

2013 NAEP Grade 12 Academic Preparedness Reading and Mathematics Results

Academic Preparedness

Ongoing research conducted by the National Assessment Governing Board (NAGB) suggests that results from the grade 12 NAEP assessments in mathematics and reading may serve as an indicator of students' academic preparedness for college. Academic preparedness by definition means that the student possesses the skills necessary to qualify for placement into entry-level college classes without remediation. NAEP cannot measure non-cognitive skills associated with college readiness such as motivation, persistence, time management, teamwork, self-efficacy and study habits. NAEP also cannot assess environmental factors such as finances, support systems, and rigor of course of study.

Completed research proposes that students scoring at or above **163** on the NAEP mathematics scale and at or above **302** on the reading scale are likely to possess the knowledge, skills, and abilities that would make them academically prepared for college. The reading preparedness score falls at the cut score for *Proficient*; the mathematics preparedness score approximately falls in the middle of the at or above *Basic* achievement level. Academic preparedness results are available for the nation and for the 13 states, including Florida, that participated in the 2013 NAEP Grade 12 assessment. See pages 2 and 3 to see how Florida's academic preparedness compared to the nation's and to the other 12 states that participated in the grade 12 assessment.

- Florida's White students' preparedness for academic success in both reading and mathematics improved from being below the nation's in 2009 to not significantly different from the nation's in 2013.
- Florida's Black and Hispanic students, students eligible for the National School Lunch Program (NSLP), and students with disabilities (SDs) performed not significantly different from their national counterparts in 2009 and 2013 in mathematics and reading preparedness.

Percentage of Florida students scoring at or above Academic Preparedness Benchmarks

Average Scale Scores: Reading – 302; Mathematics – 163

	Reading	Mathematics
All	36%	33%
White	46%	43%
Black	16%	17%
Hispanic	34%	24%
NSLP	25%	20%
SD	8%	12%
ELL	3%	3%

2009 and 2013 NAEP Grade 12 Reading - Preparedness Rankings – 302 average scale score

Jurisdictions *italicized* and highlighted in green were significantly higher than Florida. Jurisdictions highlighted in blue and denoted by a “*” were significantly lower than Florida. Jurisdictions not highlighted were not significantly different from Florida.

Rank	All				White				Black			
	2009	Percent	2013	Score	2009	Percent	2013	Percent	2009	Percent	2013	Percent
1	<i>MA</i>	46	<i>CT</i>	50	<i>CT</i>	52	<i>CT</i>	58	WV	21	CT	26
2	<i>NH</i>	44	<i>NH</i>	45	<i>MA</i>	50	NJ	51	MA	21	NJ	19
3	<i>CT</i>	43	<i>MA</i>	43	<i>IL</i>	48	IL	50	IA	21	MA	18
4	<i>SD</i>	40	<i>ID</i>	41	<i>NJ</i>	47	MA	50	IL	20	FL	16
5	<i>IL</i>	40	<i>NJ</i>	41	NH	44	ID	46	FL	17	WV	15
6	<i>IA</i>	39	IA	40	SD	42	FL	46	NJ	16	IL	15
7	<i>ID</i>	39	SD	39	ID	42	NH	45	CT	15	IA	15
8	<i>NJ</i>	39	IL	39	IA	40	IA	43	AR	9	AR	12
9	FL	32	MI	37	FL	39	MI	42	SD	‡	MI	12
10	AR	29	FL	36	AR	36	SD	42	NH	‡	TN	12
11	WV	29	AR	33	WV	29	AR	40	ID	‡	SD	‡
12			TN	31*			TN	38*			NH	‡
13			WV	28*			WV	29*			ID	‡
	<i>NP</i>	37	NP	36	<i>NP</i>	45	NP	46	NP	16	NP	15

Rank	Hispanic				National School Lunch Program				Students with Disabilities			
	2009	Percent	2013	Score	2009	Percent	2013	Percent	2009	Percent	2013	Percent
1	IA	27	FL	34	SD	28	NH	32	MA	11	CT	16
2	FL	26	CT	26	ID	27	ID	29	CT	11	NH	14
3	CT	24	IL	24	NH	26	CT	27	NH	10	MA	12
4	IL	24	IA	24	IA	25	SD	26	IL	10	NJ	11
5	MA	21	MA	23	MA	23	FL	25	FL	9	IL	11
6	NJ	20	TN	23	IL	21	IA	24	NJ	9	FL	8
7	AR	19	MI	22	FL	21	MA	24	IA	5	MI	7
8	ID	15	AR	22	CT	20	MI	24	WV	4	ID	6
9	WV	‡	TN	20*	AR	20	IL	23	ID	3	SD	6
10	SD	‡	ID	19*	WV	19	AR	22	AR	3	AR	5
11	NH	‡	WV	‡	NJ	18	WV	22	SD	3	TN	4
12			SD	‡			NJ	21			WV	2
13			NH	‡			TN	19			IA	2
	NP	21	NP	22	NP	21	NP	22	NP	8	NP	7

NP = National Public

‡Reporting threshold not met

2009 and 2013 NAEP Grade 12 Mathematics - Preparedness Ranking – 163 average scale score

Jurisdictions *italicized* and highlighted in green were significantly higher than Florida. Jurisdictions highlighted in blue and denoted by a “*” were significantly lower than Florida. Jurisdictions not highlighted were not significantly different from Florida.

Rank	All				White				Black			
	2009	Percent	2013	Score	2009	Percent	2013	Percent	2009	Percent	2013	Percent
1	<i>MA</i>	51	<i>MA</i>	49	<i>MA</i>	57	<i>CT</i>	56	IA	19	MA	22
2	<i>NH</i>	48	<i>NH</i>	48	<i>NJ</i>	55	<i>NJ</i>	56	MA	18	NJ	22
3	<i>SD</i>	47	<i>NJ</i>	47	<i>CT</i>	53	<i>IL</i>	54	NJ	18	FL	17
4	<i>NJ</i>	44	<i>CT</i>	47	<i>IL</i>	50	<i>MA</i>	54	FL	14	WV	16
5	<i>CT</i>	43	<i>SD</i>	46	<i>SD</i>	50	<i>SD</i>	50	IL	13	CT	15
6	<i>IA</i>	42	<i>IA</i>	43	<i>NH</i>	48	NH	48	CT	13	MI	12
7	<i>IL</i>	41	<i>IL</i>	41	IA	44	IA	46	AR	6*	IA	11
8	<i>ID</i>	38	<i>ID</i>	41	ID	40	ID	46	WV	6*	AR	10
9	FL	32	<i>MI</i>	40	FL	40	MI	46	SD	‡	IL	10
10	AR	30	AR	34	AR	38	FL	43	NH	‡	TN	10
11	WV	25*	FL	33	WV	25*	AR	42	ID	‡	SD	‡
12			TN	29			TN	36			NH	‡
13			WV	26*			WV	26*			ID	‡
	<i>NP</i>	38	<i>NP</i>	38	<i>NP</i>	48	NP	49	NP	13	NP	15

Rank	Hispanic				National School Lunch Program Eligibility				Students with Disabilities			
	2009	Percent	2013	Score	2009	Percent	2013	Percent	2009	Percent	2013	Percent
1	FL	25	MA	27	<i>NH</i>	32	<i>NH</i>	29	<i>MA</i>	22	CT	21
2	IL	24	NJ	26	<i>SD</i>	32	<i>SD</i>	28	<i>NH</i>	20	MA	15
3	MA	21	AR	25	<i>MA</i>	28	NJ	27	<i>CT</i>	19	FL	12
4	NJ	19	FL	24	ID	27	<i>MA</i>	26	NJ	14	NH	12
5	IA	16	IL	23	IA	22	<i>ID</i>	26	FL	7	NJ	12
6	AR	16	CT	22	FL	21	AR	22	ID	6	SD	8
7	CT	15*	IA	19	IL	18	IA	21	IA	6	IL	7
8	ID	15*	MI	17	NJ	18	IL	21	IL	6	MI	7
9	WV	‡	ID	16*	AR	16	FL	20	SD	5	AR	6
10	SD	‡	TN	14	CT	15	MI	20	AR	4	ID	6
11	NH	‡	SD	‡	WV	14*	CT	19	WV	4	IA	3*
12			NH	‡			WV	17			WV	3*
13			WV	‡			TN	14*			TN	2*
	NP	20	NP	23	NP	20	NP	22	NP	10	NP	10

NP = National Public

‡Reporting threshold not met

2013 Grade 12 Highest Level Mathematics Course Rankings – All Students

Jurisdictions *italicized* and highlighted in green were significantly higher than Florida. Jurisdictions highlighted in blue and denoted by a "*" were significantly lower than Florida. Jurisdictions not highlighted were not significantly different from Florida.

Rank	Calculus		Pre-Calculus		Trigonometry of Algebra II		Geometry		Algebra 1 or less	
	State	Percentage	State	Percentage	State	Percentage	State	Percentage	State	Percentage
1	<i>MA</i>	26	<i>MA</i>	30	<i>TN</i>	64	<i>ID</i>	16	<i>IA</i>	10
2	<i>CT</i>	24	<i>SD</i>	30	WV	63	<i>WV</i>	12	<i>NH</i>	5
3	<i>NJ</i>	24	<i>CT</i>	29	FL	59	NH	10	<i>SD</i>	3
4	<i>IL</i>	20	<i>NJ</i>	25	AR	57	IA	10	<i>ID</i>	3
5	<i>NH</i>	19	AR	24	MI	53*	SD	9	NJ	3
6	<i>MI</i>	18	<i>IL</i>	24	IL	46*	FL	8	IL	2
7	<i>SD</i>	16	<i>MI</i>	23	NH	44*	IL	7	AR	2
8	<i>IA</i>	16	NH	22	ID	44*	AR	6*	FL	2
9	<i>ID</i>	15	IA	22	SD	43*	NJ	6*	MA	1
10	TN	13	ID	22	IA	42*	CT	6*	WV	1
11	FL	12	TN	19	NJ	42*	MA	5*	CT	1
12	AR	11	FL	19	CT	39*	MI	4*	MI	1
13	WV	10	WV	14*	MA	38*	TN	4*	TN	1*
	<i>NP</i>	17	<i>NP</i>	24	NP	46*	NP	9	<i>NP</i>	4

2013 Grade 12 Highest Level Mathematics Course Rankings – White Students

Rank	Calculus		Pre-Calculus		Trigonometry of Algebra II		Geometry		Algebra 1 or less	
	State	Percentage	State	Percentage	State	Percentage	State	Percentage	State	Percentage
1	<i>CT</i>	28	<i>MA</i>	31	<i>TN</i>	65	<i>ID</i>	15	<i>IA</i>	10
2	<i>MA</i>	27	<i>SD</i>	31	<i>WV</i>	63	<i>WV</i>	12	<i>NH</i>	5
3	<i>NJ</i>	26	<i>CT</i>	31	FL	56	<i>NH</i>	10	ID	3
4	<i>IL</i>	24	<i>IL</i>	28	AR	54	IA	10	NJ	3
5	<i>MI</i>	20	<i>NJ</i>	27	MI	52	FL	8	SD	2
6	NH	19	AR	27	NH	45*	SD	7	IL	2
7	SD	17	ID	23	ID	43*	IL	7	AR	2
8	ID	17	MI	23	IA	43*	AR	6	FL	1
9	IA	16	NH	22	SD	42*	NJ	6	CT	1
10	FL	14	IA	22	IL	39*	MI	5*	WV	1
11	TN	13	FL	20	NJ	39*	CT	4*	MA	1
12	AR	11	TN	18	MA	37*	MA	4*	MI	1
13	WV	10*	WV	14*	CT	36*	TN	4*	TN	1
	<i>NP</i>	19	<i>NP</i>	24	NP	45*	NP	8	<i>NP</i>	4

NP = National Public

2013 Grade 12 Highest Level Mathematics Course Rankings – Black Students

Jurisdictions *italicized* and highlighted in green were significantly higher than Florida. Jurisdictions highlighted in blue and denoted by a “*” were significantly lower than Florida. Jurisdiction highlighted in pink and denoted by a “^” had a sample too small to rank. Jurisdictions not highlighted were not significantly different from Florida.

Rank	Calculus		Pre-Calculus		Trigonometry of Algebra II		Geometry		Algebra 1 or less	
	State	Percentage	State	Percentage	State	Percentage	State	Percentage	State	Percentage
1	<i>MA</i>	18	<i>MA</i>	30	TN	65	IA	20	<i>IA</i>	23
2	NJ	15	CT	26	WV	64	WV	14	MA	3
3	CT	10	MI	25	AR	64	FL	11	IL	3
4	AR	9	TN	21	FL	63	IL	10	NJ	2
5	TN	9	AR	20	IL	62	CT	10	FL	2
6	FL	8	NJ	18	MI	62	MA	7	AR	2
7	MI	7	IA	18	NJ	58	NJ	7	MI	2
8	IL	7	IL	18	CT	53	AR	5*	WV	2^
9	WV	5	FL	16	MA	41*	MI	5*	CT	1
10	IA	5	WV	15	IA	34*	TN	4*	TN	1
11	ID	‡	ID	‡	ID	‡	ID	‡	ID	‡
12	NH	‡	NH	‡	NH	‡	NH	‡	NH	‡
13	SD	‡	SD	‡	SD	‡	SD	‡	SD	‡
	NP	11	<i>NP</i>	23	NP	53*	NP	9	NP	3

2013 Grade 12 Highest Level Mathematics Course Rankings – Hispanic Students

Rank	Calculus		Pre-Calculus		Trigonometry of Algebra II		Geometry		Algebra 1 or less	
	State	Percentage	State	Percentage	State	Percentage	State	Percentage	State	Percentage
1	IL	15	MA	27	FL	64	<i>ID</i>	20	<i>IA</i>	14
2	MA	15	CT	25	MI	64	CT	10	ID	5
3	CT	13	TN	25	AR	64	MA	10	NJ	3
4	NJ	12	NJ	23	IL	57	IA	10	MI	3
5	TN	12	IL	20	TN	57	FL	8	MA	2
6	AR	11	IA	20	NJ	53	NJ	8	FL	2
7	MI	11	MI	20	IL	52*	IL	6	TN	2
8	IA	10	AR	18	CT	51	AR	6	IL	1
9	FL	9	FL	17	MA	47*	TN	4	CT	1
10	ID	8	ID	15	IA	46	MI	3	AR	‡
11	WV	‡	WV	‡	WV	‡	WV	‡	WV	‡
12	SD	‡	SD	‡	SD	‡	SD	‡	SD	‡
13	NH	‡	NH	‡	NH	‡	NH	‡	NH	‡
	NP	11	<i>NP</i>	24	NP	49*	<i>NP</i>	12	<i>NP</i>	4

NP = National Public

‡Reporting standards not met.