



Florida and National Public Results 2009 and 2011 NAEP Science Grade 8

This report provides results for Florida’s grade 8 public school students from the National Assessment of Educational Progress (NAEP) assessment in science in 2009 and 2011. Results are reported by average scale scores, which serve as the basis for achievement levels (*Basic*, *Proficient*, and *Advanced*). The table below provides the scale score ranges for the achievement levels referenced in this report.

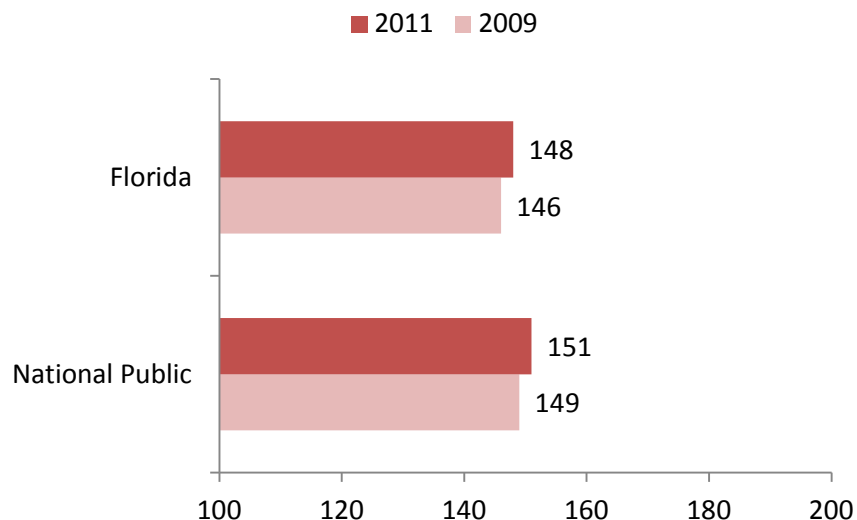
Science Achievement Levels	at <i>Basic</i>	at <i>Proficient</i>	at <i>Advanced</i>
Grade 8 (0-300)	141–169	170–214	215–300

This report also uses symbols to indicate significant increase, decrease, or no significant change in percentages or scores between years and between jurisdictions. Use the arrows in the box below for reference in these tables.

<p>↑ Significantly higher, larger, increased or wider</p> <p>↔ No significant difference</p> <p>↓ Significantly lower, smaller, decreased or narrower</p> <p>‡ A significance test could not be performed because reporting standards were not met</p>
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Additional information about this administration is provided on the Florida Department of Education’s website at: <http://www.fldoe.org/asp/naep/naep2011science.asp>.

2009 and 2011 NAEP Science, Grade 8 Florida vs. National Public Average Scale Score



Average scale scores – Florida (FL) compared to the nation (NP) by year

2009	2011
↓	↓

Changes in average scale scores between 2009 and 2011

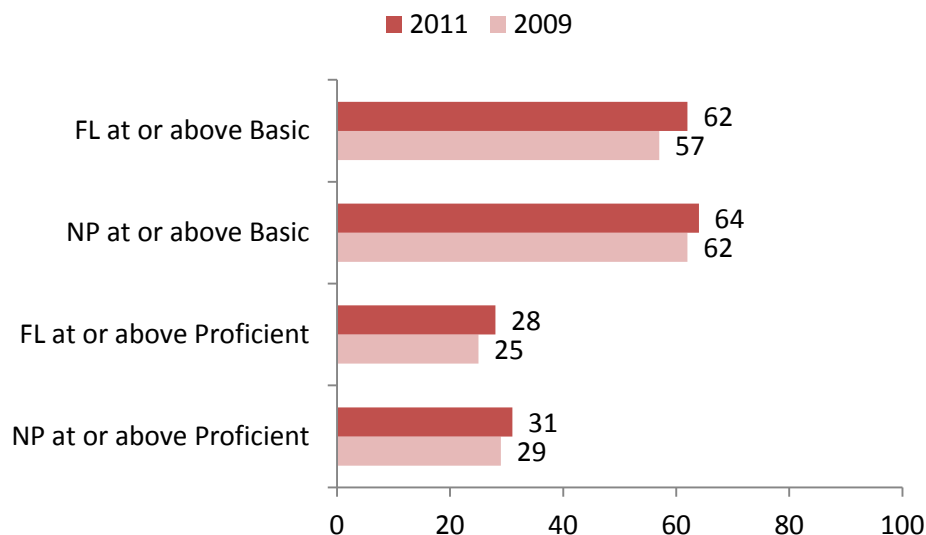
	Change in scores
Florida	↔ 2
National Public	↑ 2
FL change vs. NP change	↔

Note: Comparisons based on statistical tests (.05 level) using unrounded numbers that considered the magnitude of difference and standard errors.

Source: U.S. Department of Education, Institute of Education Sciences, National Center of Education Statistics, National Assessment of Educational Progress (NAEP), 2011 Science Assessment.

[NAEP Data Explorer](#) Search Criteria: Science, Grade 8. Jurisdictions: National Public, Florida. Years: 2009 and 2011. Variables: All Students. Edit Reports: Statistics Options, Average Scale Scores.

2009 and 2011 NAEP Science, Grade 8 Florida vs. National Public At or Above *Basic* and At or above *Proficient* Achievement Levels



Achievement Levels - Florida (FL) compared to the nation (NP) by year

	2009	2011
At or above <i>Basic</i>	↓	↔
At or above <i>Proficient</i>	↓	↔

Changes in percent performing at or above *Basic* and at or above *Proficient* between 2009 and 2011

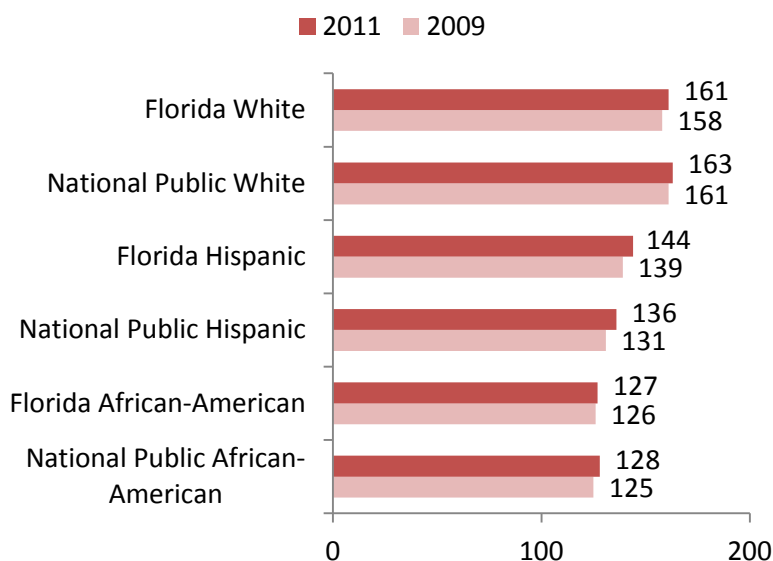
	at or above <i>Basic</i>	at or above <i>Proficient</i>
Florida	↑ 5%	↔ 3%
National Public	↑ 2%	↑ 2%
FL change vs. NP change	↔	↔

Note: Comparisons based on statistical tests (.05 level) using unrounded numbers that considered the magnitude of difference and standard errors.

Source: U.S. Department of Education, Institute of Education Sciences, National Center of Education Statistics, National Assessment of Educational Progress (NAEP), 2011 Science Assessment.

[NAEP Data Explorer](#) Search Criteria: Science, Grade 8. Jurisdictions: National Public, Florida. Years: 2009 and 2011. Variables: All Students. Edit Reports: Statistics Options, Achievement Levels, Cumulative.

2009 and 2011 NAEP Science, Grade 8 Florida vs. National Public Average Scale Scores Race/Ethnicity



Average scale scores – Florida (FL) compared to the nation (NP) by year

	2009	2011
FL vs. NP White	↓	↔
FL vs. NP Hispanic	↑	↑
FL vs. NP African-American	↔	↔

Changes in average scale scores between 2009 and 2011

	White	Hispanic	African-American
Florida	↔ 2	↔ 5	↔ 1
National Public	↑ 2	↑ 5	↑ 3
FL Change Compared to NP Change	↔	↔	↔

Gaps – Florida’s compared to the nation’s by year

	2009	2011
FL vs. NP White/Hispanic	↓	↓
FL vs. NP White/African-American	↓	↔

Gaps – Changes between 2009 and 2011

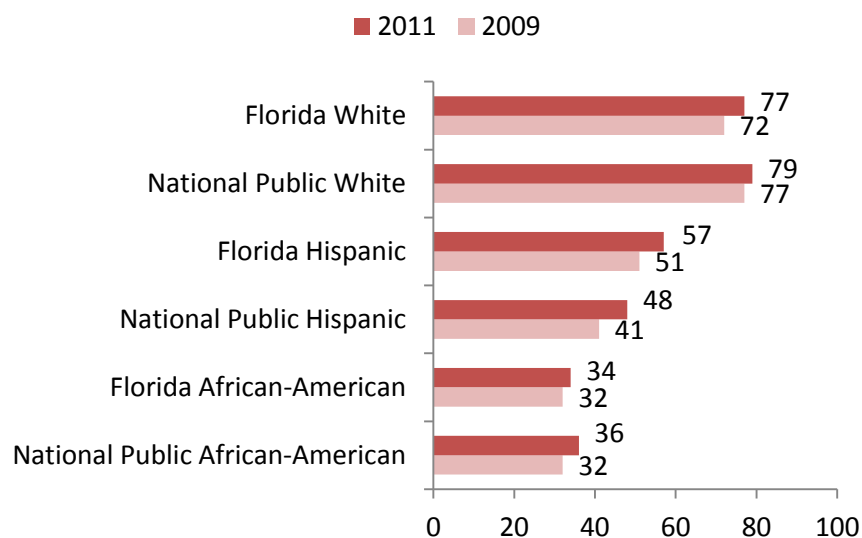
	White/Hispanic	White/African-American
Florida	↔ 2	↔ 2
National Public	↓ 3	↔ 1
FL Gap Change vs. NP Gap Change	↔	↔

Note: Comparisons based on statistical tests (.05 level) using unrounded numbers that considered the magnitude of difference and standard errors.

Source: U.S. Department of Education, Institute of Education Sciences, National Center of Education Statistics, National Assessment of Educational Progress (NAEP), 2011 Science Assessment.

[NAEP Data Explorer](#) Search Criteria: Science, Grade 8. Jurisdictions: National Public, Florida. Years 2009 and 2011. Variables: Race/Ethnicity used to report trends, school-reported. Edit Reports: Statistics Options, Average Scale Scores.

2009 and 2011 NAEP Science, Grade 8 Florida vs. National Public At or Above *Basic* Achievement Level Race/Ethnicity



Percent at or above *Basic* – Florida (FL) compared to the nation (NP) by year

	2009	2011
FL vs. NP White	↓	↔
FL vs. NP Hispanic	↑	↑
FL vs. NP African-American	↔	↔

Changes in percent performing at or above *Basic* between 2009 and 2011

	White	Hispanic	African-American
Florida	↔ 5%	↔ 6%	↔ 2%
National Public	↑ 2%	↑ 7%	↑ 4%
FL Change Compared to NP Change	↔	↔	↔

Gaps – Florida’s compared to the nation’s by year

	2009	2011
FL vs. NP White/Hispanic	↓	↓
FL vs. NP White/African-American	↔	↔

Gaps – Changes between 2009 and 2011

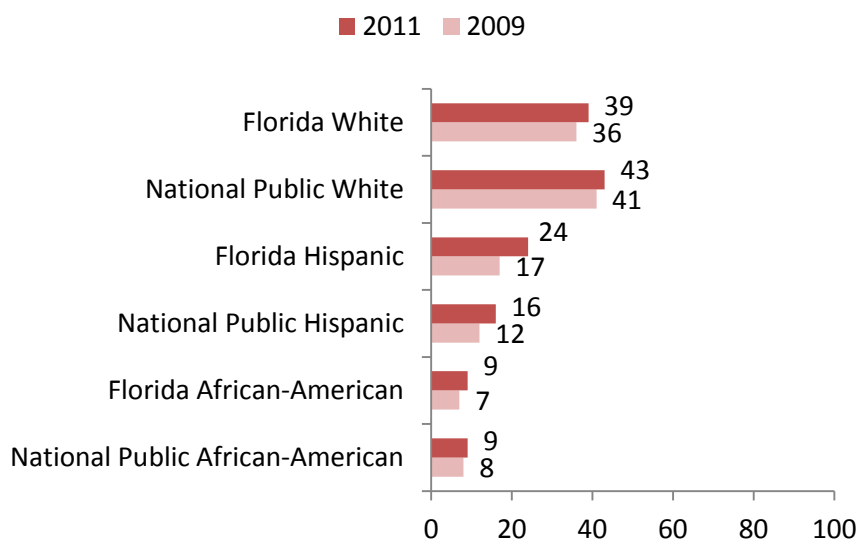
	White/Hispanic	White/African-American
Florida	↔ 1%	↔ 3%
National Public	↓ 5%	↔ 2%
FL Gap Change vs. NP Gap Change	↔	↔

Note: Comparisons based on statistical tests (.05 level) using unrounded numbers that considered the magnitude of difference and standard errors.

Source: U.S. Department of Education, Institute of Education Sciences, National Center of Education Statistics, National Assessment of Educational Progress (NAEP), 2011 Science Assessment.

[NAEP Data Explorer](#) Search Criteria: Science, Grade 8. Jurisdictions: National Public, Florida. Years: 2009 and 2011. Variables: Race/Ethnicity used to report trends, school-reported. Edit Reports: Statistics Options, Achievement Levels, Cumulative.

2009 and 2011 NAEP Science, Grade 8 Florida vs. National Public At or Above *Proficient* Achievement Level Race/Ethnicity



Percent at or above *Proficient* – Florida (FL) compared to the nation (NP) by year

	2009	2011
FL vs. NP White	↓	↔
FL vs. NP Hispanic	↑	↑
FL vs. NP African-American	↔	↔

Changes in percent performing at or above *Proficient* between 2009 and 2011

	White	Hispanic	African-American
Florida	↔ 3%	↔ 7%	↔ 2%
National Public	↑ 2%	↑ 4%	↑ 1%
FL Change Compared to NP Change	↔	↔	↔

Gaps – Florida’s compared to the nation’s by year

	2009	2011
FL vs. NP White/Hispanic	↓	↓
FL vs. NP White/African-American	↔	↔

Gaps – Changes between 2009 and 2011

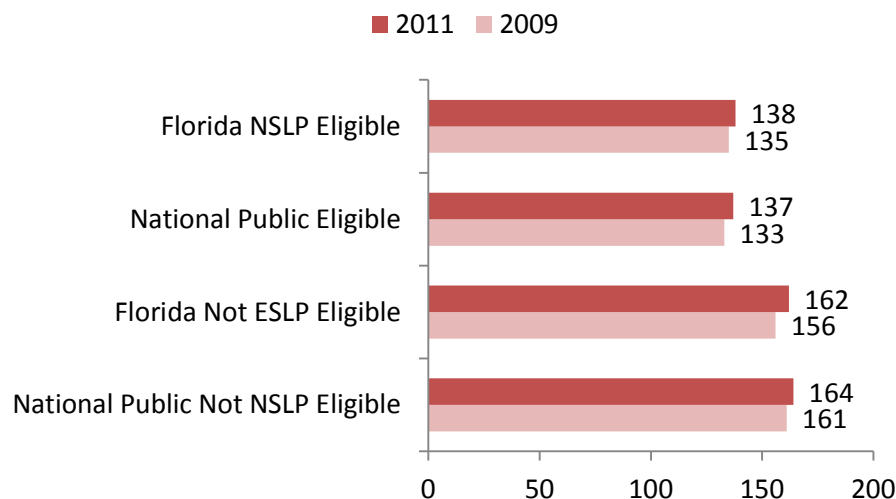
	White/Hispanic	White/African-American
Florida	↔ 4%	↔ 1%
National Public	↓ 2%	↔ 1%
FL Gap Change vs. to NP Gap Change	↔	↔

Note: Comparisons based on statistical tests (.05 level) using unrounded numbers that considered the magnitude of difference and standard errors.

Source: U.S. Department of Education, Institute of Education Sciences, National Center of Education Statistics, National Assessment of Educational Progress (NAEP), 2011 Science Assessment.

[NAEP Data Explorer](#) Search Criteria: Science, Grade 8. Jurisdictions: National Public, Florida. Years: 2009 and 2011. Variables: Race/Ethnicity used to report trends, school-reported. Edit Reports: Statistics Options, Achievement Levels, Cumulative.

2009 and 2011 NAEP Science, Grade 8 Florida vs. National Public Average Scale Scores Eligibility for National School Lunch Program (NSLP)



Average scale scores – Florida (FL) compared to the nation (NP) by year

	2009	2011
FL vs. NP Eligible	↔	↔
FL vs. NP Not Eligible	↓	↔

Changes in average scale scores between 2009 and 2011

	Eligible	Not Eligible
Florida	↔ 3	↑ 6
National Public	↑ 4	↑ 3
FL Change Compared to NP Change	↔	↔

Gaps – Florida’s compared to the nation’s by year

	2009	2011
FL vs. NP Eligible/Not Eligible	↓	↔

Gaps – Changes between 2009 and 2011

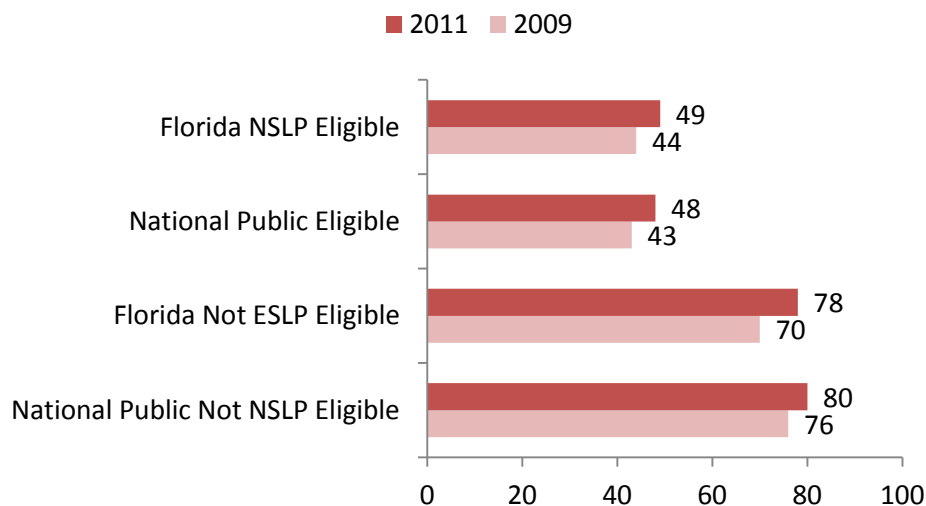
	Eligible/Not Eligible
Florida	↔ 3
National Public	↔ 1
FL Gap Change vs. NP Gap Change	↔

Note: Comparisons based on statistical tests (.05 level) using unrounded numbers that considered the magnitude of difference and standard errors.

Source: U.S. Department of Education, Institute of Education Sciences, National Center of Education Statistics, National Assessment of Educational Progress (NAEP), 2011 Science Assessment.

[NAEP Data Explorer](#) Search Criteria: Science, Grade 8. Jurisdictions: National Public, Florida. Years: 2009 and 2011. Variables: National School Lunch Program eligibility. Edit Reports: Statistics Options, Average Scale Scores.

2009 and 2011 NAEP Science, Grade 8 Florida vs. National Public At or Above *Basic* Achievement Level Eligibility for National School Lunch Program (NSLP)



At or above *Basic* – Florida (FL) compared to the nation (NP) by year

	2009	2011
FL vs. NP Eligible	↔	↔
FL vs. NP Not Eligible	↓	↔

Changes in percent performing at or above *Basic* between 2009 and 2011

	Eligible	Not Eligible
Florida	↔ 5%	↑ 8%
National Public	↑ 5%	↑ 4%
FL Change Compared to NP Change	↔	↔

Gaps – Florida’s compared to the nation’s by year

	2009	2011
FL vs. NP Eligible/Not Eligible	↓	↔

Gaps – Changes between 2009 and 2011

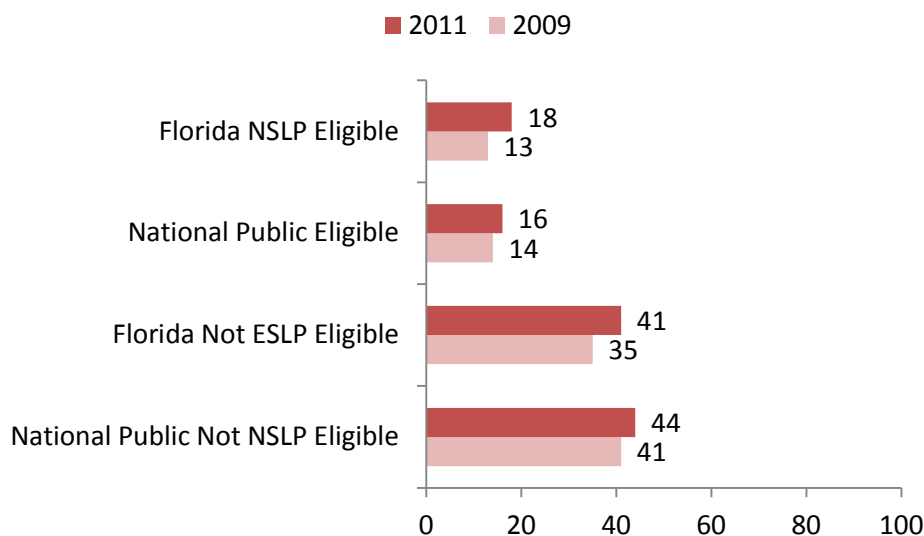
	Eligible/Not Eligible
Florida	↔ 3%
National Public	↔ 1%
FL Gap Change vs. NP Gap Change	↔

Note: Comparisons based on statistical tests (.05 level) using unrounded numbers that considered the magnitude of difference and standard errors.

Source: U.S. Department of Education, Institute of Education Sciences, National Center of Education Statistics, National Assessment of Educational Progress (NAEP), 2011 Science Assessment.

[NAEP Data Explorer](#) Search Criteria: Science, Grade 8. Jurisdictions: National Public, Florida. Years: 2009 and 2011. Variables: National School Lunch Program eligibility. Edit Reports: Statistics Options, Achievement Levels, Cumulative.

2009 and 2011 NAEP Science, Grade 8 Florida vs. National Public At or Above *Proficient* Achievement Level Eligibility for National School Lunch Program (NSLP)



At or above *Proficient* – Florida (FL) compared to the nation (NP) by year

	2009	2011
FL vs. NP Eligible	↔	↔
FL vs. NP Not Eligible	↓	↔

Changes in percent performing at or above *Proficient* between 2009 and 2011

	Eligible	Not Eligible
Florida	↑ 5%	↑ 6%
National Public	↑ 2%	↑ 3%
FL Change Compared to NP Change	↔	↔

Gaps – Florida's compared to the nation's by year

	2009	2011
FL vs. NP Eligible/ Not Eligible	↓	↔

Gaps – Changes between 2009 and 2011

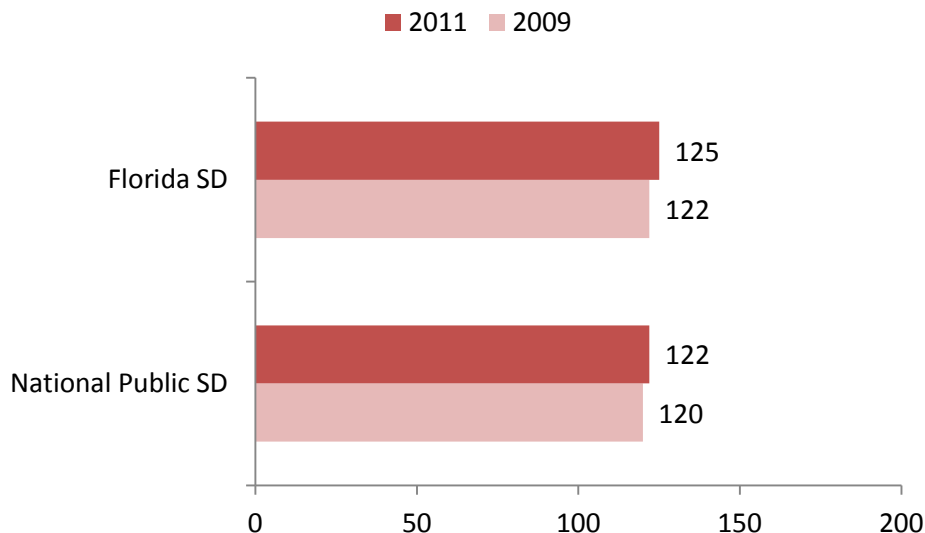
	Eligible/Not Eligible
Florida	↔ 1%
National Public	↔ 1%
FL Gap Change vs. NP Gap Change	↔

Note: Comparisons based on statistical tests (.05 level) using unrounded numbers that considered the magnitude of difference and standard errors.

Source: U.S. Department of Education, Institute of Education Sciences, National Center of Education Statistics, National Assessment of Educational Progress (NAEP), 2011 Science Assessment.

[NAEP Data Explorer](#) Search Criteria: Science, Grade 8. Jurisdictions: National Public, Florida. Years: 2009 and 2011. Variables: National School Lunch Program eligibility. Edit Reports: Statistics Options, Achievement Levels, Cumulative.

2009 and 2011 NAEP Science, Grade 8 Florida vs. National Public Average Scale Scores Students with Disabilities (SD)



Average scale scores – Florida (FL) compared to the nation (NP) by year

2009	2011
↔	↔

Changes in average scale scores between 2009 and 2011

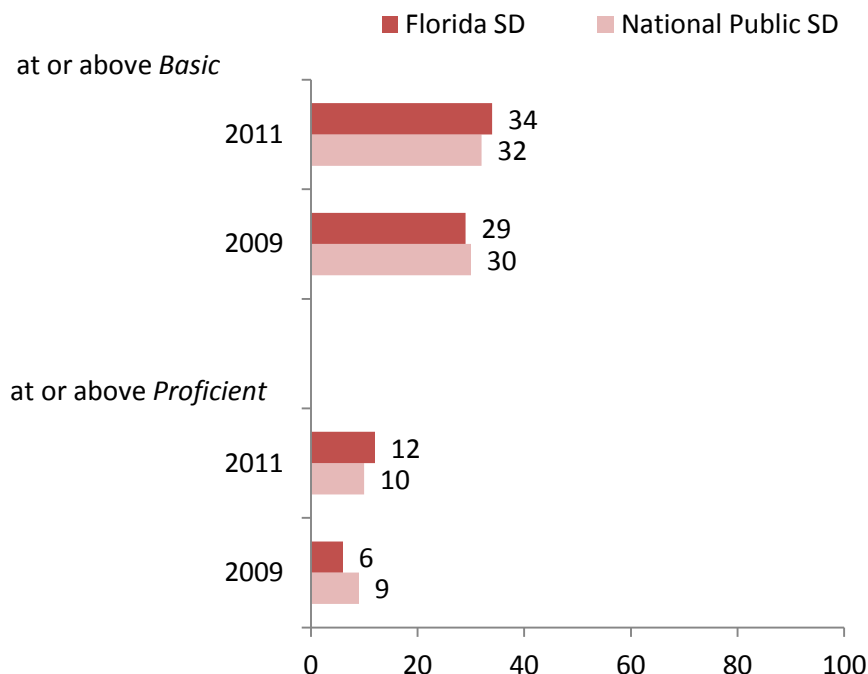
	Change in scores
Florida	↔ 3
National Public	↑ 2
FL Change vs. NP Change	↔

Note: Comparisons based on statistical tests (.05 level) using unrounded numbers that considered the magnitude of difference and standard errors.

Source: U.S. Department of Education, Institute of Education Sciences, National Center of Education Statistics, National Assessment of Educational Progress (NAEP), 2011 Science Assessment.

[NAEP Data Explorer](#) Search Criteria: Science, Grade 8. Jurisdictions: National Public, Florida. Years: 2009 and 2011. Variables: Disability status of student, excluding those with 504 plan. Edit Reports: Statistics Options, Average Scale Scores.

2009 and 2011 NAEP Science, Grade 8 Florida vs. National Public At or Above *Basic* and At or above *Proficient* Achievement Levels Students with Disabilities (SD)



Achievement Levels –Florida (FL) compared to the nation (NP) by year

	2009	2011
At or above <i>Basic</i>	↔	↔
At or above <i>Proficient</i>	↔	↔

Changes in percent performing at or above *Basic* and at or above *Proficient* between 2009 and 2011

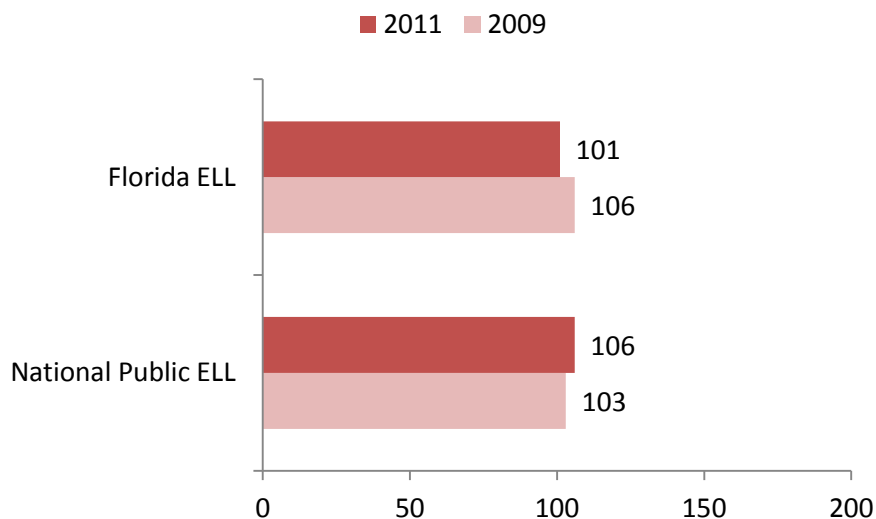
	at or above <i>Basic</i>	at or above <i>Proficient</i>
Florida	↔ 5%	↔ 6%
National Public	↔ 2%	↔ 1%
FL Change vs. NP Change	↔	↔

Note: Comparisons based on statistical tests (.05 level) using unrounded numbers that considered the magnitude of difference and standard errors.

Source: U.S. Department of Education, Institute of Education Sciences, National Center of Education Statistics, National Assessment of Educational Progress (NAEP), 2011 Science Assessment.

[NAEP Data Explorer](#) Search Criteria: Science, Grade 8. Jurisdictions: National Public, Florida. Years: 2009 and 2011. Variables: Disability status of student, excluding those with 504 plan. Edit Reports: Statistics Options, Achievement Levels, Cumulative.

2009 and 2011 NAEP Science, Grade 8 Florida vs. National Public Average Scale Scores English Language Learners (ELL)



Average scale scores – Florida (FL) compared to the nation (NP) by year

2009	2011
↔	↔

Changes in average scale scores between 2009 and 2011

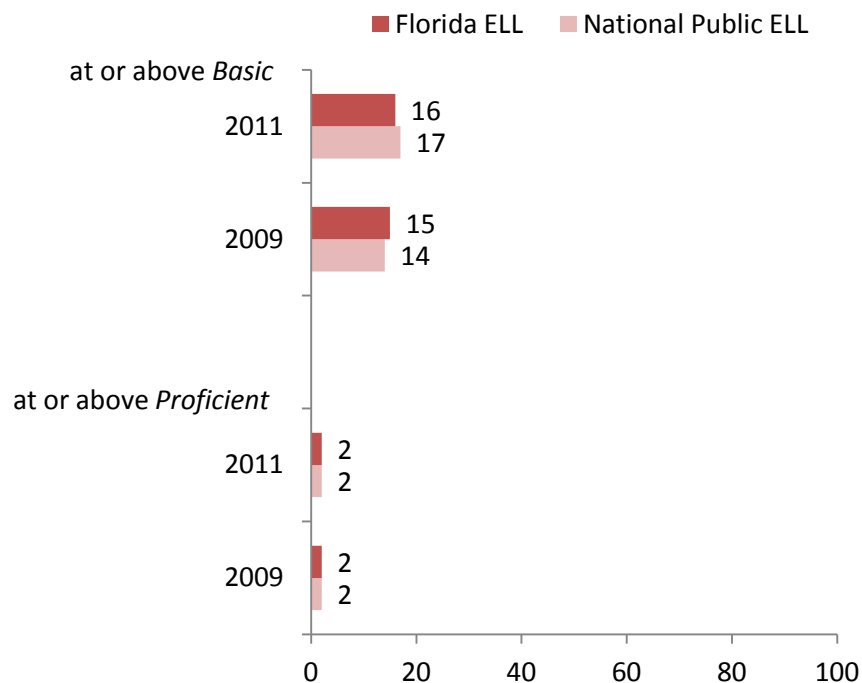
	Change in scores
Florida	↔ 5
National Public	↔ 3
FL Change vs. NP Change	↔

Note: Comparisons based on statistical tests (.05 level) using unrounded numbers that considered the magnitude of difference and standard errors.

Source: U.S. Department of Education, Institute of Education Sciences, National Center of Education Statistics, National Assessment of Educational Progress (NAEP), 2011 Science Assessment.

[NAEP Data Explorer](#) Search Criteria: Science, Grade 8. Jurisdictions: National Public, Florida. Years: 2009 and 2011. Variables: Status as English Language Learner. Edit Reports: Statistics Options, Average Scale Scores.

2009 and 2011 NAEP Science, Grade 8 Florida vs. National Public At or Above *Basic* and At or above *Proficient* Achievement Levels English Language Learners (ELL)



Achievement Levels – Florida (FL) compared to the nation (NP) by year

	2009	2011
At or above <i>Basic</i>	↔	↔
At or above <i>Proficient</i>	‡	‡

Changes in percent performing at or above *Basic* and at or above *Proficient* between 2009 and 2011

	at or above <i>Basic</i>	at or above <i>Proficient</i>
Florida	↔ 1%	‡
National Public	↔ 3%	↔ 0%
FL Change vs. NP Change	↔	‡

Note: Comparisons based on statistical tests (.05 level) using unrounded numbers that considered the magnitude of difference and standard errors.

Source: U.S. Department of Education, Institute of Education Sciences, National Center of Education Statistics, National Assessment of Educational Progress (NAEP), 2011 Science Assessment.

[NAEP Data Explorer](#) Search Criteria: Science, Grade 8. Jurisdictions: National Public, Florida. Years: 2009 and 2011. Variables: Status as English Language Learner. Edit Reports: Statistics Options, Achievement Levels, Cumulative.