2022
National Assessment of Educational Progress
Grade 4 Mathematics Results
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| **NAEP Basic (214)** | Fourth-grade students performing at the **NAEP Basic** level should show some evidence of understanding the mathematical concepts and procedures in the five NAEP content areas (number properties and operations; measurement; geometry; data analysis, statistics, and probability; algebra).

Fourth-graders performing at the **NAEP Basic** level should be able to estimate and use basic facts to perform simple computations with whole numbers, show some understanding of fractions and decimals, and solve some simple real-world problems in all NAEP content areas. Students at this level should be able to use—though not always accurately—four-function calculators, rulers, and geometric shapes. Their written responses will often be minimal and presented without supporting information. |
| **NAEP Proficient (249)** | Fourth-grade students performing at the **NAEP Proficient** level should consistently apply integrated procedural knowledge and conceptual understanding to problem solving in the five NAEP content areas (number properties and operations; measurement; geometry; data analysis, statistics, and probability; algebra).

Fourth-graders performing at the **NAEP Proficient** level should be able to use whole numbers to estimate, compute, and determine whether results are reasonable. They should have a conceptual understanding of fractions and decimals; be able to solve real-world problems in all NAEP content areas; and use four-function calculators, rulers, and geometric shapes appropriately. Students performing at the **NAEP Proficient** level should employ problem-solving strategies such as identifying and using appropriate information. Their written solutions should be organized and presented both with supporting information and explanations of how they were achieved. |
| **NAEP Advanced (282)** | Fourth-grade students performing at the **NAEP Advanced** level should apply integrated procedural knowledge and conceptual understanding to complex and nonroutine real-world problem solving in the five NAEP content areas (number properties and operations; measurement; geometry; data analysis, statistics, and probability; algebra).

Fourth-graders performing at the **NAEP Advanced** level should be able to solve complex and nonroutine real-world problems in all NAEP content areas. They should display mastery in the use of four-function calculators, rulers, and geometric shapes. The students are expected to draw logical conclusions and justify answers and solution processes by explaining why, as well as how, they were achieved. They should go beyond the obvious in their interpretations and be able to communicate their thoughts clearly and concisely. |
## Florida NAEP Results Summary: 2003-2022

### Mathematics

<table>
<thead>
<tr>
<th>Grade</th>
<th>Year</th>
<th>Average Scale Score</th>
<th>Percentage of Students by Achievement Level</th>
<th>Percentage At or Above NAEP Basic</th>
<th>Percentage At or Above NAEP Proficient</th>
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<tr>
<td>4</td>
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NOTE: The NAEP Mathematics scale ranges from 0 to 500. Observed differences are not necessarily statistically significant.

### NAEP Grade 4 Mathematics
Average Scale Score Data - Florida (FL) and National Public (NP)

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<td>↓5pts compared to 2019, ↑7pts compared to 2003</td>
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<td>235</td>
<td>↓5pts compared to 2019, ↔ compared to 2003</td>
</tr>
<tr>
<td>FL Compared to NP</td>
<td>↔</td>
<td>↑</td>
<td>↑</td>
<td>↑</td>
<td>↔</td>
<td>↔</td>
<td>↑</td>
<td>↑</td>
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<td></td>
</tr>
</tbody>
</table>

↑ = significantly higher  ↓ = significantly lower  ↔ = not significantly different

NOTE: Calculations were performed using unrounded numbers.
### NAEP Grade 4 Mathematics
Achievement Level Data - Florida (FL) and National Public (NP)

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<tr>
<th>Year</th>
<th>FL % At or Above Basic</th>
<th>NP % At or Above Basic</th>
<th>FL Rank Among States</th>
<th>NP Rank Among States</th>
<th>FL Compared to NP</th>
<th>NP Compared to FL</th>
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<td>↔</td>
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**2022 Results Summary**

<table>
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<th>NP % At or Above Basic</th>
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<tbody>
<tr>
<td>76</td>
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<td>81</td>
<td>74</td>
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</tbody>
</table>

**2022 Results Summary**

- **FL % At or Above Basic**: 76 - 81 (↓6% compared to 2019, ↑6% compared to 2003)
- **NP % At or Above Basic**: 76 - 74 (↓6% compared to 2019, ↓2% compared to 2003)

**FL Compared to NP**

- ↔ = not significantly different
- ↑ = significantly higher
- ↓ = significantly lower

**NOTE**: Observed differences are not necessarily statistically significant. Detail may not sum to totals due to rounding.

**NOTE**: Calculations were performed using unrounded numbers.
NAEP Grade 4 Mathematics
Average Scale Scores: 2003-2022
By Race/Ethnicity

NOTE: The NAEP Mathematics scale ranges from 0 to 500. Observed differences are not necessarily statistically significant.

NAEP Grade 4 Mathematics
Average Scale Score Data - Florida (FL) and National Public (NP)
By Race/Ethnicity
<table>
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<td>267</td>
<td>267</td>
<td>263</td>
<td>↔ compared to 2019</td>
</tr>
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<td></td>
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<td>NP Asian/PI</td>
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<td>257</td>
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<td>↑11pts compared to 2003</td>
</tr>
<tr>
<td>FL Compared to NP</td>
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<td>↑</td>
<td>↔</td>
<td>↔</td>
<td>↑</td>
<td>↔</td>
<td></td>
</tr>
</tbody>
</table>

↑ = significantly higher   ↓ = significantly lower   ↔ = not significantly different

NOTE: Calculations were performed using unrounded numbers.
NAEP Grade 4 Mathematics
Average Scale Scores: 2003-2022
By Subgroup (SD, ELL, NSLP)

NOTE: The NAEP Mathematics scale ranges from 0 to 500. Observed differences are not necessarily statistically significant.

NAEP Grade 4 Mathematics
Average Scale Score Data - Florida (FL) and National Public (NP)
By Subgroup - Students with Disabilities (SD), English Language Learners (ELL), Students Eligible for National School Lunch Program (NSLP)

<table>
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<th>Year</th>
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2022 Results Summary
- ↑13pts compared to 2003
- ↓2pts compared to 2019
- ↓3pts compared to 2003
- ↔ compared to 2019

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2022 Results Summary
- ↓9pts compared to 2019
- ↑4pts compared to 2019
- ↔ compared to 2003
- ↑ compared to 2003

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2022 Results Summary
- ↓6pts compared to 2019
- ↑11pts compared to 2003
- ↔ compared to 2003
- ↓6pts compared to 2019

↑ = significantly higher  ↓ = significantly lower  ↔ = not significantly different
NOTE: Calculations were performed using unrounded numbers.
NAEP Grade 4 Mathematics
Average Scale Score Data - Florida (FL) and National Public (NP)
By Charter School Status

### Florida

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#### Results Summary
- FL Charter Compared to FL Non-Charter
  - ↔ compared to 2019
  - ↔ compared to 2005

### National Public

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#### Results Summary
- NP Charter Compared to NP Non-Charter
  - ↓ 6pts compared to 2019
  - ↓ 2pts compared to 2005

### Results Summary
- ↑ = significantly higher
- ↓ = significantly lower
- ↔ = not significantly different
- ‡ Reporting standards not met.

NOTE: Calculations were performed using unrounded numbers.
### NAEP Grade 4 Mathematics

**Percentiles: 2003-2022**

**Florida**

<table>
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<th>Year</th>
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**National Public**

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<td>201</td>
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↑ = significantly higher   ↓ = significantly lower   ↔ = not significantly different

**NOTE:** Calculations were performed using unrounded numbers.
NAEP Grade 4 Mathematics
Average Scale Score Data - Florida (FL) and National Public (NP)
White-Black Gaps

<table>
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<tr>
<th>Year</th>
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<th>FL Black</th>
<th>FL White-Black Gap</th>
<th>FL Gap Rank Among States</th>
<th>NP White</th>
<th>NP Black</th>
<th>NP White-Black Gap</th>
<th>FL Gap Compared to NP Gap</th>
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<td>↔</td>
</tr>
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<td>247</td>
<td>224</td>
<td>23</td>
<td>#14</td>
<td>246</td>
<td>220</td>
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<td>225</td>
<td>25</td>
<td>#22</td>
<td>248</td>
<td>222</td>
<td>26</td>
<td>↔</td>
</tr>
<tr>
<td>2009</td>
<td>250</td>
<td>228</td>
<td>22</td>
<td>#13</td>
<td>248</td>
<td>222</td>
<td>25</td>
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<tr>
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<td>250</td>
<td>228</td>
<td>23</td>
<td>#13</td>
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<td>↔</td>
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<td>↔</td>
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<td>25</td>
<td>↔</td>
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<td>233</td>
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<td>#16</td>
<td>248</td>
<td>224</td>
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<td>↔</td>
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</table>

NOTE: The NAEP Mathematics scale ranges from 0 to 500. Observed differences are not necessarily statistically significant. Calculations were performed using unrounded numbers.

> = significantly larger  < = significantly smaller  ↔ = not significantly different

NOTE: Calculations were performed using unrounded numbers.
NAEP Grade 4 Mathematics
Average Scale Score Data - Florida (FL) and National Public (NP)
White-Hispanic Gaps

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<td>250</td>
<td>251</td>
<td>251</td>
<td>254</td>
<td>254</td>
<td>253</td>
<td>&gt; 5pts compared to 2019</td>
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<td>Florida Hispanic</td>
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<td>240</td>
<td>240</td>
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</tr>
<tr>
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<td>#4</td>
<td>#6</td>
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<td>#9</td>
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<tr>
<td>FL Gap Compared to NP Gap</td>
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<td>&lt;</td>
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<td>&lt;</td>
<td>↔ compared to 2003</td>
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</tbody>
</table>

> = significantly larger  < = significantly smaller  ↔ = not significantly different

NOTE: Calculations were performed using unrounded numbers.
NOTE: The NAEP Mathematics scale ranges from 0 to 500. Observed differences are not necessarily statistically significant. Calculations were performed using unrounded numbers.

### NAEP Grade 4 Mathematics
#### Average Scale Score Data - Florida (FL) and National Public (NP)

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<th>FL Not SD-SD Gap</th>
<th>FL Gap Rank Among States</th>
<th>National Public Not SD</th>
<th>National Public SD</th>
<th>NP Not SD-SD Gap</th>
<th>FL Gap Compared to NP Gap</th>
</tr>
</thead>
<tbody>
<tr>
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<td>214 227 223</td>
<td>24 14 22</td>
<td>#27 #1 #23 #1 #5 #1 #1 #1</td>
<td>236 240 241 242 243 244 243 244 239</td>
<td>214 218 220 220 218 217 214 214 211</td>
<td>22 21 21 25 26 26 29 30 28</td>
<td>↔ &lt; ↔ &lt; &lt; &lt; &lt; &lt; &lt;</td>
</tr>
</tbody>
</table>

> = significantly larger  < = significantly smaller  ↔ = not significantly different

NOTE: Calculations were performed using unrounded numbers.
NAEP Grade 4 Mathematics
Average Scale Scores: 2003-2022

Not ELL-ELL Gaps

Florida
National Public

NOTE: The NAEP Mathematics scale ranges from 0 to 500. Observed differences are not necessarily statistically significant. Calculations were performed using unrounded numbers.

NAEP Grade 4 Mathematics
Average Scale Score Data - Florida (FL) and National Public (NP)
Not ELL-ELL Gaps

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</table>

> = significantly larger  < = significantly smaller  ↔ = not significantly different
NOTE: Calculations were performed using unrounded numbers.
NAEP Grade 4 Mathematics

Average Scale Scores: 2003-2022

Not NSLP-NSLP Gaps

NOTE: The NAEP Mathematics scale ranges from 0 to 500. Observed differences are not necessarily statistically significant. Calculations were performed using unrounded numbers.

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> = significantly larger  < = significantly smaller  ↔ = not significantly different

NOTE: Calculations were performed using unrounded numbers.
## NAEP Grade 4 Mathematics
### State Comparisons
#### Average Scale Scores and Achievement Level Percentages: 2022

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<th>Average Scale Score</th>
<th>State Average Scale Score Comparisons - Percentage At or Above NAEP Basic</th>
<th>Rank</th>
<th>Jurisdiction</th>
<th>% At or Above Basic</th>
<th>State Achievement Level Comparisons - Percentage At or Above NAEP Proficient</th>
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* = significantly higher than FL score
** = not significantly different from FL score
*** = significantly lower than FL score
NAEP Grade 4 Mathematics
State Score Change Summary
Average Scale Scores: 2019-2022

Between 2019 and 2022

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- Alabama
- DoDEA
- Georgia
- Hawaii
- Illinois
- Iowa
- Louisiana
- Nebraska
- South Carolina
- Wisconsin
- Alaska
- Arkansas
- Arizona
- California
- Colorado
- Connecticut
- DC
- Delaware
- Florida
- Idaho
- Indiana
- Kansas
- Kentucky
- Maine
- Maryland
- Massachusetts
- Michigan
- Minnesota
- Mississippi
- Missouri
- Montana
- North Carolina
- North Dakota
- New Hampshire
- New Jersey
- New Mexico
- Nevada
- New York
- Ohio
- Oklahoma
- Oregon
- Pennsylvania
- Puerto Rico
- Rhode Island
- South Dakota
- Tennessee
- Texas
- Utah
- Vermont
- Virginia
- Washington
- West Virginia
- Wyoming

DS = Department of Defense Education Activity (DoDEA), a federally-operated nonpublic school system responsible for educating children of military families.
NAEP Grade 4 Mathematics
State Performance Compared to the Nation
Average Scale Scores: 2022

17 states/jurisdictions performed significantly higher than National Public
- DoDEA
- Florida
- Indiana
- Iowa
- Massachusetts
- Minnesota
- Montana
- Nebraska
- New Hampshire
- New Jersey
- North Dakota
- Ohio
- South Dakota
- Texas
- Utah
- Wisconsin
- Wyoming

21 states/jurisdictions not significantly different than National Public
- Arizona
- Colorado
- Connecticut
- Georgia
- Hawaii
- Idaho
- Illinois
- Kansas
- Kentucky
- Maine
- Michigan
- Mississippi
- Missouri
- North Carolina
- Pennsylvania
- Rhode Island
- South Carolina
- Tennessee
- Vermont
- Virginia
- Washington

15 states/jurisdictions performed significantly lower than National Public
- Alabama
- Alaska
- Arkansas
- California
- Delaware
- DC
- Louisiana
- Maryland
- Nevada
- New Mexico
- New York
- Oklahoma
- Oregon
- Puerto Rico
- West Virginia

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