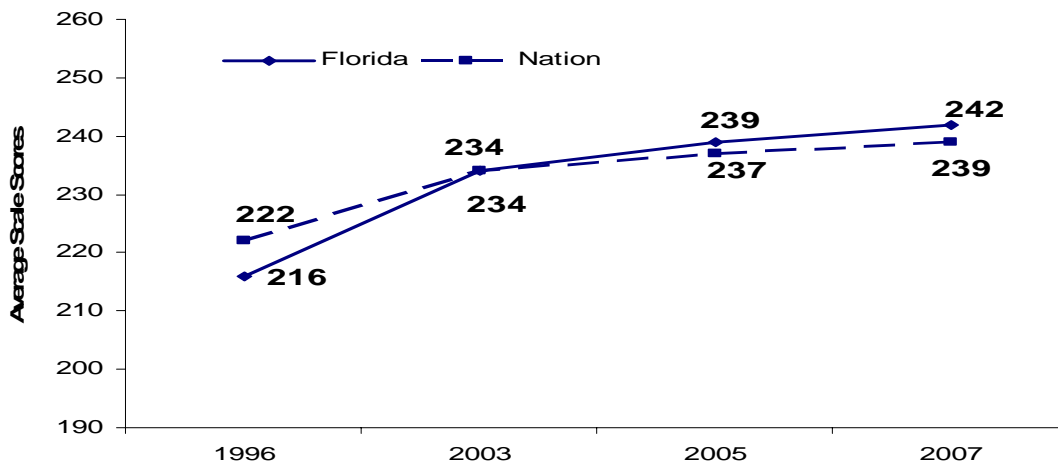
Highlights of Grade 4 Mathematics

In 2007, 52 jurisdictions participated in the NAEP Grade 4 Mathematics assessment: 50 states, the Department of Defense Schools, and Washington, D.C.

- Florida's Grade 4 students scored 242, three points higher than the national average score of 239.
- Florida's Grade 4 students improved 28 points in mathematics between 1992 and 2007—from 214 to 242.
- Florida's Grade 4 students improved three points in mathematics between 2005 and 2007—from 239 to 242.
- Florida was one of only 23 states whose NAEP Grade 4 mathematics average scale score increased between 2005 and 2007.

Average Scale Scores Florida and the Nation

Figure 1
NAEP Grade 4 Mathematics 1996¹–2007



¹ Accommodations were not permitted for this assessment.

NAEP 2007—Grade 4 Mathematics Overall Results

Highlights

Florida's 2007 Grade 4 mathematics average scale score (242) was significantly higher than in 1996 (216), 2003 (234), and 2005 (239).

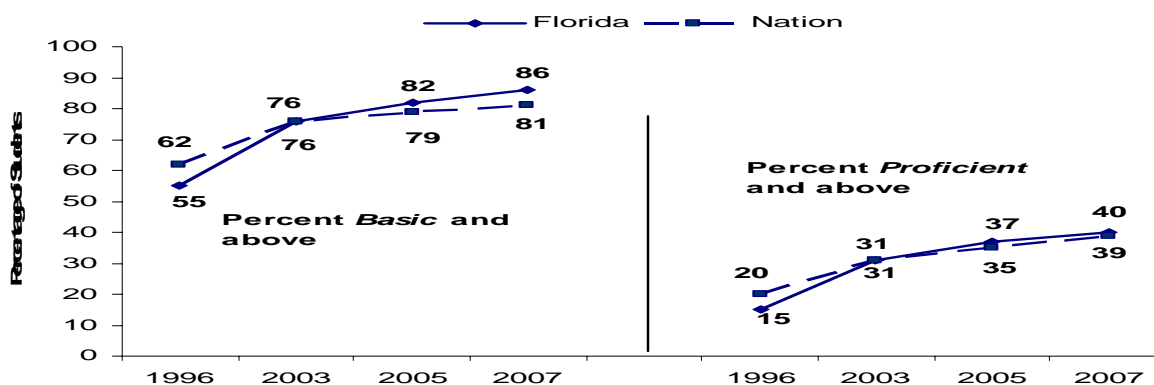
Florida's 2007 Grade 4 mathematics average scale score was significantly higher than the nation's (242 vs. 239).

This is the third consecutive assessment (2003, 2005, and 2007) in which Florida's Grade 4 students have performed equal to or higher than the national average in mathematics; improving a total of 26 points since 1996 (216 vs. 242). This improvement moves Florida from performing 6 points below the nation in 1996 to 3 points higher than the nation in 2007. The nation's improvement during that same period was 17 points (222 vs. 239).

Florida was one of 23 states with average scale score increases from 2005 to 2007, and one of 42 states with average scale score increases between 1992 and 2007.

Percentage of Students Performing at or Above *Basic* and *Proficient* Achievement Levels Florida and the Nation

Figure 2
NAEP Grade 4 Mathematics 1996¹–2007



Highlights

In 2007, a significantly higher percentage of Florida's Grade 4 students performed at or above *Basic* (86 percent vs. 82 percent) and at or above *Proficient* (40 percent vs. 37 percent) in mathematics than in 2005. Both 2007 achievement level results were higher than the nation's (86 percent vs. 81 percent for at or above *Basic* and 40 percent vs. 39 percent for at or above *Proficient*).

Florida's improvement since 1996 was greater than the nation's.

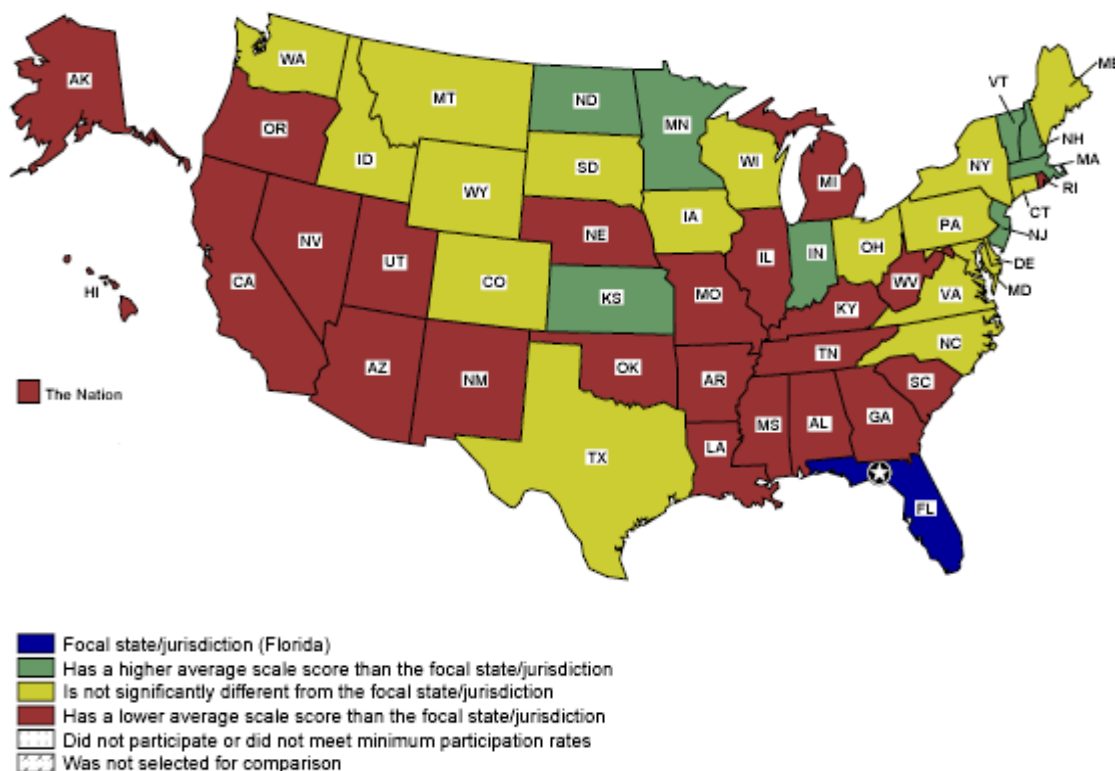
- at or above *Basic*:
 - Florida – 55 percent to 86 percent, a 31-percentage point increase
 - Nation – 62 percent to 81 percent, a 19-percentage point increase
- at or above *Proficient*:
 - Florida – 15 percent to 40 percent, a 25-percentage point increase
 - Nation – 20 percent to 39 percent, a 19-percentage point increase

¹ Accommodations were not permitted for this assessment.

NAEP 2007—Grade 4 Mathematics Overall Results

Grade 4 Mathematics Average Scale Scores

Figure 3
Florida's National Standing in 2007



¹ Department of Defense Education Activity schools (domestic and overseas).

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2007 Mathematics Assessments.

In 2007, Florida's NAEP Grade 4 mathematics average scale score (242) was

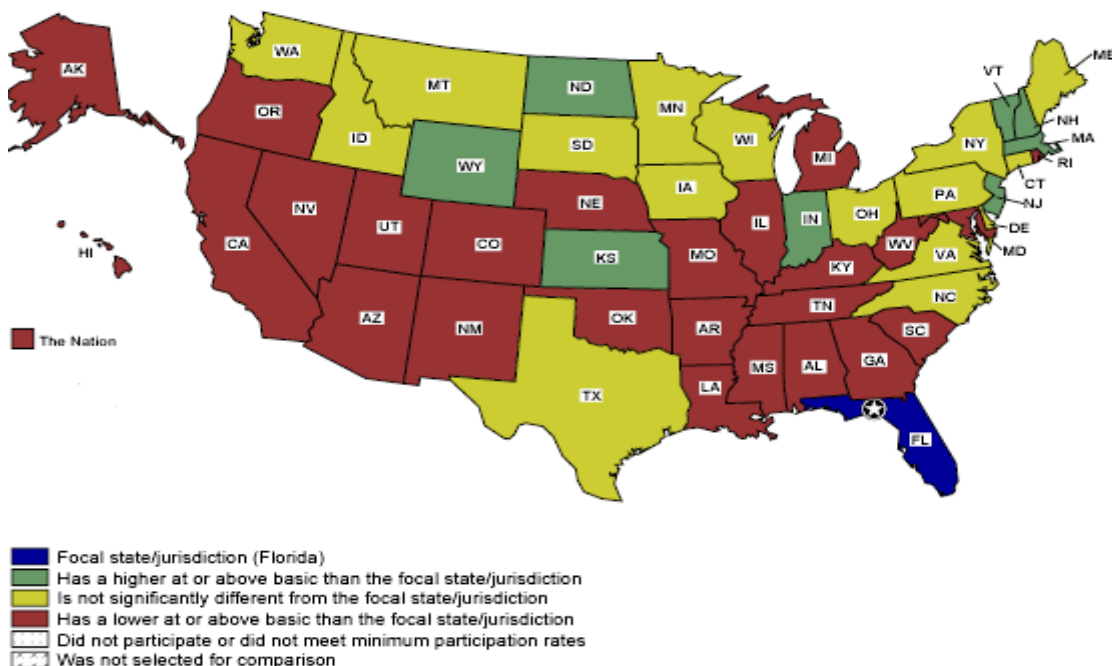
- **higher than the nation and 23 states:**
Missouri, Utah, Arkansas, Nebraska, Michigan, Oklahoma, South Carolina, Alaska, Illinois, Rhode Island, West Virginia, Oregon, Georgia, Kentucky, Hawaii, Tennessee, Nevada, Arizona, California, Louisiana, Alabama, New Mexico, and Mississippi.*
- **not significantly different from 18 states:**
Ohio, Wyoming, Montana, Pennsylvania, Virginia, Wisconsin, Iowa, New York, Washington, Connecticut, Delaware, Texas, *Florida*, Maine, North Carolina, Idaho, South Dakota, Maryland, and Colorado.*
- **lower than eight states:**
Massachusetts, New Hampshire, New Jersey, Kansas, Minnesota, Vermont, North Dakota, and Indiana.*

*Within each group, states are listed from highest to lowest performance.

NAEP 2007—Grade 4 Mathematics Overall Results

Grade 4 Mathematics Achievement Levels Percent at or above *Basic*

Figure 4
Florida's National Standing in 2007



¹ Department of Defense Education Activity schools (domestic and overseas).

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2007 Mathematics Assessments.

In 2007, the percentage of Florida's Grade 4 students who scored at or above *Basic* (86 percent) in mathematics was

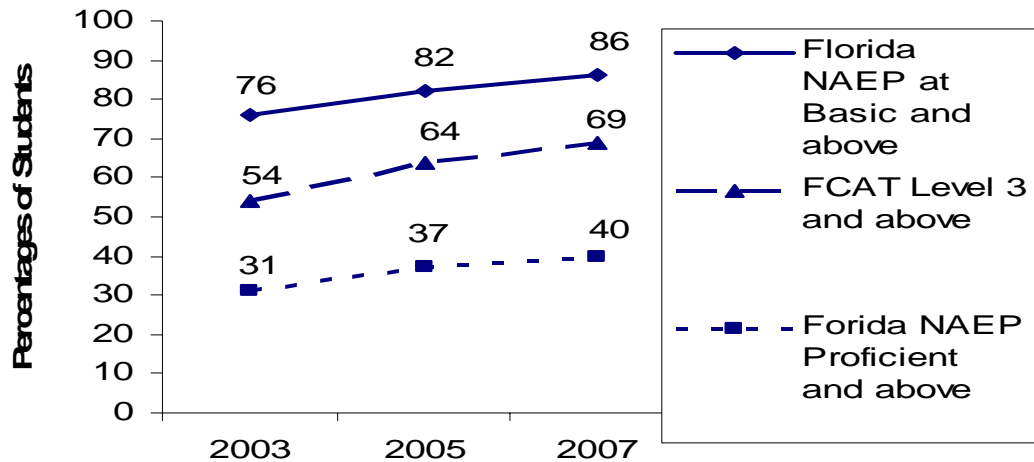
- **higher than the nation and 25 states:**
Utah, Missouri, Oklahoma, Colorado, West Virginia, Arkansas, South Carolina, Rhode Island, Maryland, Nebraska, Michigan, Georgia, Kentucky, Oregon, Alaska, Illinois, Hawaii, Tennessee, Nevada, Arizona, Louisiana, California, New Mexico, Alabama, and Mississippi.*
- **not significantly different from 16 states:**
Montana, Texas, Virginia, Delaware, Iowa, Minnesota, Ohio, *Florida*, South Dakota, Idaho, New York, Pennsylvania, Maine, North Carolina, Wisconsin, Washington, and Connecticut.*
- **lower than eight states:**
Massachusetts, New Hampshire, North Dakota, New Jersey, Vermont, Kansas, Indiana, and Wyoming.*

*Within each group, states are listed from highest to lowest performance.

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Grade 4 Mathematics Comparison of FCAT and Florida NAEP Proficiency Results

Figure 6
FCAT and NAEP



Highlights

The percentage of Florida's Grade 4 students scoring at FCAT Level 3 and above in mathematics increased 15 percentage points between 2003 and 2007 (54 percent vs. 69 percent).

The improvement in FCAT is similar to the trend in Florida's Grade 4 NAEP mathematics results for the percentage at or above *Basic*, where the scores increased 10 percentage points (76 percent vs. 86 percent).

The improvement in Florida's Grade 4 NAEP mathematics results for the percent at or above *Proficient* has also shown a steady upward trend, increasing 9 percentage points (31 percent vs. 40 percent) between 2003 and 2007.