

**TESTING BRIEF**  
**National Assessment of Educational Progress (NAEP) - Mathematics**  
**January 30 – March 10, 2017**

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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, 2015 and 2017). This report presents results from 2000 to 2017. This is the first year for digitally based assessment (DBA) results for NAEP.

**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 2015 (236).
- Georgia's average scale score in 2017 (236) was significantly different than that of the nation's public schools (239).
- The average mathematics scale score for White students in Georgia increased two (2) points from 2015 (245) to 2017 (247). The average scale score for Black students decreased one (1) point from 2015 (224) to 2017 (223). The average scale score for Hispanic students decreased six (6) points from 2015 (234) to 2017 (228). 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 228 in 2015 and 226 in 2017, a two (2) point decrease.
- In 2017, the percentage of students in Georgia who performed at or above *Basic* was 77 percent. This was not significantly different from 2015 (78 percent).
- The percentage of students in Georgia who performed at or above *Basic* (77 percent) was not significantly different than that of students in the nation's public schools (79 percent).
- In 2015, the percentage of students in Georgia who performed at or above *Proficient* was 35 percent. This was not significantly different from 2015 (35 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 (40 percent).
- In 2015, the percentage of students in Georgia who performed at *Advanced* was 6 percent. This was not significantly different from 2015 (5 percent).
- The percentage of students in Georgia who performed at *Advanced* was 6 percent while the percentage for the nation's public schools was 8 percent.

## KEY FINDINGS IN MATHEMATICS

### Grade 8

- The average mathematics scale score for students in Georgia was 281, and was not significantly different from that in 2015 (279) or 2013 (279).
- Georgia's average scale score (281) was not significantly different than for the nation's public schools (282).
- The average mathematics scale score for White students in Georgia increased two (2) points from 2015 (291) to 2017 (293). The average scale score for Black students did not change from 2015 (264) to 2017 (264). The average scale score for Hispanic students increased five (5) points from 2015 (270) to 2017 (275). 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 2015 to 2017.
- In 2017, the percentage of students in Georgia who performed at or above *Basic* was 68 percent. This was not significantly different from 2015 (67 percent) or 2013 (68 percent).
- The percentage of students in Georgia who performed at or above *Basic* (68 percent) was not significantly different than the percentage for the nation's public schools (69 percent).
- In 2017, the percentage of students in Georgia who performed at or above *Proficient* was 31 percent. This was not significantly different from 2015 (28 percent) or 2013 (29 percent).
- The percentage of students in Georgia who performed at or above *Proficient* (31 percent) was not significantly different than the percentage for the nation's public schools (33 percent).
- In 2017, the percentage of students in Georgia who performed at *Advanced* was 9 percent. This was not significantly different from 2015 (7 percent).
- The percentage of students in Georgia who performed at *Advanced* was 9 percent while the percentage for the nation's public schools was 10 percent.

Table 1: Average Scale Scores – NAEP Grade 4 Mathematics 2000-2017

Average Scale Scores										
	2000	2003	2005	2007	2009	2011	2013	2015	2017	Change 2000-2017
<b>All Students</b>	219*	230*	234	235	236	238	240*	236	236	+17
<b>White</b>	230*	241*	243	246	247	249	250	245	247	+17
<b>Black</b>	204*	217*	221	222	221	224	226	224	223	+19
<b>Hispanic</b>	217*	219*	229	229	231	233	235	234	228	+11
<b>Asian</b>	N/A	248*	255*	255*	256*	263	263	260	272	+24**
<b>Male</b>	220*	231*	234	236	237	238	241	237	237	+17
<b>Female</b>	218*	229*	233	234	236	239	239	236	236	+18
<b>FRL (NSL)</b>	204*	219*	224	224	225	227	230*	228	226	+22
<b>Students with Disabilities</b>	196*	209	218*	219*	215	214	216	214	210	+14
<b>English Learner</b>	N/A	208	208	212	220*	219*	217*	216*	208	0**

\*Value is significantly different from the 2017 value.

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

\*\*Due to N/A, change reported for years other than 2000-2017.

Figure 1: Average Scale Scores – NAEP Grade 4 Mathematics 2000-2017

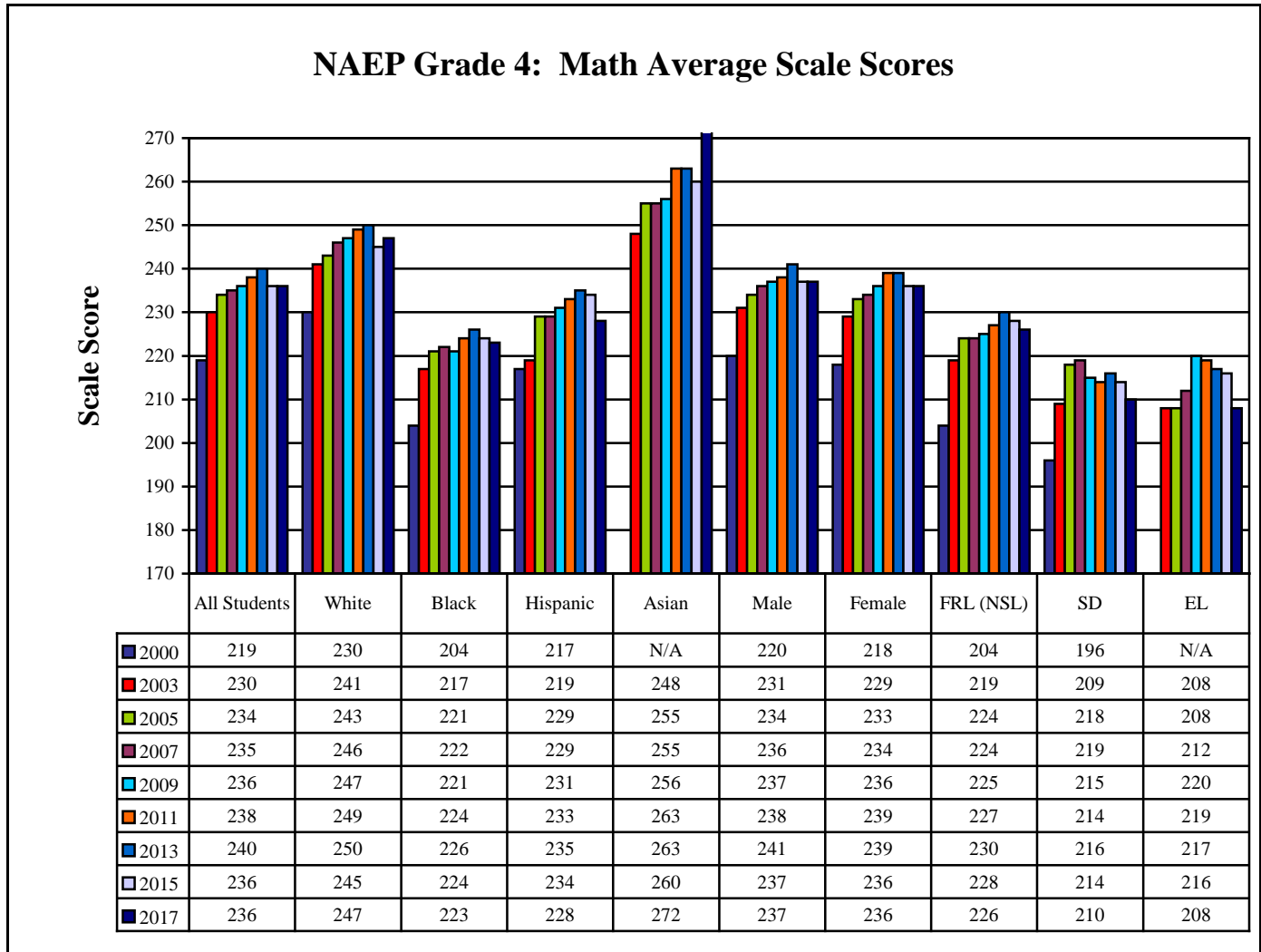


Table 2: Achievement Level – Percent At or Above Basic on NAEP Grade 4 Mathematics 2000-2017

Percent At or Above Basic										
	2000	2003	2005	2007	2009	2011	2013	2015	2017	Change 2000-2017
All Students	57*	72*	76	79	78	80	81*	78	77	+20
White	73*	84	87	90	90	91	91	88	88	+15
Black	36*	56*	61	64	62	65	68	64	65	+29
Hispanic	58*	60	73	75	75	76	77	76	69	+11
Asian	N/A	87	95	90	93	94	95	94	97	+10**
Male	59*	72*	76	79	77	78	81*	77	75	+16
Female	55*	71*	76	78	79	81	81	78	78	+23
FRL (NSL)	36*	59*	65	68	68	70	73	69	67	+31
Students with Disabilities	32*	43	54	58*	53	49	53	49	43	+11
English Learner	N/A	41	42	51	59	56	54	53	39	-2**

\*Value is significantly different from the 2017 value.

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Figure 2: Percent At or Above Basic – NAEP Grade 4 Mathematics 2000-2017

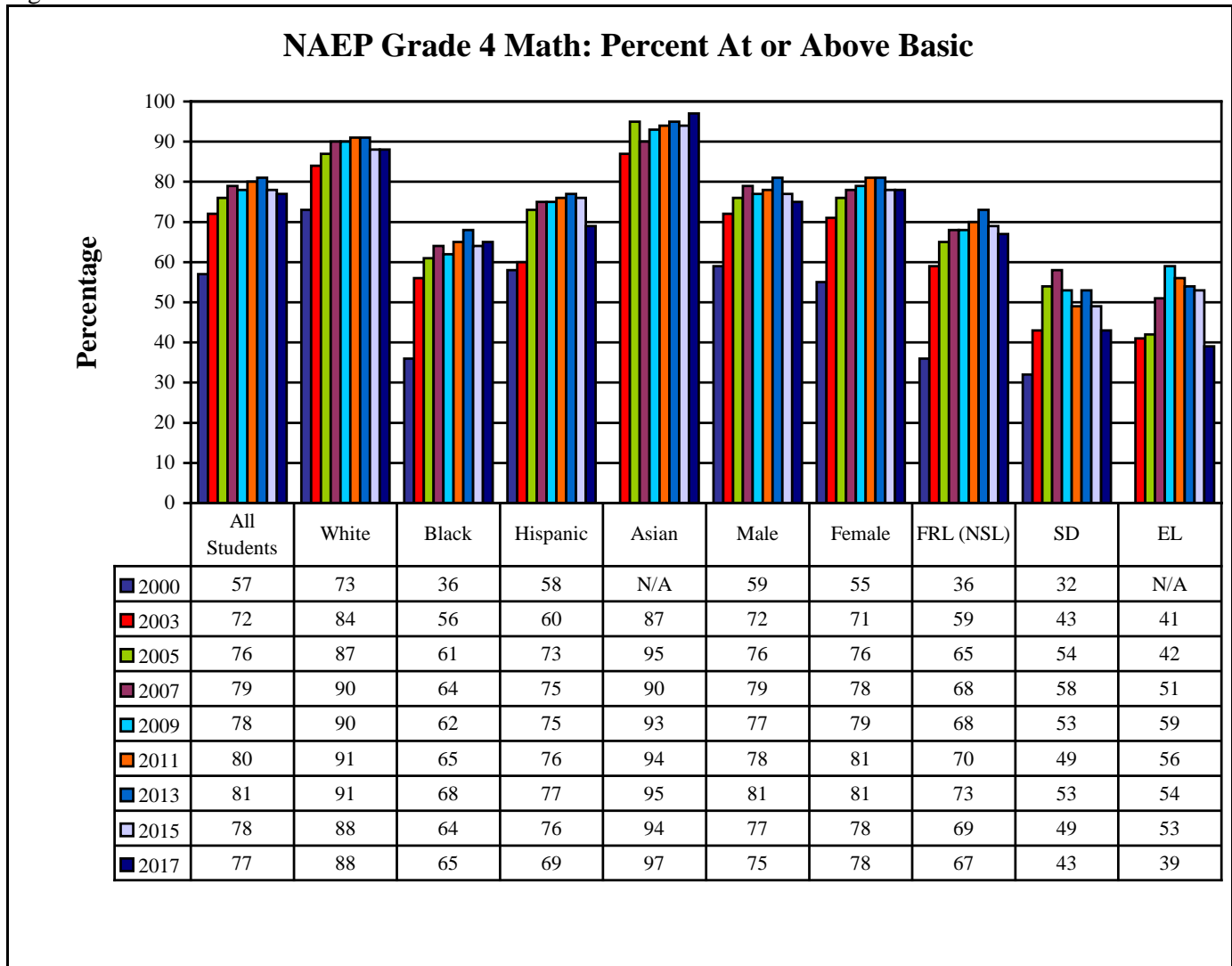


Table 3: Achievement Level – Percent At or Above Proficient on NAEP Grade 4 Mathematics 2000-2017

Percent At or Above Proficient										
	2000	2003	2005	2007	2009	2011	2013	2015	2017	Change 2000-2017
<b>All Students</b>	17*	27*	30*	32	34	37	39*	35	35	+18
<b>White</b>	27*	40	43	46	48	51	53	47	50	+23
<b>Black</b>	5*	11*	12	13	15	18	20	19	18	+13
<b>Hispanic</b>	12*	13*	22	20	26	29	33	28	25	+13
<b>Asian</b>	N/A	53	57	63	60	70	71	65	81	+28**
<b>Male</b>	19*	29*	30	33	35	37	40	36	37	+18
<b>Female</b>	16*	25*	29	30	32	37	38	33	34	+18
<b>FRL (NSL)</b>	5*	12*	16*	16*	19	21	25	23	21	+16
<b>Students with Disabilities</b>	4*	11	15	18	13	14	16	14	14	+10
<b>English Learner</b>	N/A	8	4	5	14	13	11	6	6	-2**

\*Value is significantly different from the 2017 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 2000-2017

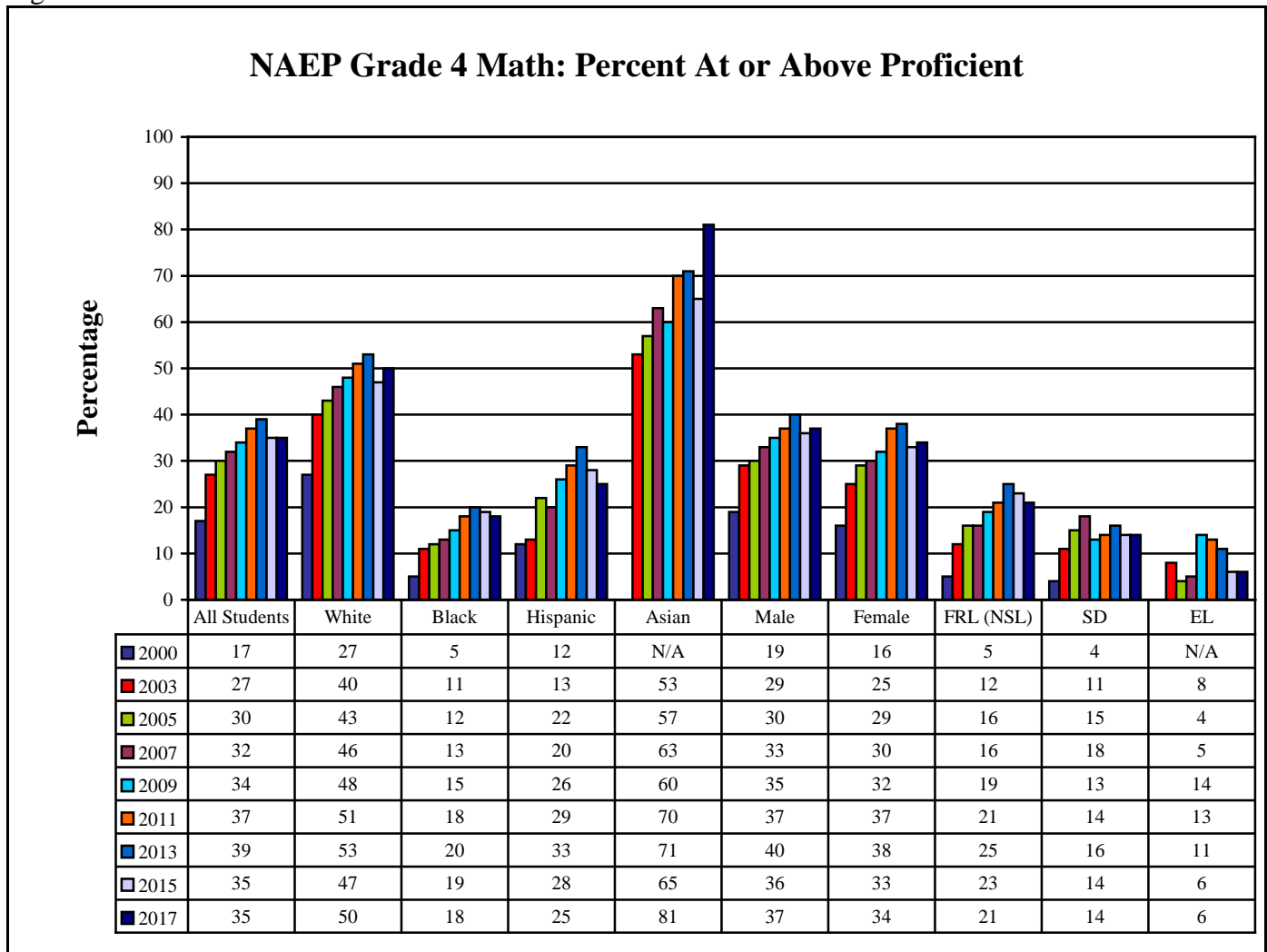


Table 4: Average Scale Scores – NAEP Grade 8 Mathematics 2000-2017

Average Scale Scores										
	2000	2003	2005	2007	2009	2011	2013	2015	2017	Change 2000-2017
<b>All Students</b>	265*	270*	272*	275*	278*	278	279	279	281	+16
<b>White</b>	279*	284*	284*	288*	289	291	292	291	293	+14
<b>Black</b>	244*	250*	255*	261	262	262	262	264	264	+20
<b>Hispanic</b>	N/A	262*	258*	266	270	277	276	270	275	+13**
<b>Asian</b>	N/A	286*	301*	N/A	300*	302	310	317	320	+34**
<b>Male</b>	265*	270*	273*	275*	277*	279	279	279	282	+17
<b>Female</b>	265*	269*	272*	274*	278	278	279	279	280	+15
<b>FRL (NSL)</b>	246*	253*	257*	262*	265	267	267	267	267	+21
<b>Students with Disabilities</b>	232*	234*	241*	246	245	244	244	245	251	+19
<b>English Learner</b>	N/A	239	242	237	N/A	245	239	242	238	-1**

\*Value is significantly different from the 2017 value.

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

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Figure 4: Average Scale Scores – NAEP Grade 8 Mathematics 2000-2017

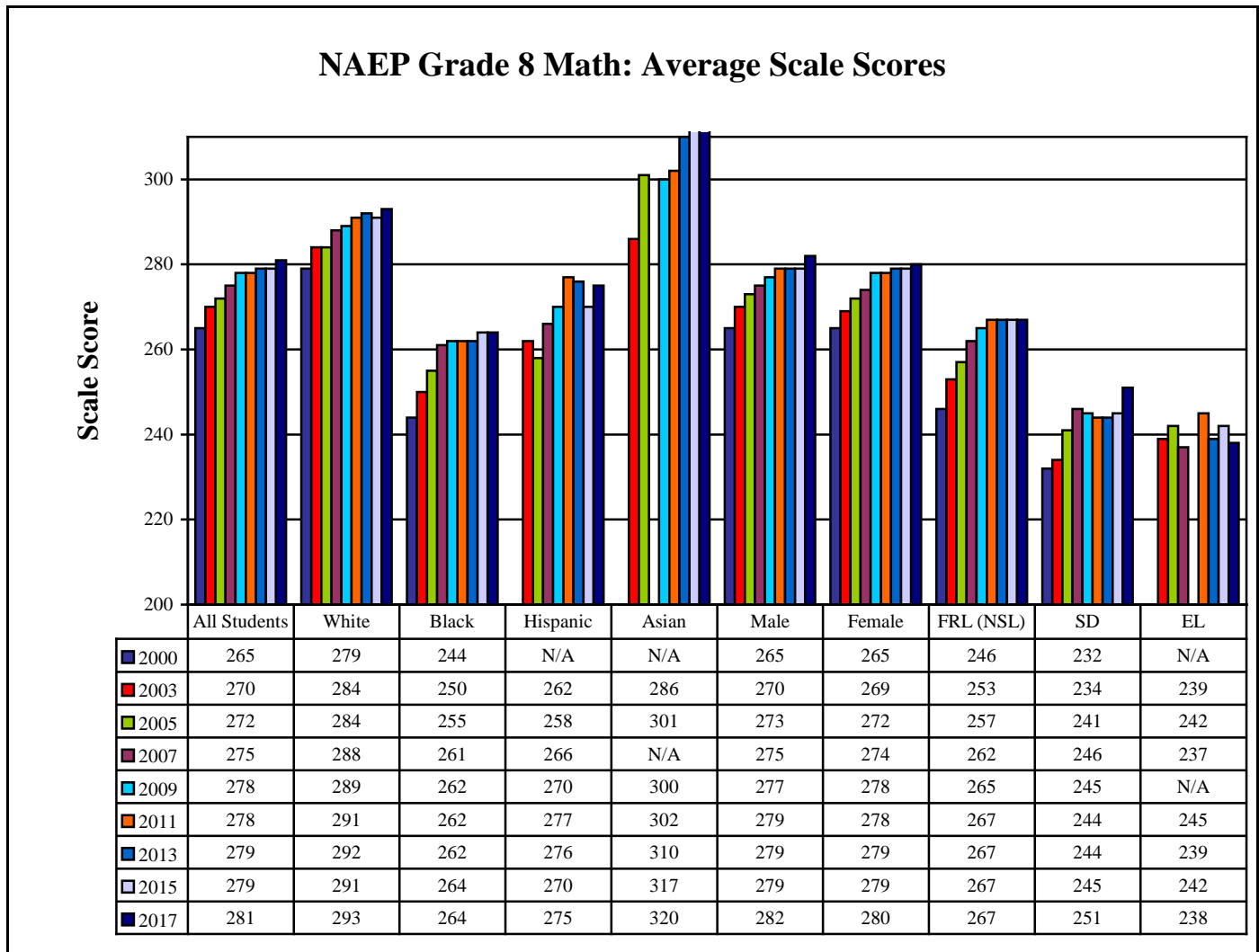


Table 5: Achievement Level – Percent At or Above Basic on NAEP Grade 8 Mathematics 2000-2017

Percent At or Above Basic										
	2000	2003	2005	2007	2009	2011	2013	2015	2017	Change 2000-2017
<b>All Students</b>	54*	59*	62*	64	67	68	68	67	68	+14
<b>White</b>	71*	77*	76*	80	80	82	81	81	81	+10
<b>Black</b>	28*	36*	43*	48	50	51	51	52	51	+23
<b>Hispanic</b>	N/A	49*	48*	55	59	69	67	60	64	+15**
<b>Asian</b>	N/A	73*	84	N/A	86	88	86	90	93	+20**
<b>Male</b>	55*	60*	62*	64	65	67	68	67	69	+14
<b>Female</b>	54*	59*	62*	64	68	70	68	67	68	+14
<b>FRL (NSL)</b>	30*	39*	44*	49*	53	58	57	57	56	+26
<b>Students with Disabilities</b>	26	24*	29	34	28	30	30	29	36	+10
<b>English Learner</b>	N/A	25	27	20	N/A	28	22	26	21	-4**

\*Value is significantly different from the 2017 value.

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

\*\*Due to N/A, change reported for years other than 2000-2017.

Figure 5: Percent At or Above Basic – NAEP Grade 8 Mathematics 2000-2017

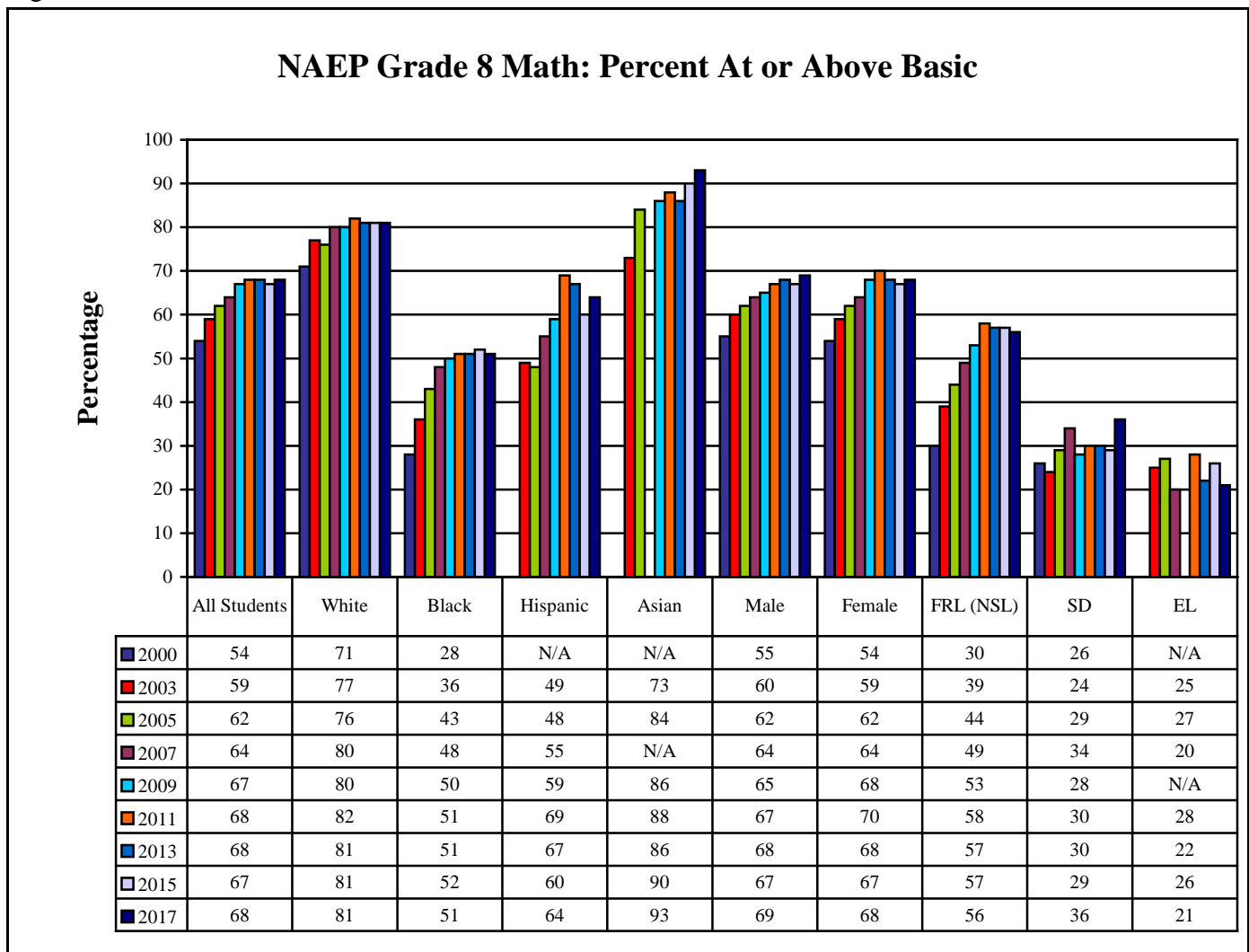


Table 6: Achievement Level – Percent At or Above Proficient on NAEP Grade 8 Mathematics 2000-2017

Percent At or Above Proficient										
	2000	2003	2005	2007	2009	2011	2013	2015	2017	Change 2000-2017
All Students	19*	22*	23*	25*	27	28	29	28	31	+12
White	27*	32*	34*	37	39	40	42	41	44	+17
Black	4*	7*	8*	11	11	12	12	13	14	+10
Hispanic	N/A	14	12	16	18	25	24	19	23	+9**
Asian	N/A	40*	52	N/A	49	52	62	68	70	+30**
Male	19*	24*	24*	26	27	29	30	29	32	+13
Female	18*	20*	23*	23*	27	27	29	28	31	+13
FRL (NSL)	5*	8*	9*	12	13	16	17	15	17	+12
Students with Disabilities	5	6	6	6	6	4	6	5	9	+4
English Learner	N/A	4	10	1	N/A	6	4	4	4	0**

\*Value is significantly different from the 2017 value.

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

\*\*Due to N/A, change reported for years other than 2000-2017.

Figure 6: Percent At or Above Proficient – NAEP Grade 8 Mathematics 2000-2017

