

TESTING BRIEF

National Assessment of Educational Progress (NAEP) - Mathematics

January 26 – March 6, 2015

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 eleven 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, 2011, 2013 and 2015). This report presents results from 2000 to 2015.

KEY FINDINGS IN MATHEMATICS

Grade 4

- The average mathematics scale score for students in Georgia was 236. This was significantly different from the score in 2013 (240), but not from the score in 2011 (238).
- Georgia's average scale score in 2015 (236) was significantly different than that of the nation's public schools (240).
- The average mathematics scale score for White students in Georgia decreased five (5) points from 2013 (250) to 2015 (245). The average scale score for Black students decreased two (2) points from 2013 (226) to 2015 (224). The average scale score for Hispanic students decreased one (1) point from 2013 (235) to 2015 (234). Scale score changes for these race/ethnic groups were not statistically significant.
- The average mathematics scale score for students who were eligible for the National School Lunch (NSL) Program was 230 in 2013 and 228 in 2015, a two (2) point decrease.
- In 2015, the percentage of students in Georgia who performed at or above *Basic* was 78 percent. This was not significantly different from 2013 (81 percent) or 2011 (80 percent).
- The percentage of students in Georgia who performed at or above *Basic* (78 percent) was significantly different than that of students in the nation's public schools (81 percent).
- In 2015, the percentage of students in Georgia who performed at or above *Proficient* was 35 percent. This was significantly different from 2013 (39 percent), but was not significantly different from 2011 (37 percent).
- The percentage of students in Georgia who performed at or above *Proficient* (35 percent) was significantly different than that of students in the nation's public schools (39 percent).
- In 2015, the percentage of students in Georgia who performed at *Advanced* was 5 percent. This was not significantly different from 2013 (7 percent) or 2011 (6 percent).
- The percentage of students in Georgia who performed at *Advanced* was 5 percent while the percentage for the nation's public schools was 7 percent.

KEY FINDINGS IN MATHEMATICS

Grade 8

- The average mathematics scale score for students in Georgia was 279, and was not significantly different from that in 2013 (279) or 2011 (278).
- Georgia's average scale score (279) was significantly different than for the nation's public schools (281).
- The average mathematics scale score for White students in Georgia decreased one (1) point from 2013 (292) to 2015 (291). The average scale score for Black students increased two (2) points from 2013 (262) to 2015 (264). The average scale score for Hispanic students decreased six (6) points from 2013 (276) to 2015 (270). Scale score changes for these race/ethnic groups were not statistically significant.
- The average mathematics scale score for students who were eligible for the National School Lunch (NSL) Program in Georgia was unchanged at 267 from 2013 to 2015.
- In 2015, the percentage of students in Georgia who performed at or above *Basic* was 67 percent. This was not significantly different from 2013 (68 percent) or 2011 (68 percent).
- The percentage of students in Georgia who performed at or above *Basic* (67 percent) was significantly different than the percentage for the nation's public schools (70 percent).
- In 2015, the percentage of students in Georgia who performed at or above *Proficient* was 28 percent. This was not significantly different from 2013 (29 percent) or 2011 (28 percent).
- The percentage of students in Georgia who performed at or above *Proficient* (28 percent) was significantly different than the percentage for the nation's public schools (32 percent).
- In 2015, the percentage of students in Georgia who performed at *Advanced* was 7 percent. This was not significantly different from 2013 (7 percent) or 2011 (6 percent).
- The percentage of students in Georgia who performed at *Advanced* was 7 percent while the percentage for the nation's public schools was 8 percent.

Table 1: Average Scale Scores – NAEP Grade 4 Mathematics 2000-2015

Average Scale Scores									
	2000	2003	2005	2007	2009	2011	2013	2015	Change 2000-2015
All Students	219*	230*	234	235	236	238	240*	236	+17
White	230*	241	243	246	247	249	250	245	+15
Black	204*	217*	221	222	221	224	226	224	+20
Hispanic	217*	219*	229	229	231	233	235	234	+17
Asian	N/A	248	255	255	256	263	263	260	+12**
Male	220*	231*	234	236	237	238	241	237	+17
Female	218*	229*	233	234	236	239*	239*	236	+18
FRL (NSL)	204*	219*	224*	224*	225	227	230	228	+24
Students with Disabilities	196*	209	218	219	215	214	216	214	+18
English Learner	N/A	208	208	212	220	219	217	216	+8**

*Value is significantly different from the 2015 value.

N/A – Reporting standards for sample size not met.

**Due to N/A, change reported for years other than 2000-2015.

Figure 1: Average Scale Scores – NAEP Grade 4 Mathematics 2000-2015

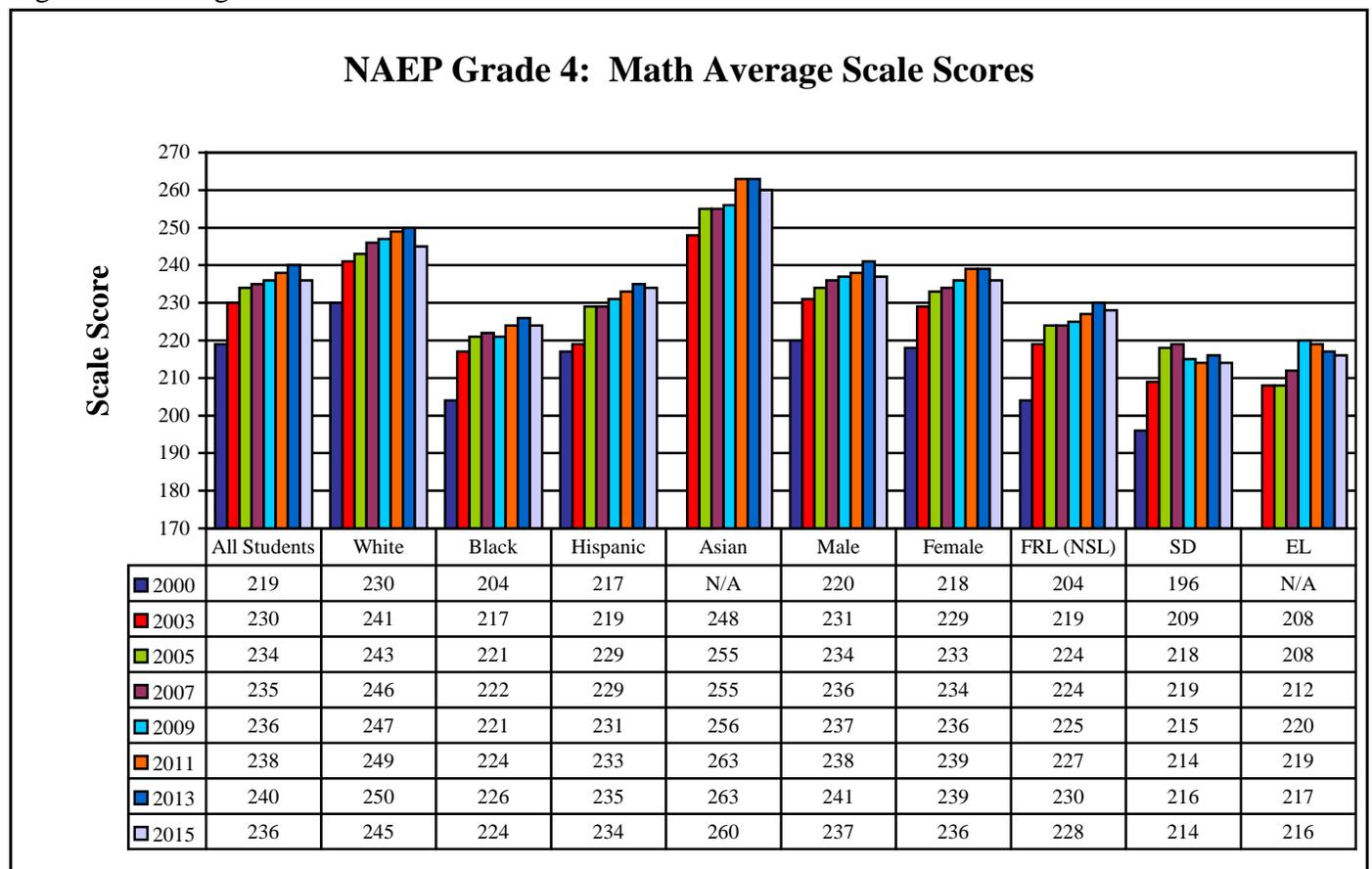


Table 2: Achievement Level – Percent At or Above Basic on NAEP Grade 4 Mathematics 2000-2015

Percent At or Above Basic									
	2000	2003	2005	2007	2009	2011	2013	2015	Change 2000-2015
All Students	57*	72*	76	79	78	80	81	78	+21
White	73*	84	87	90	90	91	91	88	+15
Black	36*	56	61	64	62	65	68	64	+28
Hispanic	58*	60	73	75	75	76	77	76	+18
Asian	N/A	87	95	90	93	94	95	94	+7**
Male	59*	72*	76	79	77	78	81	77	+18
Female	55*	71*	76	78	79	81	81	78	+23
FRL (NSL)	36*	59*	65	68	68	70	73	69	+33
Students with Disabilities	32*	43	54	58	53	49	53	49	+17
English Learner	N/A	41	42	51	59	56	54	53	+12**

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N/A – Reporting standards for sample size not met.

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Figure 2: Percent At or Above Basic – NAEP Grade 4 Mathematics 2000-2015

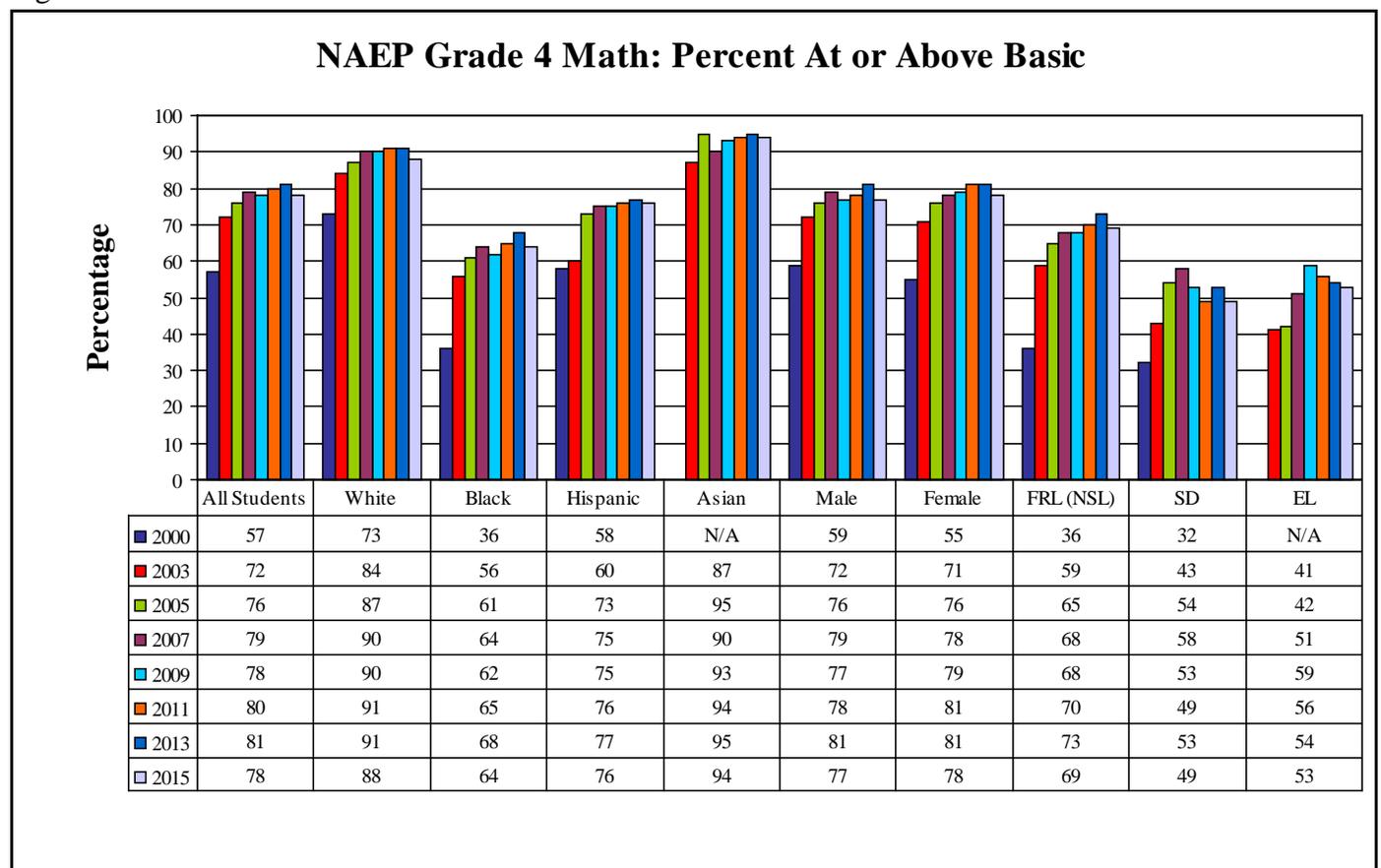


Table 3: Achievement Level – Percent At or Above Proficient in NAEP Grade 4 Mathematics 2000-2015

Percent At or Above Proficient									
	2000	2003	2005	2007	2009	2011	2013	2015	Change 2000-2015
All Students	17*	27*	30*	32	34	37	39*	35	+18
White	27*	40	43	46	48	51	53	47	+20
Black	5*	11*	12	13	15	18	20	19	+14
Hispanic	12*	13*	22	20	26	29	33	28	+16
Asian	N/A	53	57	63	60	70	71	65	+12**
Male	19*	29*	30	33	35	37	40	36	+17
Female	16*	25*	29	30	32	37	38	33	+17
FRL (NSL)	5*	12*	16*	16*	19	21	25	23	+18
Students with Disabilities	4*	11	15	18	13	14	16	14	+10
English Learner	N/A	8	4	5	14	13	11	6	-2**

*Value is significantly different from the 2015 value.

N/A – Reporting standards for sample size not met.

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Figure 3: Percent At or Above Proficient – NAEP Grade 4 Mathematics 2000-2015

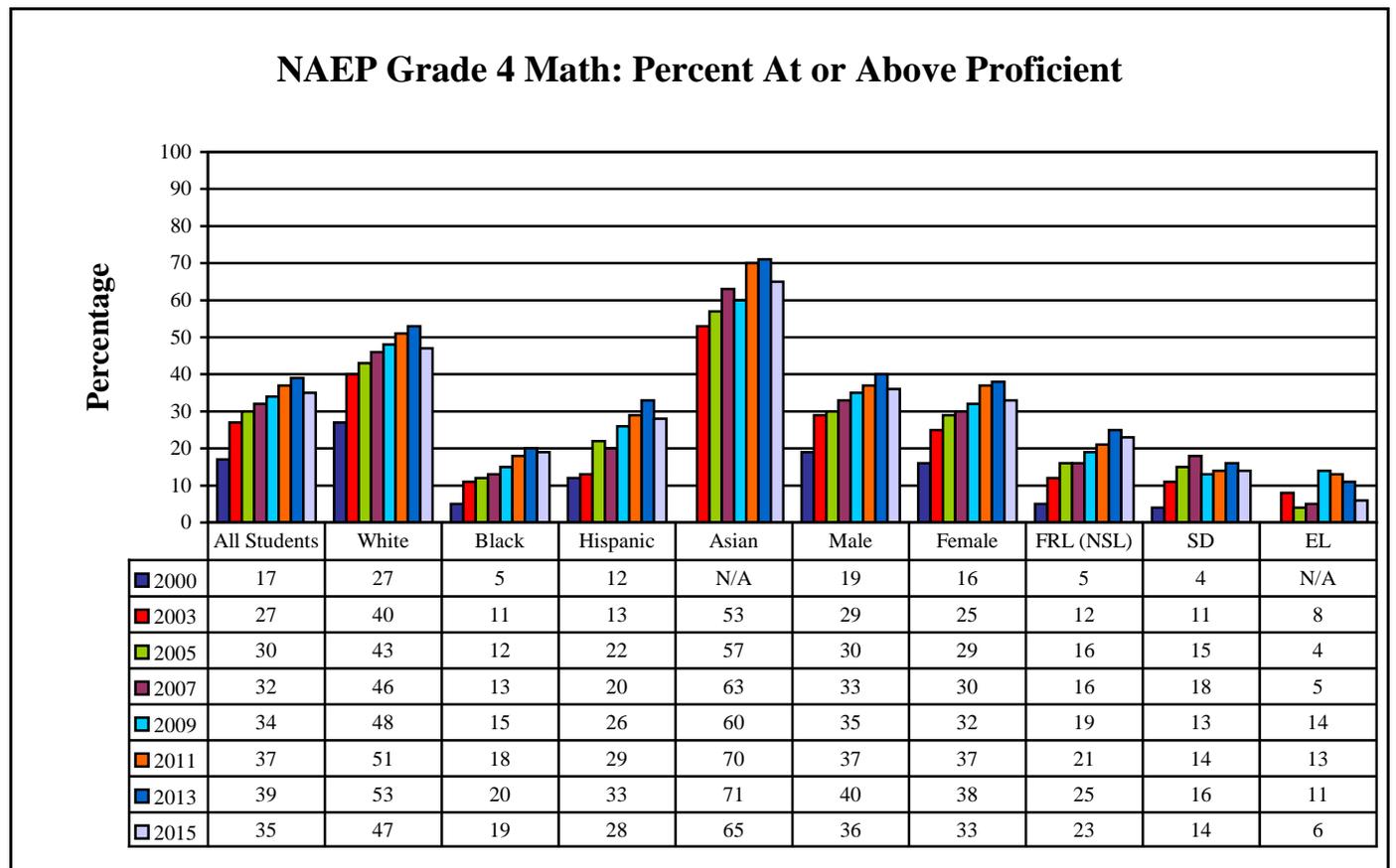


Table 4: Average Scale Scores – NAEP Grade 8 Mathematics 2000-2015

Average Scale Scores									
	2000	2003	2005	2007	2009	2011	2013	2015	Change 2000-2015
All Students	265*	270*	272*	275*	278	278	279	279	+14
White	279*	284*	284*	288	289	291	292	291	+12
Black	244*	250*	255*	261	262	262	262	264	+20
Hispanic	N/A	262	258*	266	270	277	276	270	+8**
Asian	N/A	286*	301*	N/A	300	302	310	317	+31**
Male	265*	270*	273*	275	277	279	279	279	+14
Female	265*	269*	272*	274*	278	278	279	279	+14
FRL (NSL)	246*	253*	257*	262*	265	267	267	267	+21
Students with Disabilities	232*	234*	241	246	245	244	244	245	+13
English Learner	N/A	239	242	237	N/A	245	239	242	+3**

*Value is significantly different from the 2015 value.

N/A – Reporting standards for sample size not met.

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Figure 4: Average Scale Scores – NAEP Grade 8 Mathematics 2000-2015

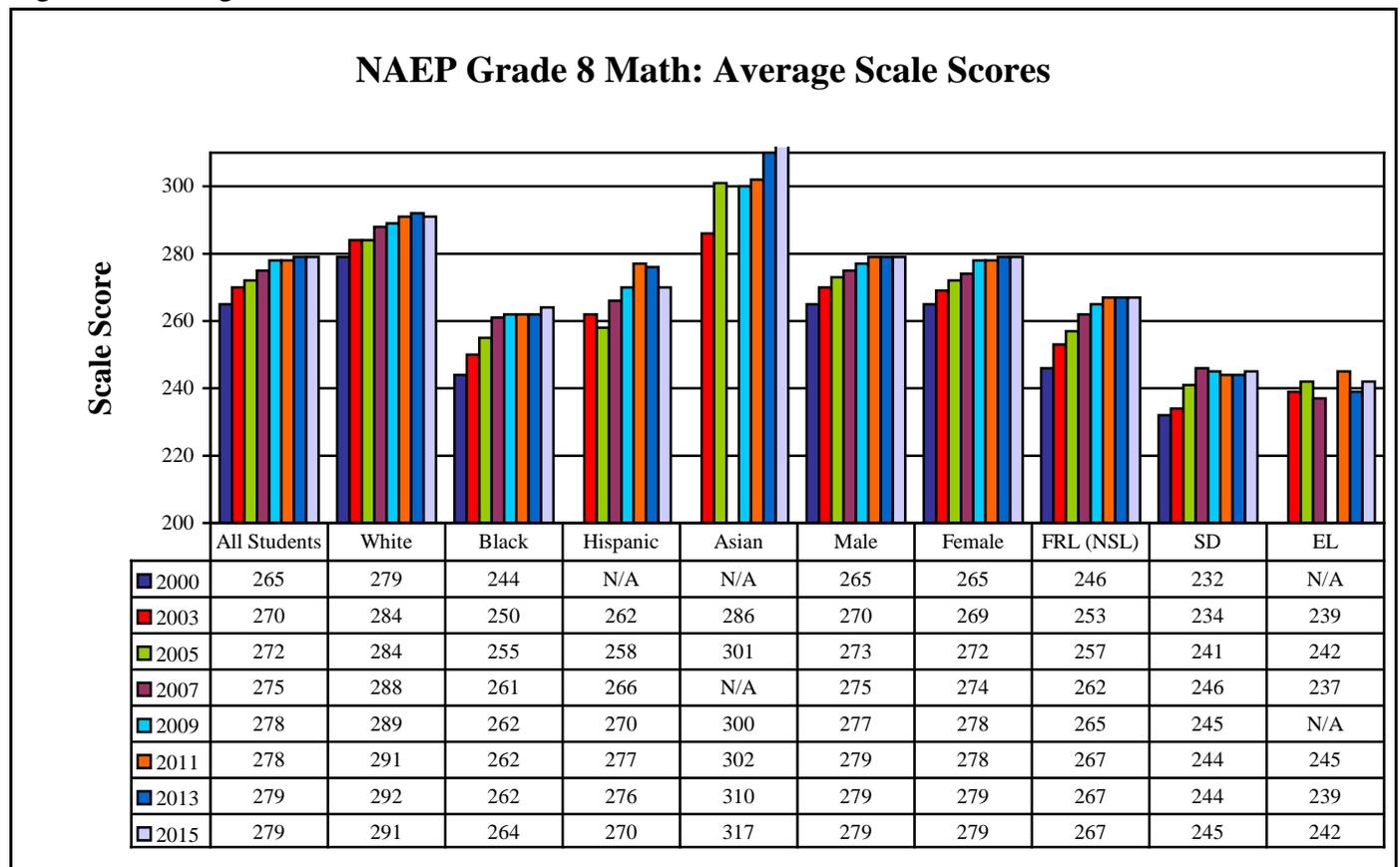


Table 5: Achievement Level – Percent At or Above Basic on NAEP Grade 8 Mathematics 2000-2015

Percent At or Above Basic									
	2000	2003	2005	2007	2009	2011	2013	2015	Change 2000-2015
All Students	54*	59*	62*	64	67	68	68	67	+13
White	71*	77	76	80	80	82	81	81	+10
Black	28*	36*	43*	48	50	51	51	52	+24
Hispanic	N/A	49	48*	55	59	69	67	60	+11**
Asian	N/A	73	84	N/A	86	88	86	90	+17**
Male	55*	60*	62	64	65	67	68	67	+12
Female	54*	59*	62*	64	68	70	68	67	+13
FRL (NSL)	30*	39*	44*	49*	53	58	57	57	+27
Students with Disabilities	26	24	29	34	28	30	30	29	+3
English Learner	N/A	25	27	20	N/A	28	22	26	+1**

*Value is significantly different from the 2015 value.

N/A – Reporting standards for sample size not met.

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Figure 5: Percent At or Above Basic – NAEP Grade 8 Mathematics 2000-2015

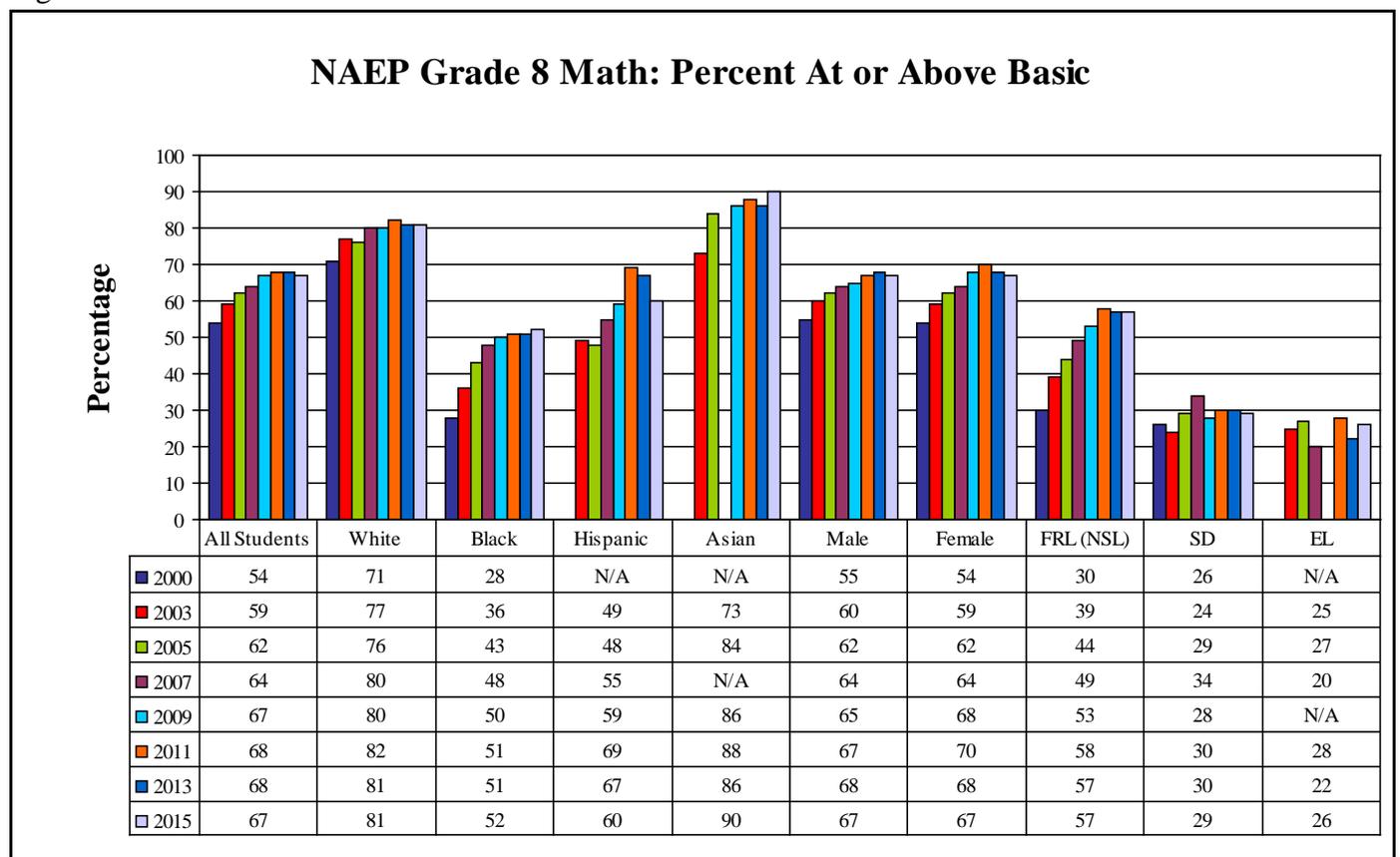


Table 6: Achievement Level – Percent At or Above Proficient on NAEP Grade 8 Mathematics 2000-2015

Percent At or Above Proficient									
	2000	2003	2005	2007	2009	2011	2013	2015	Change 2000-2015
All Students	19*	22*	23*	25*	27	28	29	28	+9
White	27*	32*	34*	37	39	40	42	41	+14
Black	4*	7*	8*	11	11	12	12	13	+9
Hispanic	N/A	14	12	16	18	25	24	19	+5**
Asian	N/A	40*	52	N/A	49	52	62	68	+28**
Male	19*	24*	24*	26	27	29	30	29	+10
Female	18*	20*	23*	23*	27	27	29	28	+10
FRL (NSL)	5*	8*	9*	12	13	16	17	15	+10
Students with Disabilities	5	6	6	6	6	4	6	5	0
English Learner	N/A	4	10	1	N/A	6	4	4	0**

*Value is significantly different from the 2015 value.

N/A – Reporting standards for sample size not met.

**Due to N/A, change reported for years other than 2000-2015.

Figure 6: Percent At or Above Proficient – NAEP Grade 8 Mathematics 2000-2015

