



Grade 12 Mathematics Results Trend Analysis

NAEP 2009 and 2013

New Hampshire Student Comparisons to the Nation

(All Students and Sub-groups by Gender, Race/Ethnicity, Socio-economic, Disability and Language Status)

Tim D. Eccleston – New Hampshire NAEP Program Administrator

NAEP Grade 12 Mathematics - *All Students*

Average Scale Scores & Percentage of Students Performing at or above Proficient

Jurisdiction	Average Scale Score		At or Above Proficient	
	2009	2013	2009	2013
Massachusetts	163	161	36	34
New Hampshire	160	161	32	32
Connecticut	156	160	29	32
South Dakota	160	159	29	28
New Jersey	156	159	31	33
Iowa	156	156	25	26
Idaho	153	156	23	24
Michigan	—	154	—	25
Illinois	154	154	26	27
National Public	152	152	25	25
Arkansas	146	150	16	18
Florida	148	149	19	19
Tennessee	—	145	—	17
West Virginia	141	145	13	14

NOTE: The percentages have been rounded to nearest whole number. Some apparent differences between estimates may not be statistically significant. Tennessee and Michigan did not participate in Grade 12 NAEP 2009.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2009 and 2013 Mathematics Assessments.

NAEP Grade 12 Mathematics - *Male Students*

Average Scale Scores & Percentage of Students Performing at or above Proficient

Jurisdiction	Average Scale Score		At or Above Proficient	
	2009	2013	2009	2013
Connecticut	157	162	30	34
South Dakota	160	162	30	31
Massachusetts	162	161	36	34
New Hampshire	161	161	35	34
New Jersey	157	159	32	33
Iowa	156	158	28	29
Idaho	153	158	25	28
Michigan	—	156	—	27
Illinois	156	155	29	29
National Public	154	154	27	26
Arkansas	146	151	18	21
Florida	150	149	21	20
Tennessee	—	147	—	19
West Virginia	142	146	15	16

NOTE: The percentages have been rounded to nearest whole number. Some apparent differences between estimates may not be statistically significant. Tennessee and Michigan did not participate in Grade 12 NAEP 2009.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2009 and 2013 Mathematics Assessments.

NAEP Grade 12 Mathematics - *Female Students*

Average Scale Scores & Percentage of Students Performing at or above Proficient

Jurisdiction	Average Scale Score		At or Above Proficient	
	2009	2013	2009	2013
Massachusetts	163	161	35	33
New Hampshire	160	160	30	30
New Jersey	156	159	29	32
Connecticut	156	158	28	31
South Dakota	159	157	27	25
Iowa	156	154	22	23
Illinois	153	153	24	25
Idaho	152	153	21	21
Michigan	—	152	—	23
National Public	151	151	23	23
Florida	146	148	16	19
Arkansas	146	148	13	15
West Virginia	141	143	10	12
Tennessee	—	143	—	14

NOTE: The percentages have been rounded to nearest whole number. Some apparent differences between estimates may not be statistically significant. Tennessee and Michigan did not participate in Grade 12 NAEP 2009.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2009 and 2013 Mathematics Assessments.

NAEP Grade 12 Mathematics - *White Students*

Average Scale Scores & Percentage of Students Performing at or above Proficient

Jurisdiction	Average Scale Score		At or Above Proficient	
	2009	2013	2009	2013
Connecticut	165	168	37	40
Massachusetts	167	166	40	38
New Jersey	165	166	39	39
Illinois	162	165	32	37
South Dakota	162	163	31	31
New Hampshire	161	161	32	32
National Public	160	161	31	32
Idaho	155	160	24	28
Michigan	—	159	—	30
Iowa	158	159	26	28
Florida	156	157	24	26
Arkansas	154	156	20	23
Tennessee	—	152	—	21
West Virginia	142	145	13	14

NOTE: The percentages have been rounded to nearest whole number. Some apparent differences between estimates may not be statistically significant. Tennessee and Michigan did not participate in Grade 12 NAEP 2009.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2009 and 2013 Mathematics Assessments.

NAEP Grade 12 Mathematics - *Non-White Students*

Average Scale Scores & Percentage of Students Performing at or above Proficient

Jurisdiction	Average Scale Score		At or Above Proficient	
	2009	2013	2009	2013
New Hampshire	158	156	32	32
New Jersey	145	151	19	23
Massachusetts	147	150	21	23
Connecticut	137	145	11	17
National Public	141	142	15	15
Florida	140	141	13	13
South Dakota	142	141	13	11
Idaho	136	140	13	11
Illinois	141	140	15	14
Iowa	143	140	16	15
West Virginia	132	138	8	13
Michigan	—	137	—	12
Arkansas	127	136	5	7
Tennessee	—	129	—	7

NOTE: The percentages have been rounded to nearest whole number. Some apparent differences between estimates may not be statistically significant. Tennessee and Michigan did not participate in Grade 12 NAEP 2009.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2009 and 2013 Mathematics Assessments.

NAEP Grade 12 Mathematics - *Black Students*

Average Scale Scores & Percentage of Students Performing at or above Proficient

Jurisdiction	Average Scale Score		At or Above Proficient	
	2009	2013	2009	2013
New Jersey	134	139	9	10
Massachusetts	135	138	9	10
Connecticut	131	136	5	6
Florida	133	134	7	8
West Virginia	121	133	1	7
National Public	131	131	6	7
Arkansas	121	130	2	3
Michigan	—	129	—	5
Iowa	138	125	10	5
Tennessee	—	125	—	5
Illinois	130	123	6	5
Idaho	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
South Dakota	‡	‡	‡	‡

NOTE: The percentages have been rounded to nearest whole number. Some apparent differences between estimates may not be statistically significant. Tennessee and Michigan did not participate in Grade 12 NAEP 2009.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2009 and 2013 Mathematics Assessments.

NAEP Grade 12 Mathematics - *Hispanic Students*

Average Scale Scores & Percentage of Students Performing at or above Proficient

Jurisdiction	Average Scale Score		At or Above Proficient	
	2009	2013	2009	2013
Illinois	141	143	13	12
New Jersey	139	143	10	14
Arkansas	136	143	7	10
Massachusetts	137	143	12	15
Florida	142	142	13	13
Connecticut	132	141	6	12
National Public	137	140	10	11
Iowa	134	139	6	10
Idaho	131	136	9	7
Michigan	—	135	—	9
Tennessee	—	130	—	8
New Hampshire	‡	‡	‡	‡
South Dakota	‡	‡	‡	‡
West Virginia	‡	‡	‡	‡

NOTE: The percentages have been rounded to nearest whole number. Some apparent differences between estimates may not be statistically significant. Tennessee and Michigan did not participate in Grade 12 NAEP 2009.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2009 and 2013 Mathematics Assessments.

NAEP Grade 12 Mathematics - *Asian/Pacific Islander Students*

Average Scale Scores & Percentage of Students Performing at or above Proficient

Jurisdiction	Average Scale Score		At or Above Proficient	
	2009	2013	2009	2013
New Jersey	179	182	55	60
Illinois	171	180	46	57
Connecticut	173	176	50	58
Massachusetts	176	176	50	50
New Hampshire	‡	173	‡	55
National Public	175	172	52	46
Florida	165	170	39	47
Michigan	—	166	—	42
Tennessee	—	159	—	32
Arkansas	‡	‡	‡	‡
Idaho	‡	‡	‡	‡
Iowa	‡	‡	‡	‡
South Dakota	‡	‡	‡	‡
West Virginia	‡	‡	‡	‡

NOTE: The percentages have been rounded to nearest whole number. Some apparent differences between estimates may not be statistically significant. Tennessee and Michigan did not participate in Grade 12 NAEP 2009.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2009 and 2013 Mathematics Assessments.

NAEP Grade 12 Mathematics - *Students with a Disability*

Average Scale Scores & Percentage of Students Performing at or above Proficient

Jurisdiction	Average Scale Score		At or Above Proficient	
	2009	2013	2009	2013
Massachusetts	130	127	8	4
Connecticut	113	126	4	7
New Hampshire	128	124	8	4
South Dakota	121	123	2	2
Florida	121	122	2	5
New Jersey	117	122	5	4
Michigan	—	119	—	2
National Public	115	115	4	4
Idaho	114	115	2	1
West Virginia	102	113	1	1
Illinois	108	113	1	2
Arkansas	107	112	1	2
Iowa	118	110	2	#
Tennessee	—	103	—	#

NOTE: The percentages have been rounded to nearest whole number. Some apparent differences between estimates may not be statistically significant. Tennessee and Michigan did not participate in Grade 12 NAEP 2009.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2009 and 2013 Mathematics Assessments.

NAEP Grade 12 Mathematics - *Students without a Disability*

Average Scale Scores & Percentage of Students Performing at or above Proficient

Jurisdiction	Average Scale Score		At or Above Proficient	
	2009	2013	2009	2013
New Hampshire	164	165	35	36
Massachusetts	166	165	38	37
New Jersey	161	165	33	37
Connecticut	159	163	31	34
South Dakota	162	162	30	30
Iowa	160	161	27	28
Illinois	158	158	28	30
Idaho	155	158	24	26
Michigan	—	157	—	27
National Public	155	156	26	26
Arkansas	150	153	17	19
Florida	150	151	20	21
Tennessee	—	148	—	18
West Virginia	147	148	14	15

NOTE: The percentages have been rounded to nearest whole number. Some apparent differences between estimates may not be statistically significant. Tennessee and Michigan did not participate in Grade 12 NAEP 2009.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2009 and 2013 Mathematics Assessments.

NAEP Grade 12 Mathematics - *Eligible for Free/Reduced Lunch*

Average Scale Scores & Percentage of Students Performing at or above Proficient

Jurisdiction	Average Scale Score		At or Above Proficient	
	2009	2013	2009	2013
New Hampshire	149	146	18	16
Idaho	143	145	16	13
South Dakota	148	145	16	13
Massachusetts	144	143	17	13
New Jersey	136	143	9	15
Arkansas	133	141	7	9
Florida	139	139	11	10
National Public	137	139	10	11
Iowa	141	139	10	11
Connecticut	132	138	8	9
Michigan	—	138	—	9
Illinois	136	138	9	11
West Virginia	130	137	6	8
Tennessee	—	132	—	6

NOTE: The percentages have been rounded to nearest whole number. Some apparent differences between estimates may not be statistically significant. Tennessee and Michigan did not participate in Grade 12 NAEP 2009.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2009 and 2013 Mathematics Assessments.

NAEP Grade 12 Mathematics - *Not Eligible for Free/Reduced Lunch*

Average Scale Scores & Percentage of Students Performing at or above Proficient

Jurisdiction	Average Scale Score		At or Above Proficient	
	2009	2013	2009	2013
Massachusetts	168	170	41	43
Connecticut	163	168	35	40
New Jersey	161	165	36	39
Illinois	161	164	32	37
South Dakota	162	164	31	33
New Hampshire	162	163	34	35
Michigan	—	163	—	34
Iowa	160	162	29	31
National Public	159	161	31	33
Idaho	156	161	25	31
Arkansas	155	158	22	26
Florida	153	156	23	27
Tennessee	—	156	—	25
West Virginia	148	151	17	19

NOTE: The percentages have been rounded to nearest whole number. Some apparent differences between estimates may not be statistically significant. Tennessee and Michigan did not participate in Grade 12 NAEP 2009.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2009 and 2013 Mathematics Assessments.

NAEP Grade 12 Mathematics - *English Language Learners (ELL)*

Average Scale Scores & Percentage of Students Performing at or above Proficient

Jurisdiction	Average Scale Score		At or Above Proficient	
	2009	2013	2009	2013
Arkansas	123	132	4	6
Florida	111	112	3	2
National Public	116	109	4	3
Connecticut	‡	‡	‡	‡
Idaho	‡	‡	‡	‡
Illinois	‡	‡	‡	‡
Iowa	‡	‡	‡	‡
Massachusetts	121	‡	8	‡
Michigan	—	‡	—	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
South Dakota	‡	‡	‡	‡
Tennessee	—	‡	—	‡
West Virginia	‡	‡	‡	‡

NOTE: The percentages have been rounded to nearest whole number. Some apparent differences between estimates may not be statistically significant. Tennessee and Michigan did not participate in Grade 12 NAEP 2009.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2009 and 2013 Mathematics Assessments.

NAEP Grade 12 Mathematics - *Non-ELL Students*

Average Scale Scores & Percentage of Students Performing at or above Proficient

Jurisdiction	Average Scale Score		At or Above Proficient	
	2009	2013	2009	2013
Massachusetts	163	162	36	34
Connecticut	157	161	30	33
New Hampshire	161	161	32	33
South Dakota	160	160	29	29
New Jersey	157	160	31	33
Idaho	153	157	23	25
Iowa	157	157	25	26
Michigan	—	155	—	26
Illinois	155	155	26	28
National Public	153	154	25	25
Arkansas	146	150	16	18
Florida	150	150	19	20
Tennessee	—	145	—	17
West Virginia	141	145	13	14

NOTE: The percentages have been rounded to nearest whole number. Some apparent differences between estimates may not be statistically significant. Tennessee and Michigan did not participate in Grade 12 NAEP 2009.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2009 and 2013 Mathematics Assessments.

NAEP Grade 12 Mathematics - *No Disability & Not Eligible for Lunch*

Average Scale Scores & Percentage of Students Performing at or above Proficient

Jurisdiction	Average Scale Score		At or Above Proficient	
	2009	2013	2009	2013
Massachusetts	170	173	43	47
New Jersey	166	170	39	43
Connecticut	165	170	36	42
New Hampshire	165	168	37	39
Illinois	164	167	34	40
South Dakota	164	166	33	34
Michigan	—	165	—	36
Iowa	163	165	30	33
National Public	162	164	33	35
Idaho	158	163	26	32
Arkansas	158	160	24	28
Florida	155	158	24	28
Tennessee	—	158	—	26
West Virginia	151	153	18	20

NOTE: The percentages have been rounded to nearest whole number. Some apparent differences between estimates may not be statistically significant. Tennessee and Michigan did not participate in Grade 12 NAEP 2009.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2009 and 2013 Mathematics Assessments.

NAEP Grade 12 Mathematics - Parental Education - College

Average Scale Scores & Percentage of Students Performing at or above Proficient

Jurisdiction	Average Scale Score		At or Above Proficient	
	2009	2013	2009	2013
Connecticut	169	171	43	46
Massachusetts	173	171	48	45
New Jersey	167	170	43	45
New Hampshire	169	169	43	43
Illinois	164	167	37	42
South Dakota	165	166	35	36
Idaho	160	165	30	35
Iowa	163	164	33	34
National Public	163	164	37	37
Michigan	—	163	—	35
Florida	156	158	28	29
Arkansas	154	157	23	26
Tennessee	—	155	—	26
West Virginia	153	154	22	23

NOTE: The percentages have been rounded to nearest whole number. Some apparent differences between estimates may not be statistically significant. Tennessee and Michigan did not participate in Grade 12 NAEP 2009.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2009 and 2013 Mathematics Assessments.

NAEP Grade 12 Mathematics - Parental Education - Some College

Average Scale Scores & Percentage of Students Performing at or above Proficient

Jurisdiction	Average Scale Score		At or Above Proficient	
	2009	2013	2009	2013
Massachusetts	157	158	24	27
South Dakota	157	158	24	23
Idaho	154	156	22	20
New Hampshire	152	154	20	21
Iowa	154	154	20	20
Michigan	—	153	—	20
New Jersey	150	153	20	21
Connecticut	148	152	17	19
National Public	150	151	19	19
Illinois	152	151	21	20
Arkansas	147	150	14	14
Florida	148	146	14	13
West Virginia	141	145	10	11
Tennessee	—	145	—	12

NOTE: The percentages have been rounded to nearest whole number. Some apparent differences between estimates may not be statistically significant. Tennessee and Michigan did not participate in Grade 12 NAEP 2009.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2009 and 2013 Mathematics Assessments.

NAEP Grade 12 Mathematics - Parental Education - High School

Average Scale Scores & Percentage of Students Performing at or above Proficient

Jurisdiction	Average Scale Score		At or Above Proficient	
	2009	2013	2009	2013
New Hampshire	150	151	19	20
Massachusetts	149	148	18	19
South Dakota	153	148	19	14
New Jersey	142	145	15	18
Connecticut	141	145	13	14
Idaho	142	143	12	13
Iowa	144	143	13	13
Arkansas	138	142	10	10
Florida	141	141	13	12
National Public	141	139	14	12
Michigan	—	139	—	11
Illinois	144	138	15	11
Tennessee	—	135	—	9
West Virginia	134	135	6	5

NOTE: The percentages have been rounded to nearest whole number. Some apparent differences between estimates may not be statistically significant. Tennessee and Michigan did not participate in Grade 12 NAEP 2009.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2009 and 2013 Mathematics Assessments.

NAEP Grade 12 Mathematics - Parental Education - Some High School

Average Scale Scores & Percentage of Students Performing at or above Proficient

Jurisdiction	Average Scale Score		At or Above Proficient	
	2009	2013	2009	2013
New Jersey	135	143	7	13
Arkansas	137	141	7	9
Illinois	134	140	7	9
Massachusetts	138	137	14	10
National Public	134	136	8	9
Florida	136	136	7	7
Idaho	130	135	7	4
New Hampshire	134	135	10	8
South Dakota	134	134	6	8
Connecticut	133	134	6	7
Iowa	135	132	5	5
Michigan	—	131	—	3
Tennessee	—	129	—	5
West Virginia	123	126	5	4

NOTE: The percentages have been rounded to nearest whole number. Some apparent differences between estimates may not be statistically significant. Tennessee and Michigan did not participate in Grade 12 NAEP 2009.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2009 and 2013 Mathematics Assessments.

NAEP Grade 12 Mathematics - Parental Education - Unknown

Average Scale Scores & Percentage of Students Performing at or above Proficient

Jurisdiction	Average Scale Score		At or Above Proficient	
	2009	2013	2009	2013
New Jersey	123	139	2	8
South Dakota	‡	136	‡	11
Massachusetts	139	134	10	10
Arkansas	121	130	4	8
Connecticut	131	129	8	9
Illinois	133	128	7	6
New Hampshire	‡	128	‡	4
National Public	128	127	8	5
Michigan	—	125	—	4
Florida	126	123	7	3
Iowa	‡	122	‡	2
Tennessee	—	111	—	4
Idaho	131	‡	11	‡
West Virginia	‡	‡	‡	‡

NOTE: The percentages have been rounded to nearest whole number. Some apparent differences between estimates may not be statistically significant. Tennessee and Michigan did not participate in Grade 12 NAEP 2009.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2009 and 2013 Mathematics Assessments.