

TESTING BRIEF
National Assessment of Educational Progress (NAEP) - Mathematics
January 28 – March 8, 2019

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 thirteen 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, 2017, and 2019). This report presents results from 2000 to 2019. This is the second 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 238. This was not significantly different from the score in 2015 (236) nor from the score in 2017 (236).
- Georgia’s average scale score in 2019 (238) was significantly different than that of the nation’s public schools (240).
- The average mathematics scale score for White students in Georgia increased two (2) points from 2017 (247) to 2019 (249). The average scale score for Black students increased one (1) point from 2017 (223) to 2019 (224). The average scale score for Hispanic students increased two (2) points from 2017 (228) to 2019 (230). 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 Program (NSLP) was 226 in 2017 and 227 in 2019, a one (1) point increase.
- In 2019, the percentage of students in Georgia who performed at or above Basic was 77 percent. This was not significantly different from 2017 (77 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 (80 percent).
- In 2019, the percentage of students in Georgia who performed at or above Proficient was 36 percent. This was not significantly different from 2017 (35 percent).
- The percentage of students in Georgia who performed at or above Proficient (36 percent) was not significantly different than that of students in the nation’s public schools (40 percent).
- In 2019, the percentage of students in Georgia who performed at Advanced was 8 percent. This was not significantly different from 2017 (6 percent).
- The percentage of students in Georgia who performed at Advanced was 8 percent while the percentage for the nation’s public schools was 9 percent.
- There are 24 states/jurisdictions whose average scale score is statistically higher than Georgia, their scores range from 241 to 250.
- There are 19 states/jurisdictions whose average scale score is not significantly different than Georgia, their scores range from 236 to 241.
- There are 8 states/jurisdictions whose average scale score is lower than Georgia, their scores range from 230 to 235.

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 2015 (279) or 2017 (281).
- Georgia's average scale score (279) was not significantly different from the nation's public schools (281).
- The average mathematics scale score for White students in Georgia decreased one (1) point from 2017 (293) to 2019 (292). The average scale score for Black students decreased from 2017 (264) to 2019 (262). The average scale score for Hispanic students did not change from 2017 (275) to 2019 (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 Program (NSLP) in Georgia decreased two points from 2017 (267) to 2019 (265).
- The percentage of students in Georgia who performed at or above *Basic* was 67 percent. This was not significantly different from 2017 (68 percent).
- The percentage of students in Georgia who performed at or above *Basic* (67 percent) was not significantly different than the percentage for the nation's public schools (68 percent).
- In 2019, the percentage of students in Georgia who performed at or above *Proficient* was 31 percent. This was not significantly different from 2017 (31 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 2019, the percentage of students in Georgia who performed at *Advanced* was 9 percent. This was not significantly different from 2017 (9 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.
- There are 23 states/jurisdictions whose average scale score is statistically higher than Georgia, their scores range from 282 to 294.
- There are 14 states/jurisdictions whose average scale score is not significantly different than Georgia, their scores range from 280 to 283.
- There are 14 states/jurisdictions whose average scale score is statistically lower than Georgia, their scores range from 269 to 279.

Table 1: Average Scale Scores – NAEP Grade 4 Mathematics 2000-2019

Average Scale Scores											
	2000	2003	2005	2007	2009	2011	2013	2015	2017	2019	Change 2000-2019
All Students	219*	230*	234*	235*	236	238	240	236	236	238	+19
White	230*	241*	243*	246*	247	249	250	245	247	249	+19
Black	204*	217*	221	222	221	224	226	224	223	224	+20
Hispanic	217*	219*	229	229	231	233	235	234	228	230	+13
Asian	N/A	248*	255*	255*	256*	263	263	260	272	273	+25**
Male	220*	231*	234	236	237	238	241	237	237	238	+18
Female	218*	229*	233	234	236	239	239	236	236	237	+19
FRL (NSL)	204*	219*	224	224	225	227	230*	228	226	227	+23
Students with Disabilities	196*	209	218*	219*	215	214	216	214	210	215	+19
English Learner	N/A	208	208	212	220*	219*	217*	216*	208	223	+15**

*Value is significantly different from the 2019 value.

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

**Due to N/A, change reported for years other than 2000-2019.

Figure 1: Average Scale Scores – NAEP Grade 4 Mathematics 2000-2019

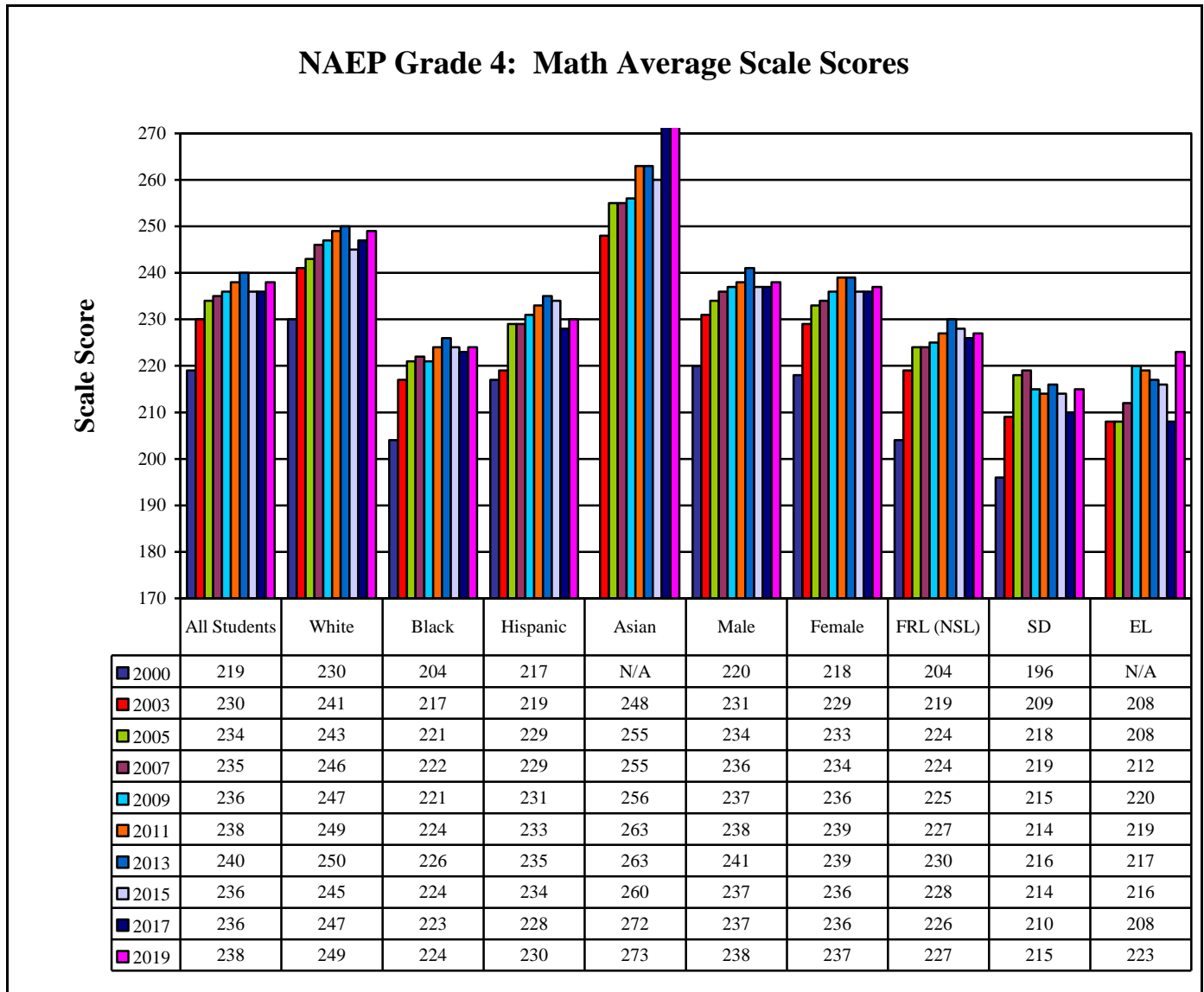


Table 2: Achievement Level – Percent At or Above Basic on NAEP Grade 4 Mathematics 2000-2019

Percent At or Above Basic											
	2000	2003	2005	2007	2009	2011	2013	2015	2017	2019	Change 2000-2019
All Students	57*	72*	76	79	78	80	81*	78	77	77	+20
White	73*	84*	87	90	90	91	91	88	88	90	+17
Black	36*	56	61	64	62	65	68	64	65	63	+27
Hispanic	58*	60	73	75	75	76	77	76	69	74	+16
Asian	N/A	87	95	90	93	94	95	94	97	97	+10**
Male	59*	72*	76	79	77	78	81*	77	75	77	+18
Female	55*	71*	76	78	79	81	81	78	78	78	+23
FRL (NSL)	36*	59*	65	68	68	70	73	69	67	68	+32
Students with Disabilities	32*	43	54	58*	53	49	53	49	43	51	+19
English Learner	N/A	41	42	51	59	56	54	53	39	66	+25**

*Value is significantly different from the 2019 value.

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

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Figure 2: Percent At or Above Basic – NAEP Grade 4 Mathematics 2000-2019

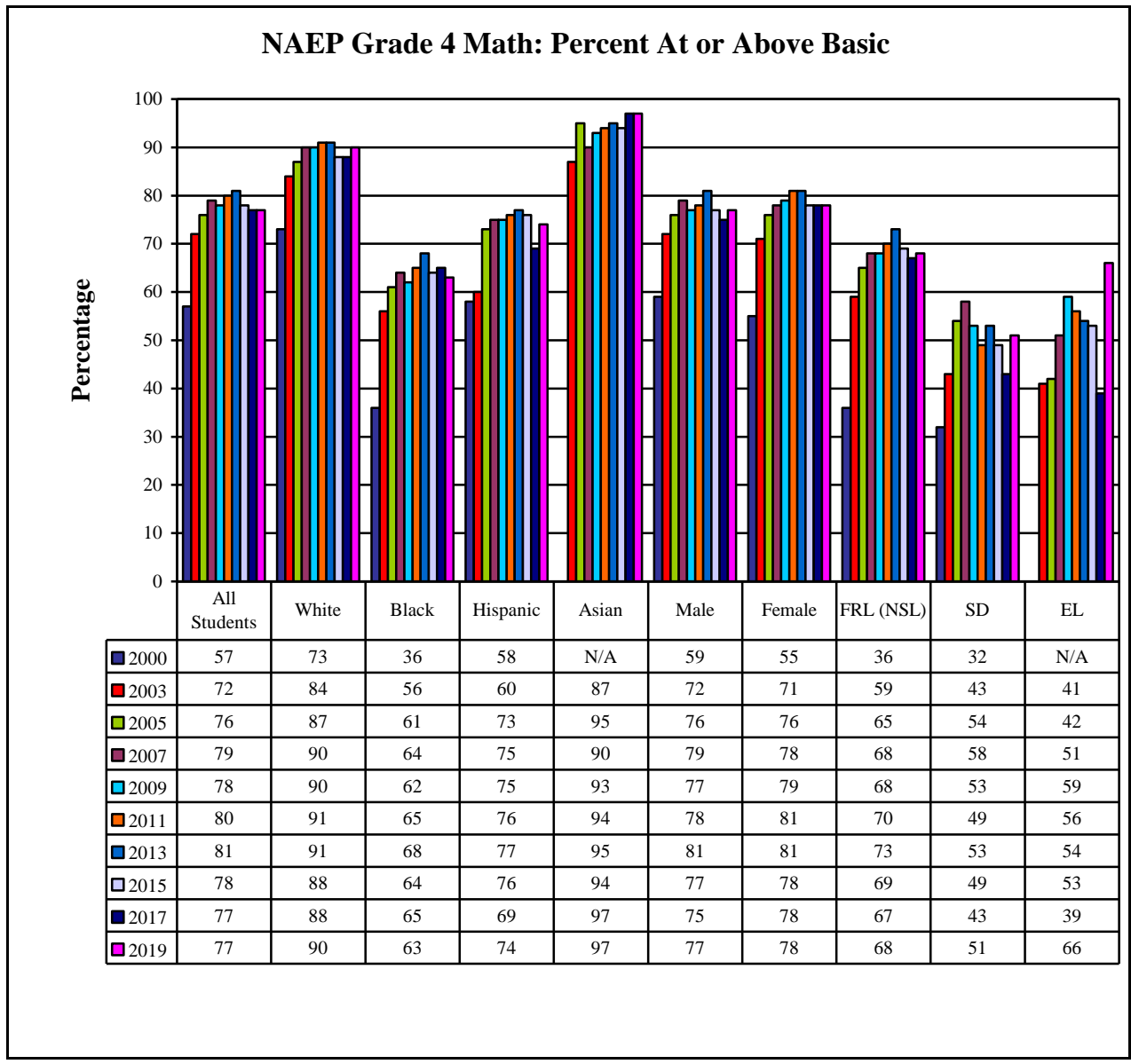


Table 3: Achievement Level – Percent At or Above Proficient on NAEP Grade 4 Mathematics 2000-2019

Percent At or Above Proficient											
	2000	2003	2005	2007	2009	2011	2013	2015	2017	2019	Change 2000-2019
All Students	17*	27*	30*	32*	34	37	39*	35	35	36	+19
White	27*	40*	43	46	48	51	53	47	50	52	+25
Black	5*	11*	12*	13	15	18	20	19	18	19	+14
Hispanic	12*	13*	22	20	26	29	33	28	25	25	+13
Asian	N/A	53	57	63	60	70	71	65	81	82	+29**
Male	19*	29*	30*	33	35	37	40	36	37	37	+18
Female	16*	25*	29	30	32	37	38	33	34	36	+20
FRL (NSL)	5*	12*	16*	16*	19	21	25	23	21	22	+17
Students with Disabilities	4	11	15	18	13	14	16	14	14	17	+13
English Learner	N/A	8	4	5	14	13	11	6	6	14	+6**

*Value is significantly different from the 2019 value.

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

**Due to N/A, change reported for years other than 2000-2019.

Figure 3: Percent At or Above Proficient – NAEP Grade 4 Mathematics 2000-2019

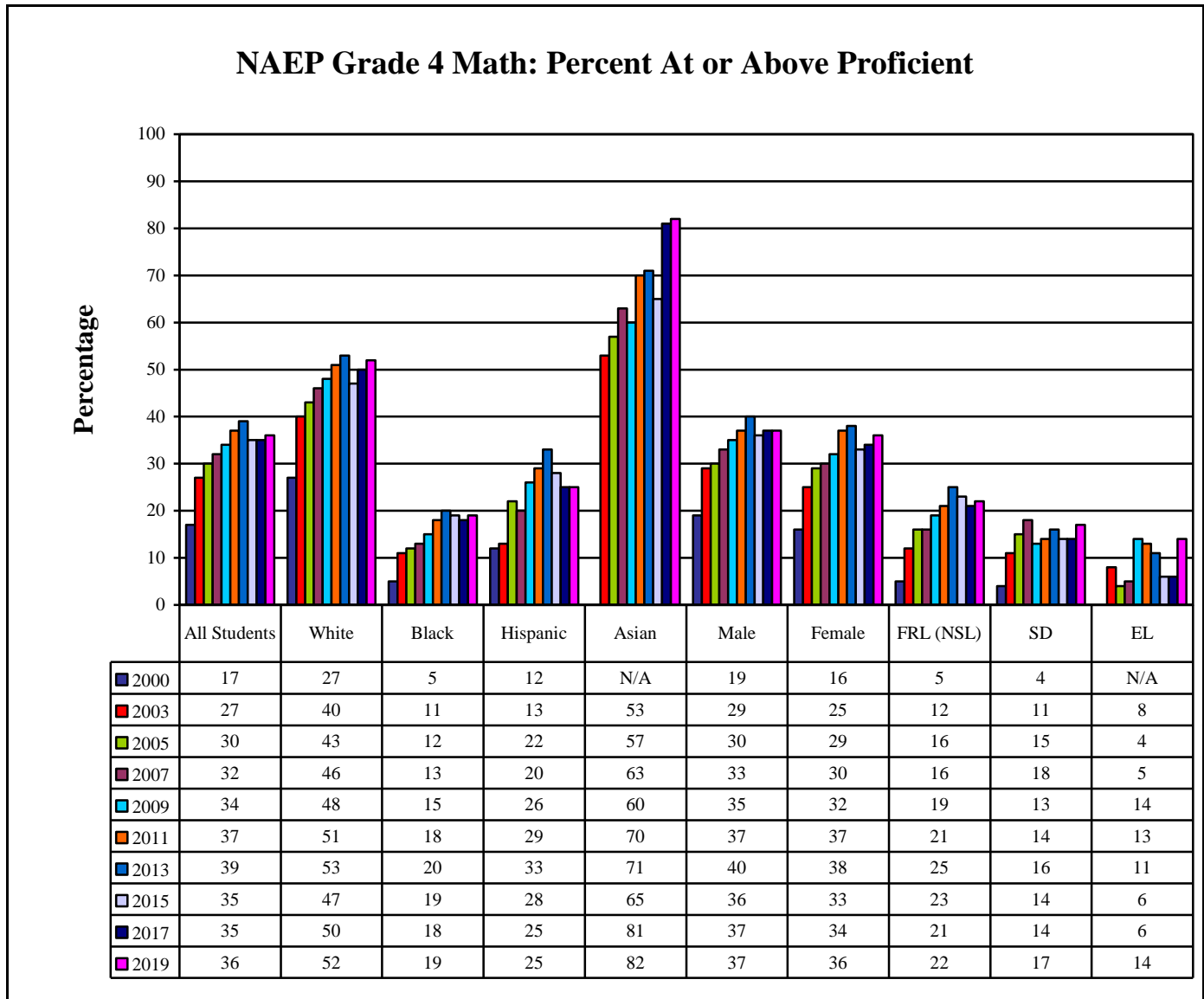


Table 4: Average Scale Scores – NAEP Grade 8 Mathematics 2000-2019

Average Scale Scores											
	2000	2003	2005	2007	2009	2011	2013	2015	2017	2019	Change 2000-2019
All Students	265*	270*	272*	275*	278	278	279	279	281	279	+14
White	279*	284*	284*	288	289	291	292	291	293	292	+13
Black	244*	250*	255*	261	262	262	262	264	264	262	+18
Hispanic	N/A	262*	258*	266	270	277	276	270	275	275	+13**
Asian	N/A	286*	301*	N/A	300*	302*	310	317	320	324	+38**
Male	265*	270*	273*	275	277	279	279	279	282	279	+14
Female	265*	269*	272*	274*	278	278	279	279	280	280	+15
FRL (NSL)	246*	253*	257	262	265	267	267	267	267	265	+19
Students with Disabilities	232*	234*	241*	246	245	244	244	245	251	246	+14
English Learner	N/A	239	242	237	N/A	245	239	242	238	244	+5**

*Value is significantly different from the 2019 value.

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

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Figure 4: Average Scale Scores – NAEP Grade 8 Mathematics 2000-2019

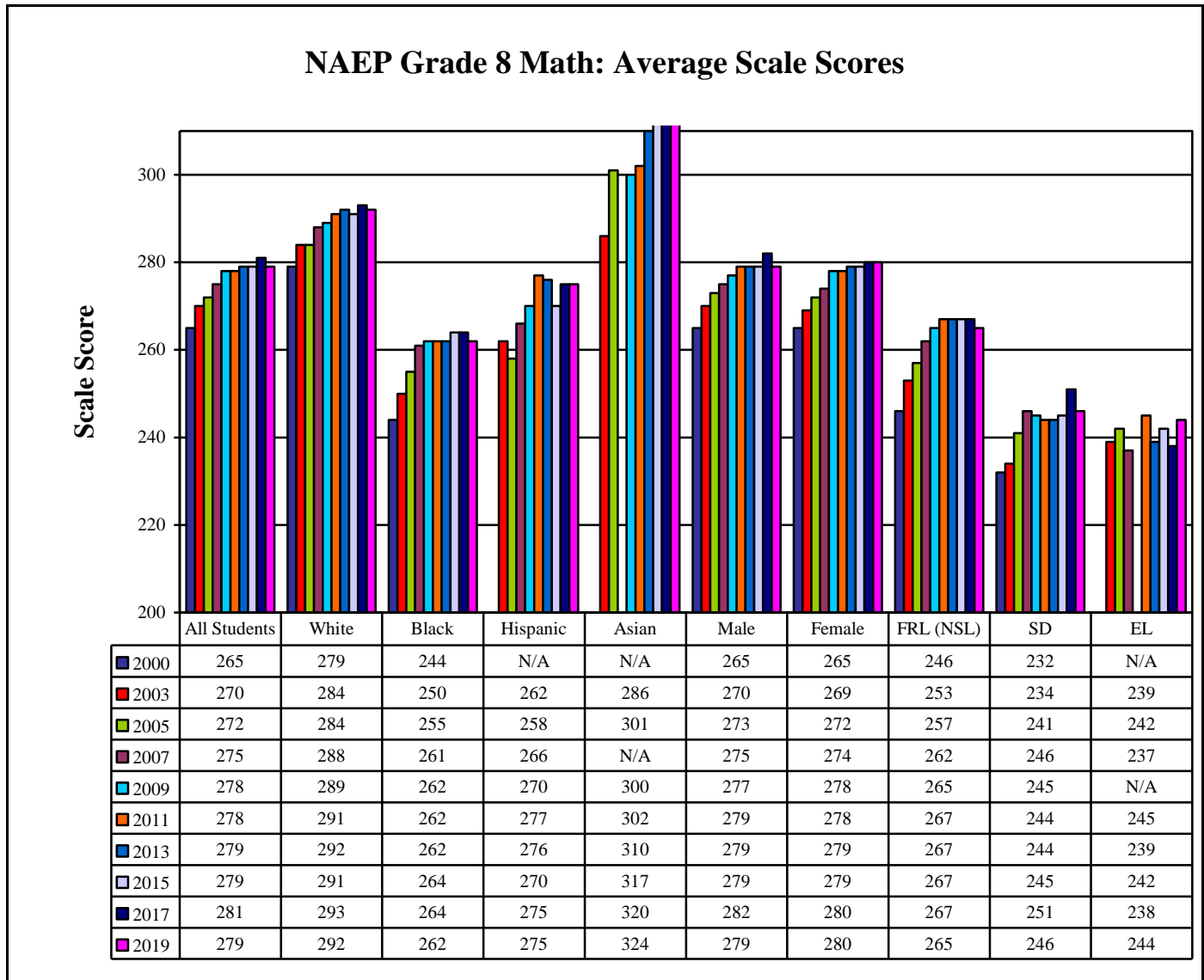


Table 5: Achievement Level – Percent At or Above Basic on NAEP Grade 8 Mathematics 2000-2019

Percent At or Above Basic											
	2000	2003	2005	2007	2009	2011	2013	2015	2017	2019	Change 2000-2019
All Students	54*	59*	62*	64	67	68	68	67	68	67	+13
White	71*	77	76	80	80	82	81	81	81	80	+9
Black	28*	36*	43*	48	50	51	51	52	51	50	+22
Hispanic	N/A	49*	48*	55	59	69	67	60	64	64	+15**
Asian	N/A	73*	84	N/A	86	88	86	90	93	93	+20**
Male	55*	60*	62	64	65	67	68	67	69	66	+11
Female	54*	59*	62*	64	68	70	68	67	68	68	+14
FRL (NSL)	30*	39*	44*	49	53	58	57	57	56	54	+24
Students with Disabilities	26	24	29	34	28	30	30	29	36	32	+6
English Learner	N/A	25	27	20	N/A	28	22	26	21	27	+2**

*Value is significantly different from the 2019 value.

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

**Due to N/A, change reported for years other than 2000-2019.

Figure 5: Percent At or Above Basic – NAEP Grade 8 Mathematics 2000-2019

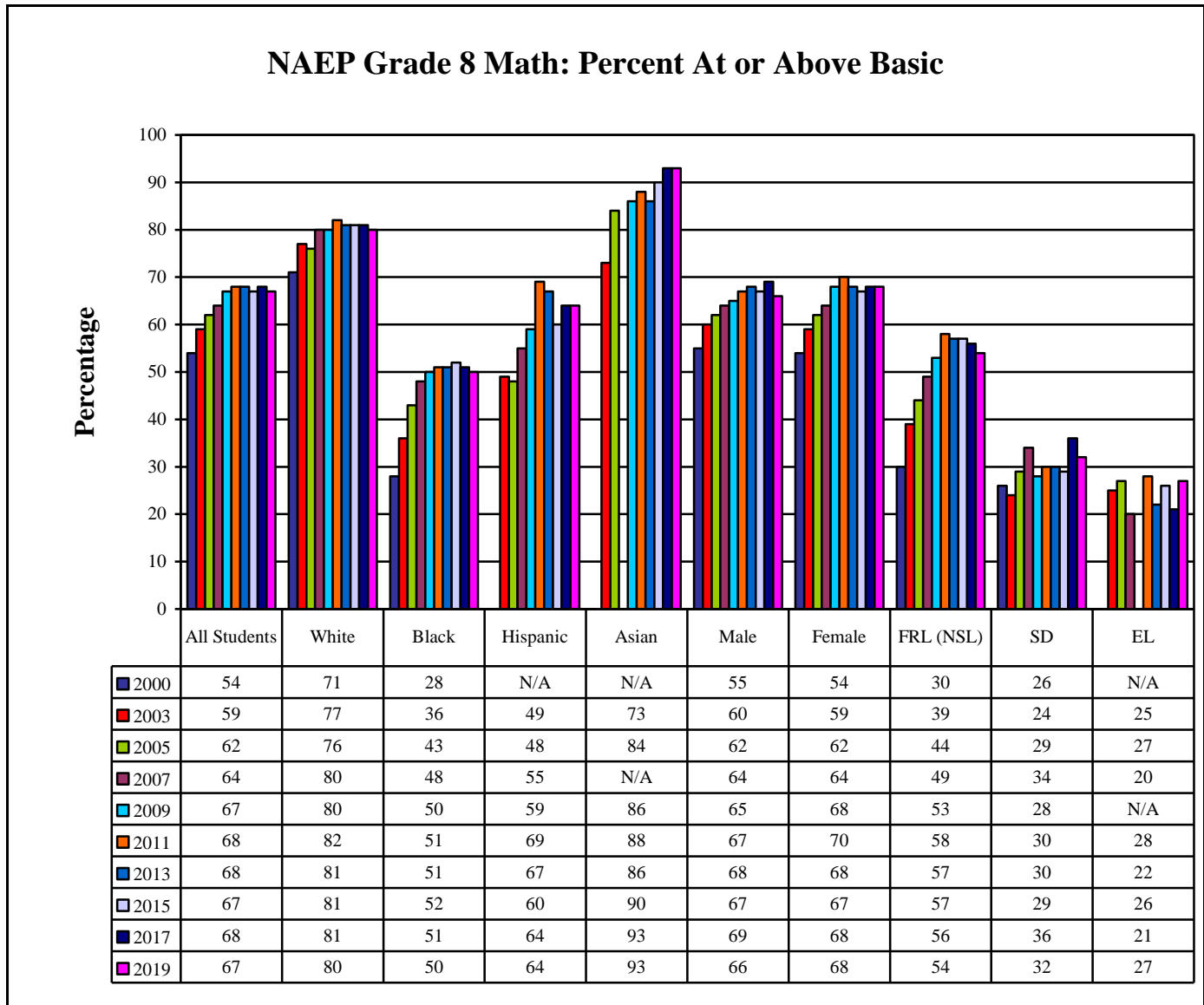


Table 6: Achievement Level – Percent At or Above Proficient on NAEP Grade 8 Mathematics 2000-2019

Percent At or Above Proficient											
	2000	2003	2005	2007	2009	2011	2013	2015	2017	2019	Change 2000-2019
All Students	19*	22*	23*	25*	27	28	29	28	31	31	+12
White	27*	32*	34*	37	39	40	42	41	44	43	+16
Black	4*	7*	8*	11	11	12	12	13	14	14	+10
Hispanic	N/A	14	12	16	18	25	24	19	23	25	+11**
Asian	N/A	40*	52	N/A	49	52	62	68	70	77	+30**
Male	19*	24*	24*	26	27	29	30	29	32	31	+12
Female	18*	20*	23*	23*	27	27	29	28	31	31	+13
FRL (NSL)	5*	8*	9*	12	13	16	17	15	17	17	+12
Students with Disabilities	5	6	6	6	6	4	6	5	9	8	+3
English Learner	N/A	4	10	1	N/A	6	4	4	4	4	0**

*Value is significantly different from the 2019 value.

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

**Due to N/A, change reported for years other than 2000-2019.

Figure 6: Percent At or Above Proficient – NAEP Grade 8 Mathematics 2000-2019

