

TESTING BRIEF
National Assessment of Educational Progress (NAEP) - Mathematics
January 24 – March 4, 2011

The Nation's Report Card, the National Assessment of Educational Progress (NAEP), is a nationally representative and continuing assessment of what America's students know and can do in various subject areas. Since 1969, assessments have been conducted periodically in reading, mathematics, science, writing, history, geography, and other fields. By making objective information on student performance available to policymakers at the national, state, and local levels, NAEP is an integral part of our nation's evaluation of the condition and progress of education. Only information related to academic achievement is collected under this program. NAEP guarantees the privacy of individual students and their families. This report provides selected NAEP results for Georgia's public school students in mathematics at grades 4 and 8. Student performance is reported as an average score based on the NAEP mathematics scale, which ranges from 0 to 500. Beginning in 1990, mathematics has been assessed in nine different years at the state level (at grade 8 in 1990, and at both grades 4 and 8 in 1992, 1996, 2000, 2003, 2005, 2007, 2009 and 2011). This report presents results from 2000 to 2011.

KEY FINDINGS IN MATHEMATICS

Grade 4

- The average mathematics score for students in Georgia was 238. This was significantly different than the score in 2009 (236).
- Georgia's average score in 2011 (238) was lower than that of the nation's public schools (240).
- The average mathematics score for White students in Georgia changed from 247 in 2009 to 249 in 2011. The average score for Black students changed from 221 in 2009 to 224 in 2011. The average score for Hispanic students changed from 231 in 2009 to 233 in 2011.
- The average mathematics score for students who were eligible for the National School Lunch (NSL) Program was 225 in 2009 and 227 in 2011.
- The percentage of students in Georgia who performed at or above *Basic* was 80 percent. This was not significantly different from 2009 (78 percent).
- The percentage of students in Georgia who performed at or above *Proficient* was 37 percent. Although this represents a three-percentage point increase over 2009 (34 percent), this gain was not significant.

KEY FINDINGS IN MATHEMATICS

Grade 8

- The average mathematics score for students in Georgia was 278, demonstrating no change from 2009.
- Georgia's average score (278) was lower than that of the nation's public schools (283).
- The average mathematics score for White students in Georgia changed from 289 in 2009 to 291 in 2011. Black students' average score remained the same at 262 in 2009 and 2011. Scores for Hispanic students changed from 270 in 2009 to 277 in 2011.
- The average mathematics score for students who were eligible for the National School Lunch (NSL) Program in Georgia changed from 265 in 2009 to 267 in 2011.
- The percentage of students in Georgia who performed at or above *Basic* increased, although not significantly, from 67 percent in 2009 to 68 percent in 2011.
- The percentage of students in Georgia who performed at or above *Proficient* was 28 percent. This gain was not significantly different from 2009 (27 percent).

Table 1: Average Scale Scores – NAEP Grade 4 Mathematics 2000-2011

Table 1: Average Scale Scores							
	2000	2003	2005	2007	2009	2011	Change 2000-2011
All Students	219*	230*	234*	235*	236*	238	19
White	230*	241*	243*	246	247	249	19
Black	204*	217*	221	222	221	224	20
Hispanic	217*	219*	229	229	231	233	16
Asian	NA	248*	255	255	256	263	15**
Male	220*	231*	234*	236	237	238	18
Female	218*	229*	233*	234*	236*	239	21
FRL (NSL)	204*	219*	224*	224*	225	227	23
Students with Disabilities	196*	209	218	219	215	214	18
English Language Learner	NA	208	208*	212	220	219	11**

*Value is significantly different from the 2011 value.

NA – Reporting standards for sample size not met.

**Due to N/A, change reported for years other than 2000-2011.

Figure 1: Average Scale Scores – NAEP Grade 4 Mathematics 2000-2011

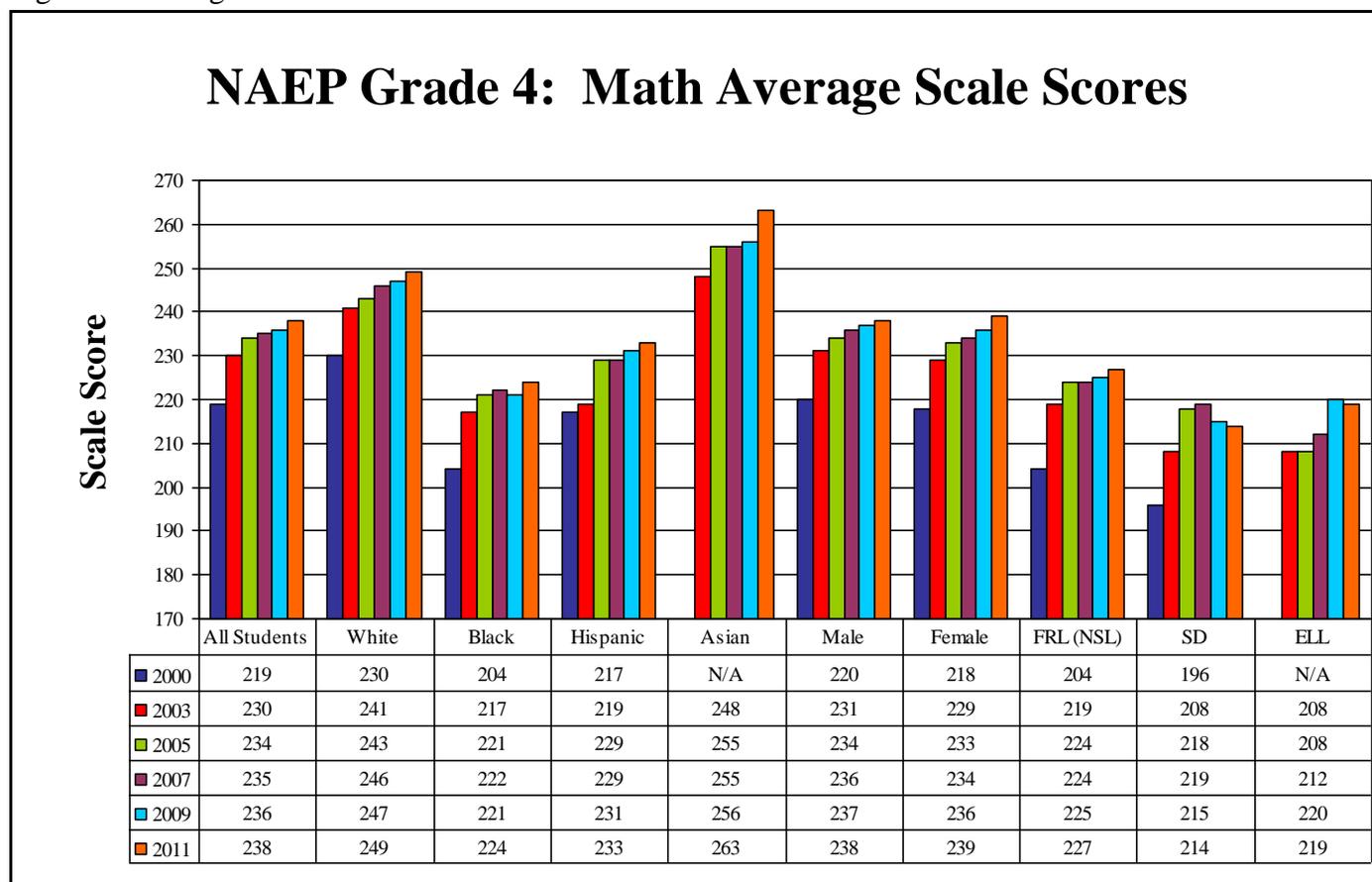


Table 2: Achievement Level – At or Above Basic on NAEP Grade 4 Mathematics 2000-2011

Table 2: Achievement Level – At or Above Basic							
	2000	2003	2005	2007	2009	2011	Change 2000-2011
All Students	57%*	72%*	76%*	79%	78%	80%	23
White	73%*	84%*	87%	90%	90%	91%	18
Black	36%*	56%*	61%	64%	62%	65%	29
Hispanic	58%*	60%*	73%	75%	75%	76%	18
Asian	NA	87%	95%	90%	93%	93%	6**
Male	59%*	72%*	76%	79%	77%	78%	19
Female	55%*	71%*	76%*	78%	79%	81%	26
FRL (NSL)	36%*	59%*	65%*	68%	68%	70%	34
Students with Disabilities	32%*	43%	54%	58%	53%	49%	17
English Language Learner	NA	41%	42%	51%	59%	56%	15**

*Value is significantly different from the 2011 value.

NA – Reporting standards for sample size not met.

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Figure 2: Percent At or Above Basic – NAEP Grade 4 Mathematics 2000-2011

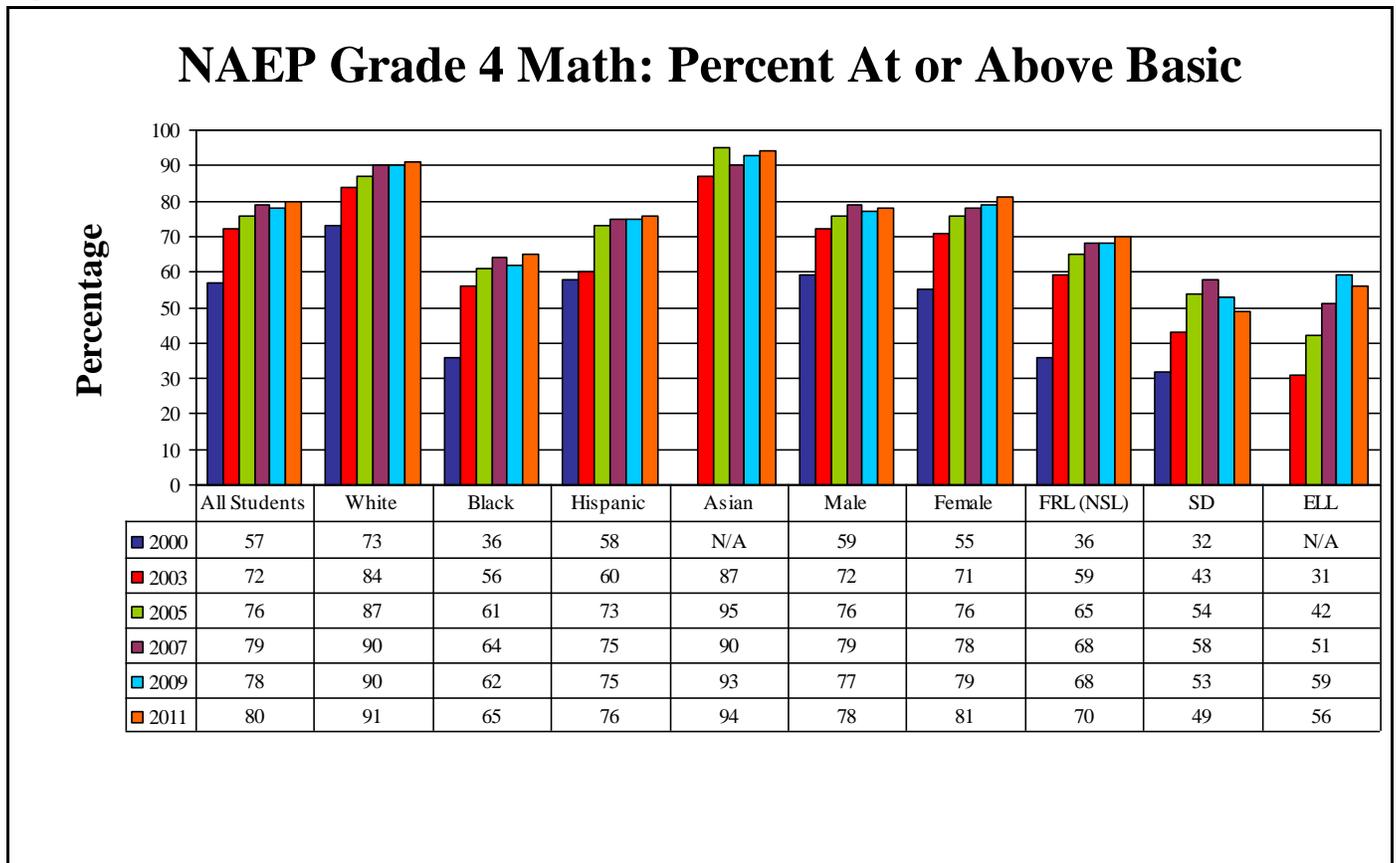


Table 3: Achievement Level – At or Above Proficient in NAEP Grade 4 Mathematics 2000-2011

Table 3: Achievement Level – At or Above Proficient							
	2000	2003	2005	2007	2009	2011	Change 2000-2011
All Students	17%*	27%*	30%*	32%*	34%	37%	20
White	27%*	40%*	43%*	46%	48%	51%	24
Black	5%*	11%*	12%*	13%	15%	18%	13
Hispanic	12%*	13%*	22%	20%	26%	29%	17
Asian	NA	53%	57%	63%	60%	70%	17**
Male	19%*	29%*	30%*	33%	35%	37%	18
Female	16%*	25%*	29%*	30%*	32%	37%	21
FRL (NSL)	5%*	12%*	16%*	16%*	19%	21%	16
Students with Disabilities	4%*	11%	15%	18%	13%	14%	10
English Language Learner	NA	8%	4%	5%	14%	13%	5**

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Figure 3: Percent At or Above Proficient – NAEP Grade 4 Mathematics 2000-2011

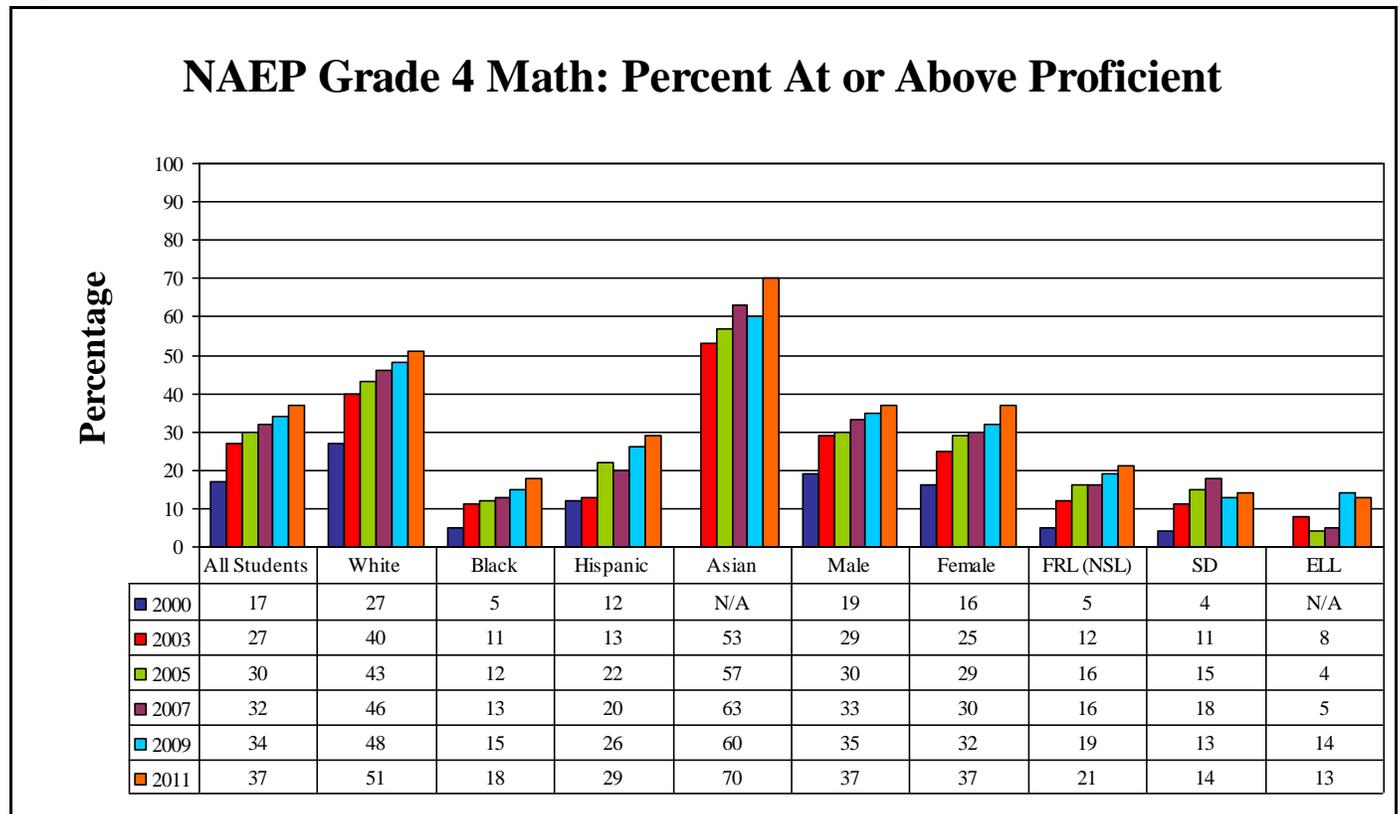


Table 4: Average Scale Scores – NAEP Grade 8 Mathematics 2000-2011

Table 4: Average Scale Scores							
	2000	2003	2005	2007	2009	2011	Change 2000-2011
All Students	265*	270*	272*	275*	278	278	13
White	279*	284*	284*	288	289	291	12
Black	244*	250*	255*	261	262	262	18
Hispanic	NA	262*	258*	266	270	277	15**
Asian	NA	286	301	NA	300	303	17**
Male	265*	270*	273*	275	277	279	14
Female	265*	269*	272*	274*	278	278	13
FRL (NSL)	246*	253*	257*	262*	265	267	21
Students with Disabilities	232	234*	241	246	245	244	12
English Language Learner	NA	239	242	237	NA	245	6**

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Figure 4: Average Scale Scores – NAEP Grade 8 Mathematics 2000-2011

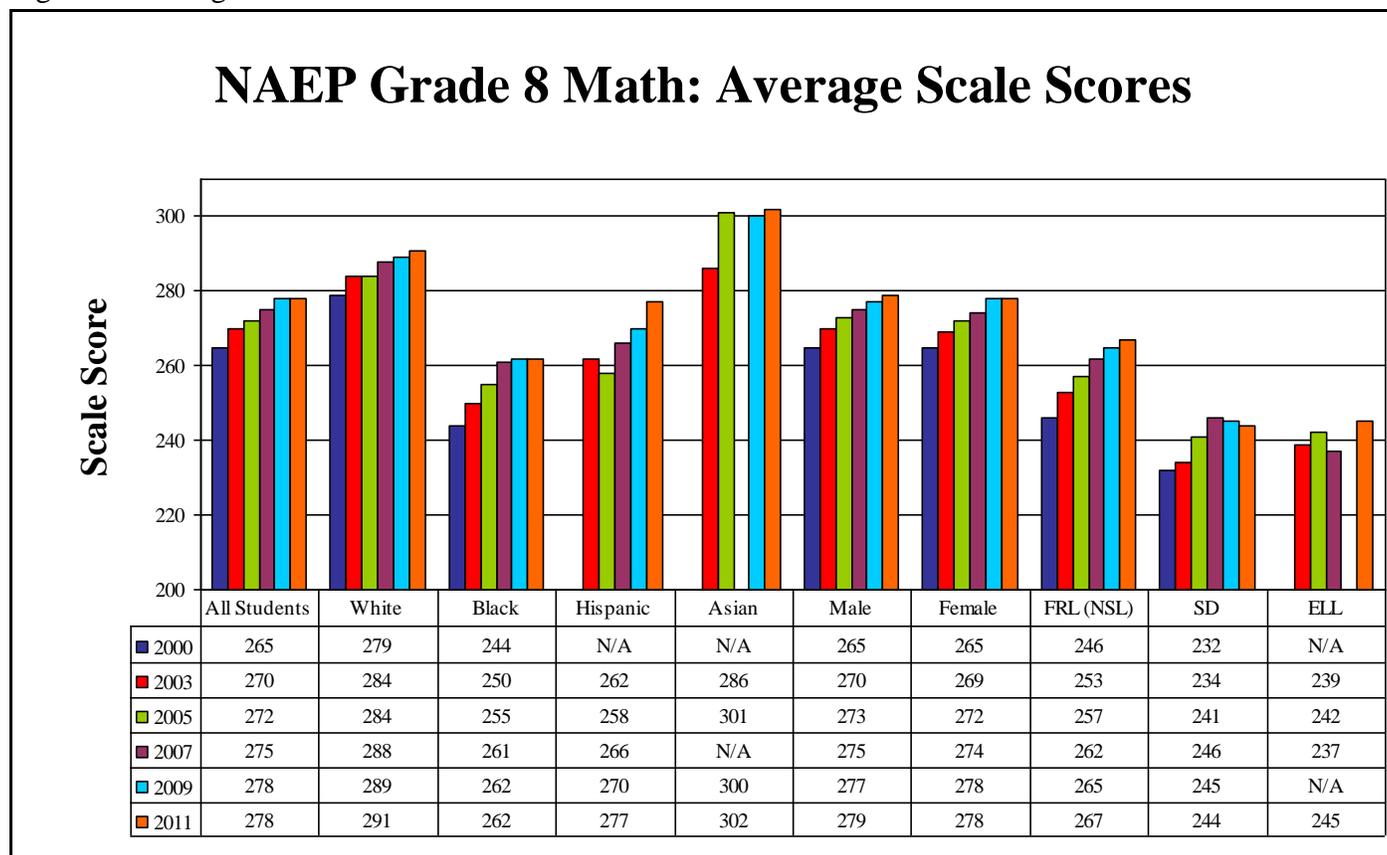


Table 5: Achievement Level – At or Above Basic on NAEP Grade 8 Mathematics 2000-2011

Table 5: Achievement Level – At or Above Basic							
	2000	2003	2005	2007	2009	2011	Change 2000-2011
All Students	54%*	59%*	62%*	64%*	67%	68%	14
White	71%*	77%*	76%*	80%	80%	82%	11
Black	28%*	36%*	43%*	48%	50%	51%	23
Hispanic	NA	49%*	48%*	55%	59%	69%	20**
Asian	NA	73%	84%	NA	86%	88%	15**
Male	55%*	60%*	62%*	64%	65%	67%	12
Female	54%*	59%*	62%*	64%*	68%	70%	16
FRL (NSL)	30%*	39%*	44%*	49%*	53%	58%	28
Students with Disabilities	26%	24%	29%	34%	28%	30%	4
English Language Learner	NA	25%	27%	20%	NA	28%	3**

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Figure 5: Percent At or Above Basic – NAEP Grade 8 Mathematics 2000-2011

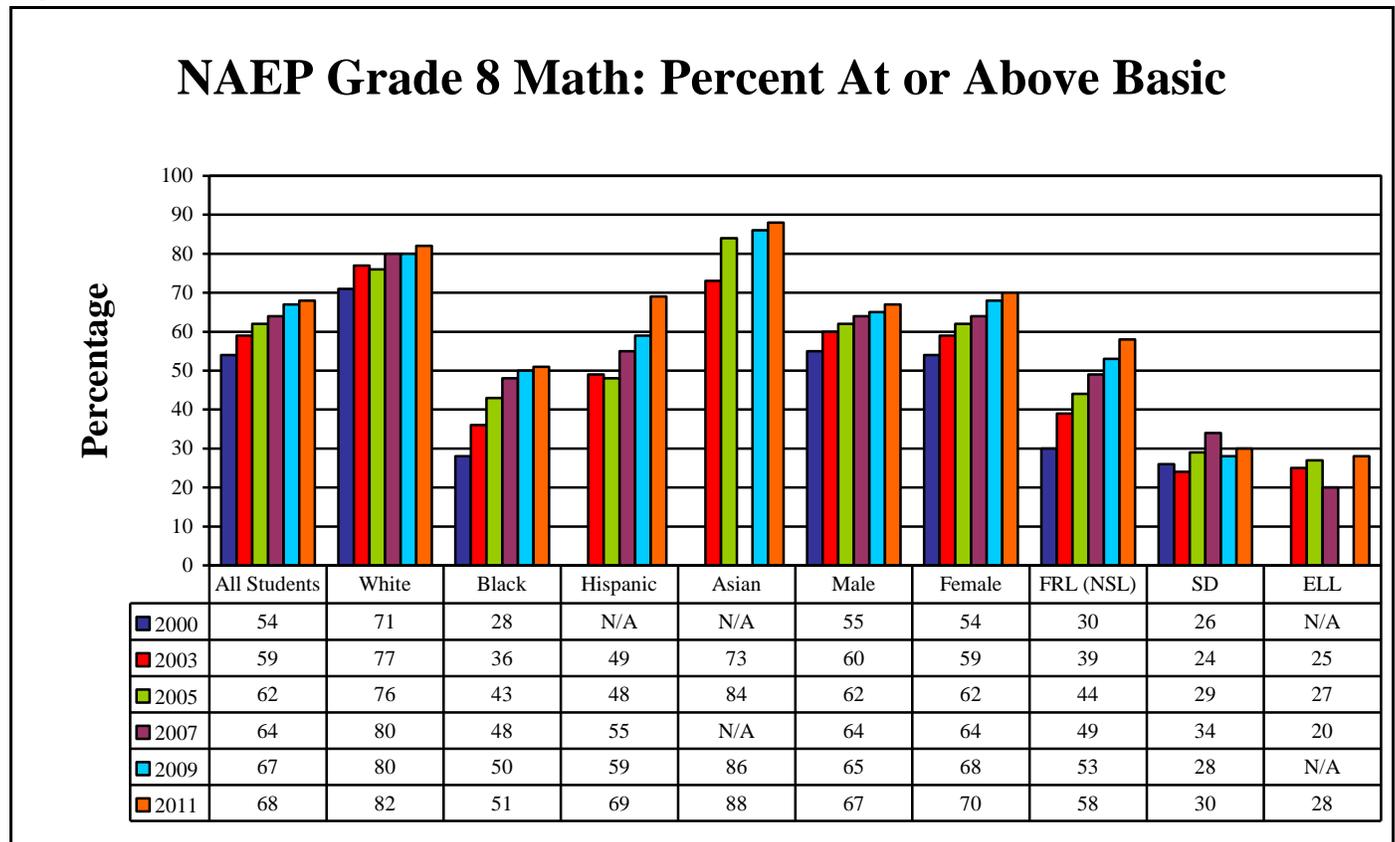


Table 6: Achievement Level – At or Above Proficient on NAEP Grade 8 Mathematics 2000-2011

Table 6: Achievement Level – At or Above Proficient							
	2000	2003	2005	2007	2009	2011	Change 2000-2011
All Students	19%*	22%*	23%*	25%	27%	28%	9
White	27%*	32%*	34%*	37%	39%	40%	13
Black	4%*	7%*	8%*	11%	11%	12%	8
Hispanic	NA	14%*	12%*	16%	18%	25%	11**
Asian	NA	40%	52%	NA	49%	52%	12**
Male	19%*	24%*	24%	26%	27%	29%	10
Female	18%*	20%*	23%	23%	27%	27%	9
FRL (NSL)	5%*	8%*	9%*	12%*	13%	16%	11
Students with Disabilities	5%	6%	6%	6%	6%	4%	-1
English Language Learner	NA	4%	10%	1%	NA	6%	2**

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Figure 6: Percent At or Above Proficient – NAEP Grade 8 Mathematics 2000-2011

