

Rhode Island NECAP Science Results for Students in Grades 4, 8, and 11

May 2010 Test Administration

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Office of Instruction, Assessment, and Curriculum
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EXECUTIVE SUMMARY

Results of the New England Common Assessment Program (NECAP) Science assessment, administered last May to students in grades 4, 8, and 11 showed that statewide, roughly 29 percent of Rhode Island students were proficient in science (up 3.6 percent from the previous administration in May 2009). Additionally, all grades across the state this year had a higher percentage of students who scored in the *proficient* category and, with the exception of elementary school students, had a lower percentage of students who scored in the *substantially below proficient* category.

In Grade 4 approximately 44 percent of students were *proficient* or above, representing the second largest gain (up nearly 4%) of the three tested grades. In Grade 8, nearly 23 percent of students were at or above *proficient*, representing the largest gain (up 5%) of the three grades tested compared to results from last year’s test administration. Grade 11 had the smallest gain (up only 1%), with roughly 21 percent of students across the state scoring at or above *proficient*.

Table 1. Statewide results by grade level.

Grade	% SBP 2008	% PP 2008	% P 2008	% PwD 2008	% P + PwD 2008	CI	% SBP 2009	% PP 2009	% P 2009	% PwD 2009	% P + PwD 2009	CI	% SBP 2010	% PP 2010	% P 2010	% PwD 2010	% P + PwD 2010	CI	Difference between 2009 and 2010 % P or above
ALL	33.1	43.1	23.1	0.8	23.8	0.2	31.4	43.4	24.7	0.5	25.2	0.2	28	43.3	27.9	0.9	28.8	0.3	3.6
4 th	21.8	41.8	35.2	1.2	36.4	0.5	19.9	39.9	39.9	0.3	40.3	0.5	20	35.9	42.8	1.3	44.1	0.5	3.8
8 th	38	43.3	18.3	0.4	18.7	0.4	37.6	44.9	17.1	0.4	17.6	0.4	31.2	46.2	22.2	0.4	22.6	0.4	5.0
11 th	39.3	44.3	15.7	0.7	16.4	0.4	35.5	45	18.8	0.7	19.4	0.4	32.3	47.2	19.5	1.0	20.5	0.4	1.1

Key

SBP = Substantially Below Proficient

PP = Partially Proficient

P = Proficient

PwD = Proficient with Distinction

CI = Confidence Interval (see Appendix)

■ = Statistically significant *increase* in percent of students proficient or above from 2009 to 2010 NECAP science results

Overall, while there were some notable increases in the percentage of students who scored at or above proficient on the NECAP Science assessment in various student subgroups and at some Rhode Island schools and districts, there is still much work to be done across the state in order to increase student achievement in the area of science.

QUESTION:

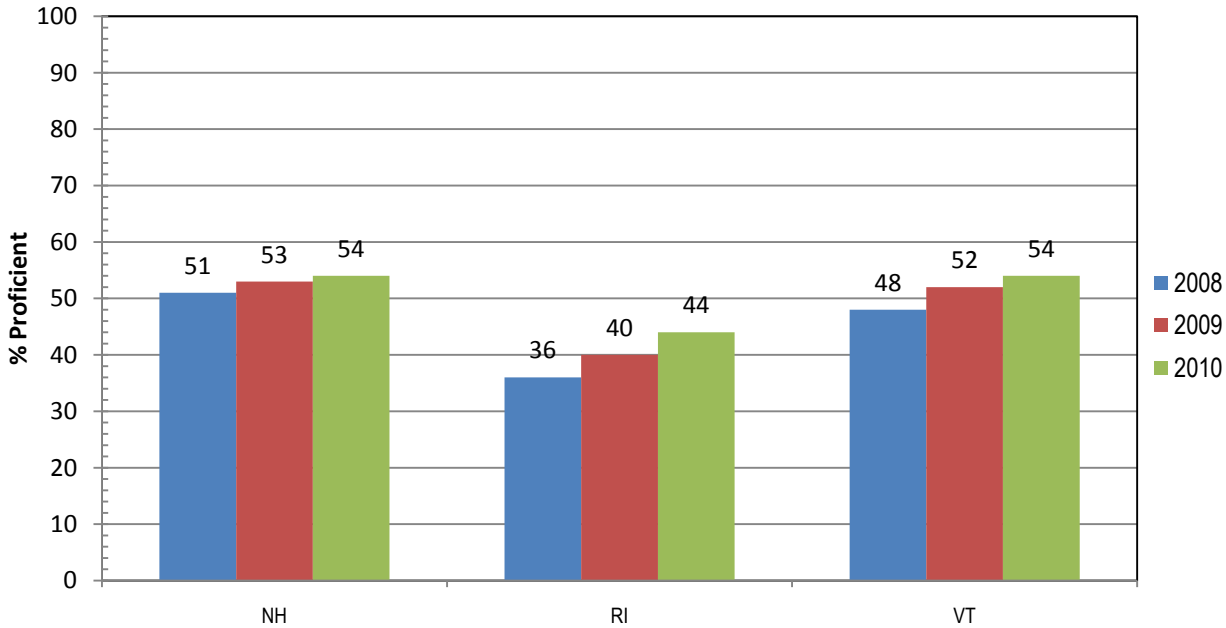
How are Grade 4 students in Rhode Island performing on the NECAP science compared to students in New Hampshire and Vermont?

SUPPORTING DATA:

Table 3. NECAP Science Assessment percent of Grade 4 students at or above proficient across states

Year	NH	RI	VT
2008	51	36	48
2009	53	40	52
2010	54	44	54

Figure 1. Grade 4 science proficiency: NH vs. RI vs. VT



ANALYSIS:

- In 2010, Rhode Island increased achievement in Grade 4 science by 4% compared to 1% and 2% for New Hampshire and Vermont, respectively.
- During the three years that NECAP Science has been administered in the three states, the percent of Grade 4 students scoring proficient or above has increased the most in Rhode Island, with 8% compared to 3% and 6% increases for New Hampshire and Vermont, respectively.
- While the gap is narrowing, Rhode Island Grade 4 students continue to lag far behind those of the other two NECAP states in science proficiency.

QUESTION:

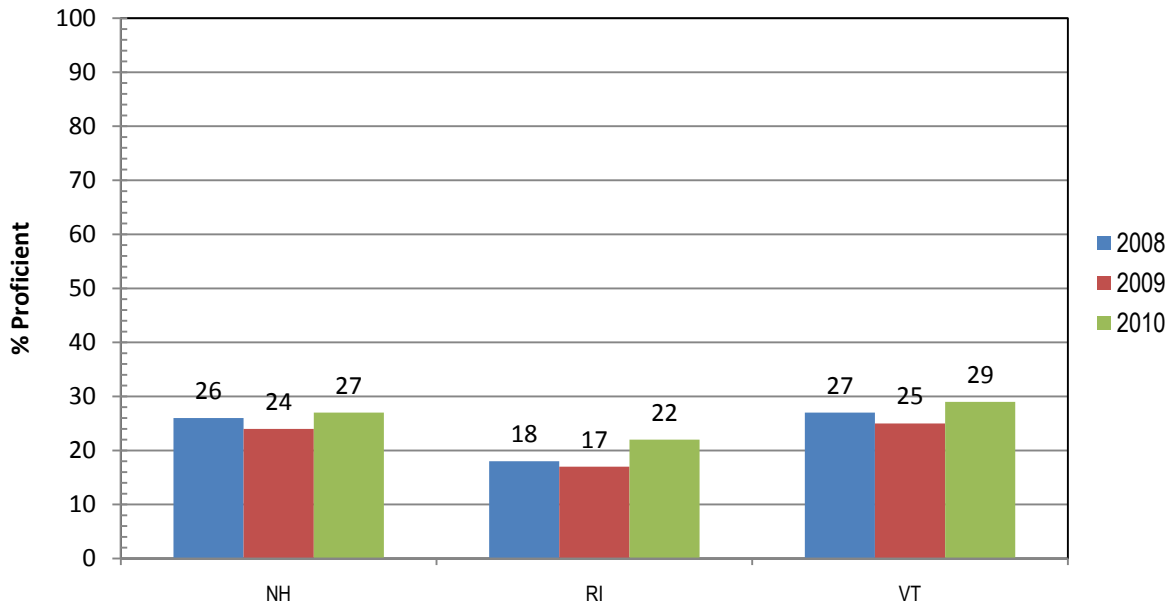
How are Grade 8 students in Rhode Island performing on the NECAP science compared to students in New Hampshire and Vermont?

SUPPORTING DATA:

Table 4. NECAP Science Assessment percent of Grade 8 students at or above proficient across states

Year	NH	RI	VT
2008	26	18	27
2009	24	17	25
2010	27	22	29

Figure 2. Grade 8 science proficiency: NH vs. RI vs. VT



ANALYSIS:

- In 2010, while all three NECAP states experienced an increase in Grade 8 science achievement, the percent of Rhode Island Grade 8 students scoring proficient or higher increased the most (5% increase vs. 3% and 4% for New Hampshire and Vermont, respectively).
- Rhode Island Grade 8 students continue to lag behind those of the other two NECAP states in science proficiency.

QUESTION:

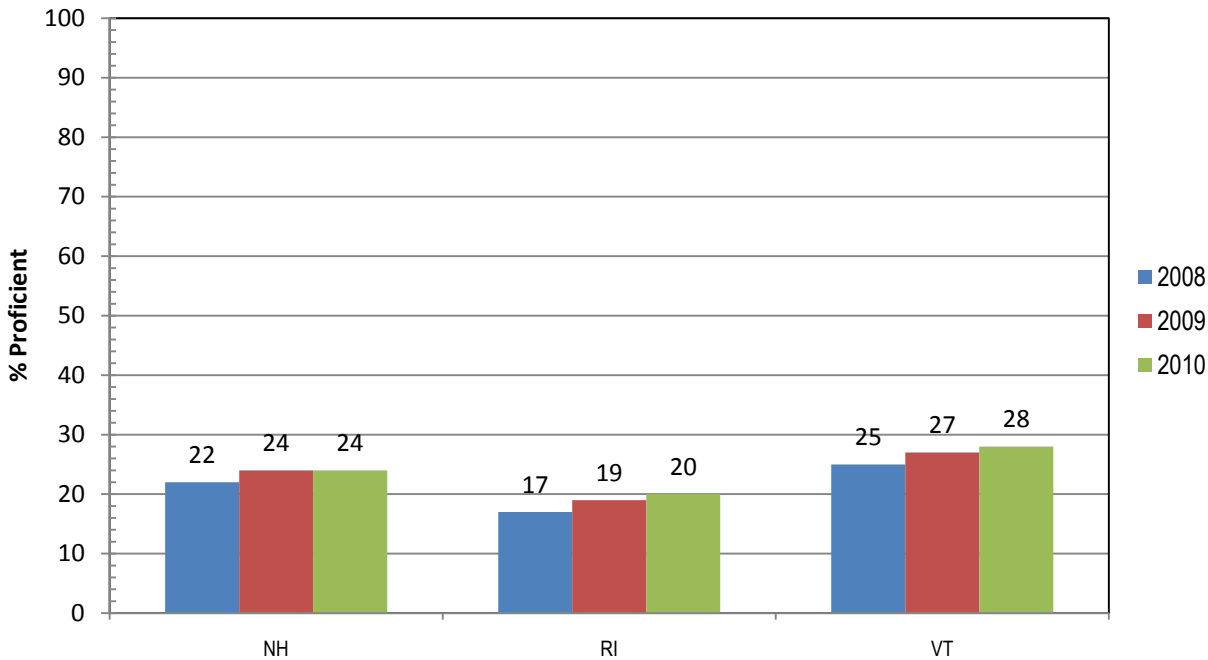
How are Grade 11 students in Rhode Island performing on the NECAP science compared to students in New Hampshire and Vermont?

SUPPORTING DATA:

Table 5. NECAP Science Assessment percent of Grade 11 students at or above proficient across states

Year	NH	RI	VT
2008	22	17	25
2009	24	19	27
2010	24	20	28

Figure 3. Grade 11 science proficiency: NH vs. RI vs. VT



ANALYSIS:

- In 2010, Vermont and Rhode Island had slight increases (+1%) in Grade 11 science achievement while New Hampshire held constant.
- Rhode Island Grade 11 students continue to lag behind those of the other two NECAP states in science proficiency.

2010 RI NECAP Science Results for Students in Grades 4, 8, and 11

QUESTION:

How did districts and schools in RI perform on the NECAP science assessment compared to each other?

SUPPORTING DATA *(presented by grade)*:

Table 6. Percent of Students At/Above Proficient by District: Grade 4 only *(table sorted based on 2010 results)*

District	N tested 2008	% prof. 2008	CI	N tested 2009	% prof. 2009	CI	N tested 2010	% prof. 2010	CI	2009 to 2010 Gr. 4 difference in % prof.
Kingston Hill Academy	42	47.6	7.7	34	50.0	8.6	21	90.5	6.4	40.5
The Compass School	17	70.6	11.1	17	52.9	12.1	18	88.9	7.4	35.9
East Greenwich	200	58.0	3.5	146	70.5	3.8	184	76.6	3.1	6.1
Chariho	266	54.1	3.1	273	51.6	3.0	245	73.9	2.8	22.2
Barrington	245	70.2	2.9	236	76.3	2.8	286	73.8	2.6	-2.5
Little Compton	34	50.0	8.6	45	53.3	7.4	34	73.5	7.6	20.2
Jamestown	45	42.2	7.4	56	67.9	6.2	52	71.2	6.3	3.3
South Kingstown	265	52.1	3.1	246	61.8	3.1	250	70.8	2.9	9.0
Scituate	155	52.9	4.0	121	57.0	4.5	126	69.0	4.1	12.0
Portsmouth	195	51.8	3.6	196	60.7	3.5	189	68.3	3.4	7.5
Smithfield	197	58.9	3.5	175	64.0	3.6	165	67.9	3.6	3.9
North Kingstown	322	56.8	2.8	281	62.3	2.9	282	65.6	2.8	3.3
Tiverton	148	49.3	4.1	131	47.3	4.4	146	64.4	4.0	17.1
Coventry	413	46.2	2.5	364	46.7	2.6	400	60.8	2.4	14.0
North Smithfield	141	52.5	4.2	131	59.5	4.3	114	60.5	4.6	1.0
Glocester	130	50.0	4.4	96	46.9	5.1	101	60.4	4.9	13.5
Foster	57	56.1	6.6	35	62.9	8.2	44	59.1	7.4	-3.8
Johnston	280	45.0	3.0	211	44.5	3.4	194	58.8	3.5	14.2
Lincoln	258	51.6	3.1	227	59.0	3.3	216	58.3	3.4	-0.7
Bristol Warren	253	46.6	3.1	218	45.4	3.4	236	52.1	3.3	6.7
Cranston	781	50.3	1.8	722	48.9	1.9	760	50.8	1.8	1.9
Westerly	234	48.3	3.3	218	47.2	3.4	217	48.8	3.4	1.6
Exeter-West Greenwich	136	36.8	4.1	138	53.6	4.2	130	48.5	4.4	-5.2
Narragansett	77	50.6	5.7	86	58.1	5.3	108	48.1	4.8	-10.0
Cumberland	372	40.1	2.5	370	44.9	2.6	309	46.0	2.8	1.1
Middletown	176	38.6	3.7	190	47.9	3.6	169	45.6	3.8	-2.3
North Providence	222	31.5	3.1	190	37.9	3.5	210	44.8	3.4	6.9
Rhode Island Gr. 4	11004	36.4	0.5	9648	40.3	0.5	10059	44.1	0.5	3.8
Warwick	824	43.7	1.7	715	45.7	1.9	721	43.6	1.8	-2.2
Newport	179	34.6	3.6	123	30.9	4.2	175	43.4	3.7	12.5
East Providence	456	35.7	2.2	328	38.7	2.7	411	41.6	2.4	2.9
Paul Cuffee Charter School	47	31.9	6.8	50	32.0	6.6	54	40.7	6.7	8.7
Burrillville	166	39.8	3.8	166	39.8	3.8	192	39.1	3.5	-0.7
Woonsocket	515	20.4	1.8	390	25.4	2.2	381	34.4	2.4	9.0
West Warwick	259	25.5	2.7	231	34.2	3.1	271	32.1	2.8	-2.1
Central Falls	264	15.2	2.2	203	15.3	2.5	222	22.1	2.8	6.8
International Charter	49	10.2	4.3	49	22.4	6.0	47	21.3	6.0	-1.2
Pawtucket	660	17.1	1.5	626	20.6	1.6	630	19.5	1.6	-1.1
Providence	1843	9.4	0.7	1476	12.4	0.9	1641	16.3	0.9	3.9
Learning Community	40	22.5	6.6	57	21.1	5.4	54	13.0	4.6	-8.1
Highlander	17	23.5	10.3	18	16.7	8.8	36	8.3	4.6	-8.3
New Shoreham	10	70.0	14.5	11	72.7	13.4	-	-	-	-
R.I. School for the Deaf	-	-	-	-	-	-	-	-	-	-

Key

- CI = Confidence Interval (see Appendix)
- = All information associated with *n* sizes <10 has been redacted as per RIDE policy.
-
 = Statistically significant *decrease* in percent of students proficient or above from 2009 to 2010 NECAP science results
-
 = Statistically significant *increase* in percent of students proficient or above from 2009 to 2010 NECAP science results
- = No statistically significant change from 2009 to 2010 NECAP science results

2010 RI NECAP Science Results for Students in Grades 4, 8, and 11

Figure 4. Difference Between 2009 and 2010 Percent Proficient in Each District: Grade 4

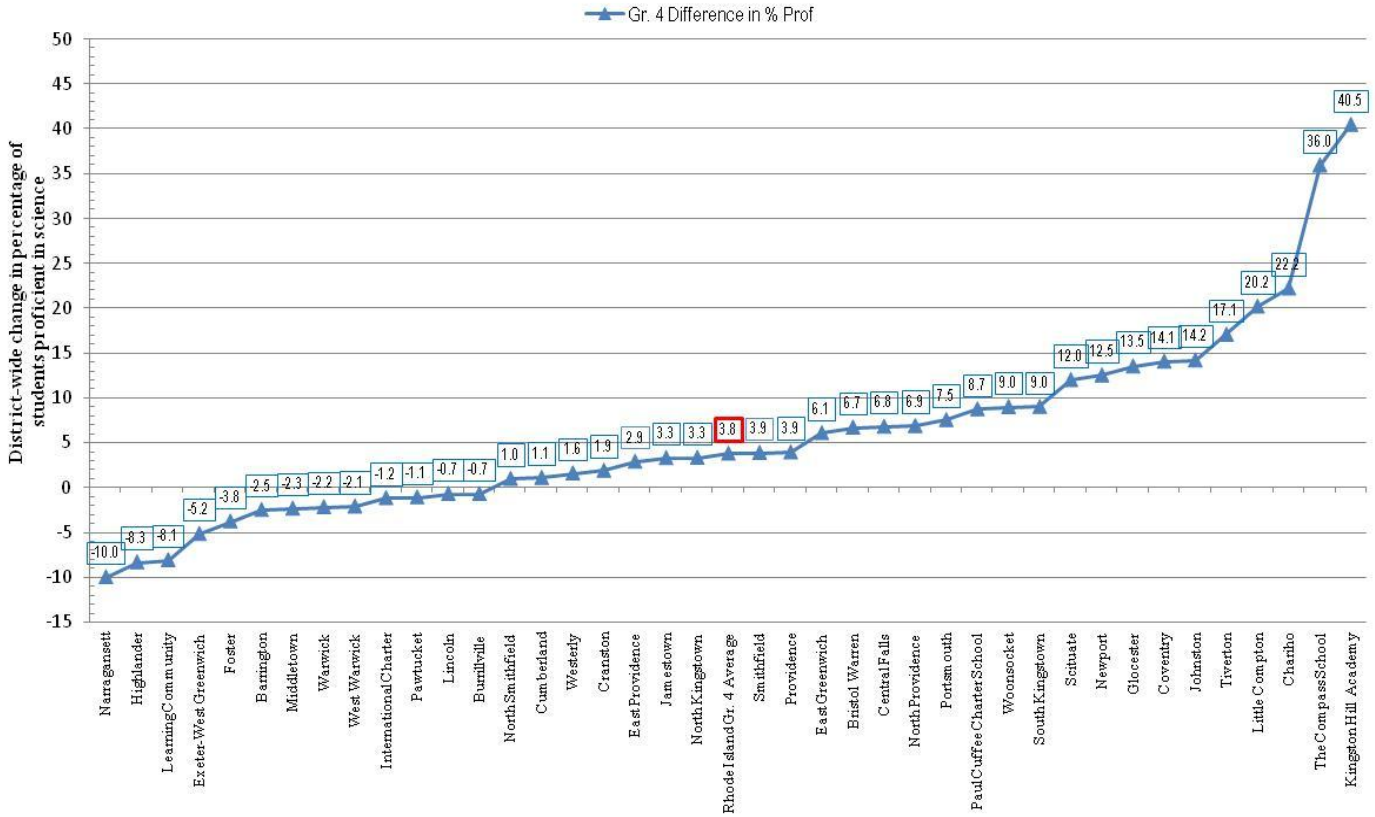


Table 7. Percent of Students At/Above Proficient by School: Grade 4 only (table sorted based on 2010 results)

District	School	N tested 2009	% prof. 2009	CI	N tested 2010	% prof. 2010	CI	2009 to 2010 Gr. 4 difference in % prof.
Smithfield	Raymond C. LaPerche School	41	95.1	3.4	24	95.8	4.1	0.7
Kingston Hill Academy	Kingston Hill Academy	34	50.0	8.6	21	90.5	6.4	40.5
The Compass School	The Compass School	17	52.9	12.1	18	88.9	7.4	36.0
South Kingstown	Matunuck School	55	61.8	6.6	60	85.0	4.6	23.2
East Greenwich	George Hanaford School	72	81.9	4.5	89	79.8	4.3	-2.2
Cranston	Woodridge School	44	59.1	7.4	45	77.8	6.2	18.7
Chariho	Charlestown Elementary School	72	52.8	5.9	74	77.0	4.9	24.3
Lincoln	Saylesville Elementary School	61	63.9	6.2	44	75.0	6.5	11.1
Chariho	Ashaway Elementary School	52	42.3	6.9	36	75.0	7.2	32.7
South Kingstown	Peace Dale Elementary School	81	56.8	5.5	83	74.7	4.8	17.9
Scituate	Hope Elementary School	37	54.1	8.2	47	74.5	6.4	20.4
Barrington	Hampden Meadows School	236	76.3	2.8	286	73.8	2.6	-2.5
East Greenwich	James H. Eldredge El. School	74	59.5	5.7	95	73.7	4.5	14.2
Portsmouth	Elmhurst School	73	67.1	5.5	68	73.5	5.4	6.4
Little Compton	Wilbur and McMahon Schools	45	53.3	7.4	34	73.5	7.6	20.2
Tiverton	Fort Barton School	23	60.9	10.2	45	73.3	6.6	12.5
Chariho	Richmond Elementary School	101	57.4	4.9	93	73.1	4.6	15.7
Cranston	Edward S. Rhodes School	35	57.1	8.4	35	71.4	7.6	14.3
Jamestown	Jamestown School-Melrose	56	67.9	6.2	52	71.2	6.3	3.3
Smithfield	Anna M. McCabe School	49	51.0	7.1	54	70.4	6.2	19.4
North Kingstown	Hamilton Elementary School	180	70.6	3.4	174	70.1	3.5	-0.4
Smithfield	William Winsor School	50	64.0	6.8	46	69.6	6.8	5.6
Warwick	Cedar Hill School	65	60.0	6.1	62	69.4	5.9	9.4
Chariho	Hope Valley Elementary School	48	47.9	7.2	42	69.0	7.1	21.1

2010 RI NECAP Science Results for Students in Grades 4, 8, and 11

District	School	N tested 2009	% prof. 2009	CI	N tested 2010	% prof. 2010	CI	2009 to 2010 Gr. 4 difference in % prof.
Cranston	Hope Highlands Elementary	53	64.2	6.6	47	68.1	6.8	3.9
Lincoln	Lincoln Central Elementary	73	72.6	5.2	61	67.2	6.0	-5.4
Scituate	Clayville Elementary School	36	69.4	7.7	39	66.7	7.6	-2.8
Tiverton	Walter E. Ranger School	62	56.5	6.3	51	66.7	6.6	10.2
Coventry	Western Coventry School	64	78.1	5.2	68	66.2	5.7	-12.0
Johnston	Brown Avenue School	43	60.5	7.5	44	65.9	7.2	5.4
Portsmouth	Howard Hathaway School	65	56.9	6.1	75	65.3	5.5	8.4
Portsmouth	Melville Elementary School	58	56.9	6.5	46	65.2	7.0	8.3
Scituate	North Scituate Elementary School	48	50.0	7.2	40	65.0	7.5	15.0
Johnston	Sarah Dyer Barnes School	46	43.5	7.3	20	65.0	10.7	21.5
Coventry	Tiogou School	48	70.8	6.6	76	64.5	5.5	-6.4
Bristol Warren	Rockwell School	39	66.7	7.6	45	64.4	7.1	-2.2
Cranston	Oak Lawn School	50	30.0	6.5	47	63.8	7.0	33.8
North Providence	Greystone School	27	37.0	9.3	33	63.6	8.4	26.6
Cranston	Orchard Farms Elementary School	59	71.2	5.9	60	61.7	6.3	-9.5
South Kingstown	Wakefield Elementary School	51	66.7	6.6	47	61.7	7.1	-5.0
Newport	William J. Underwood School	20	40.0	11.0	44	61.4	7.3	21.4
Glocester	Fogarty Memorial School	40	57.5	7.8	49	61.2	7.0	3.7
Cranston	Stone Hill School	43	65.1	7.3	46	60.9	7.2	-4.3
Warwick	Park School	38	44.7	8.1	28	60.7	9.2	16.0
East Providence	Myron J. Francis Elementary	48	64.6	6.9	76	60.5	5.6	-4.1
North Smithfield	Halliwell Memorial School	131	59.5	4.3	114	60.5	4.6	1.0
Glocester	West Glocester Elementary	56	39.3	6.5	52	59.6	6.8	20.3
North Kingstown	Henseler Quidnessett Elementary	101	47.5	5.0	106	59.4	4.8	11.9
South Kingstown	West Kingston Elementary	59	64.4	6.2	59	59.3	6.4	-5.1
Foster	Captain Isaac Paine Elementary	35	62.9	8.2	44	59.1	7.4	-3.8
Coventry	Blackrock School	73	42.5	5.8	70	58.6	5.9	16.1
Coventry	Washington Oak School	93	38.7	5.1	116	58.6	4.6	19.9
Cumberland	Community School	104	60.6	4.8	87	57.5	5.3	-3.1
Cranston	Stadium School	43	30.2	7.0	40	57.5	7.8	27.3
Johnston	Winsor Hill School	71	40.8	5.8	77	57.1	5.6	16.3
North Providence	James L. McGuire School	32	40.6	8.7	35	57.1	8.4	16.5
Coventry	Hopkins Hill School	46	21.7	6.1	70	57.1	5.9	35.4
East Providence	Alice M. Waddington School	50	44.0	7.0	74	56.8	5.8	12.8
Warwick	Greenwood School	48	58.3	7.1	39	56.4	7.9	-1.9
Bristol Warren	Guiteras School	42	54.8	7.7	49	55.1	7.1	0.3
Cranston	Eden Park School	45	46.7	7.4	40	55.0	7.9	8.3
Woonsocket	Bernon Heights School	51	37.3	6.8	48	54.2	7.2	16.9
Tiverton	Pocasset School	46	28.3	6.6	50	54.0	7.1	25.7
Johnston	Thornton School	51	37.3	6.8	52	53.8	6.9	16.6
Westerly	Springbrook Elementary School	54	35.2	6.5	67	53.7	6.1	18.6
Warwick	Wyman School	45	46.7	7.4	43	53.5	7.6	6.8
Cumberland	McLaughlin Cumberland Hill School	90	48.9	5.3	73	53.4	5.8	4.5
Lincoln	Lonsdale Elementary School	33	45.5	8.7	41	51.2	7.8	5.8
Westerly	Bradford Elementary School	22	63.6	10.3	20	50.0	11.2	-13.6
Cranston	Chester W. Barrows School	31	61.3	8.8	36	50.0	8.3	-11.3
East Providence	Silver Spring School	24	50.0	10.2	44	50.0	7.5	0.0
Exeter-West Greenwich	Metcalf School	138	53.6	4.3	130	48.5	4.4	-5.2
Westerly	State Street School	47	57.4	7.2	60	48.3	6.5	-9.1
Narragansett	Narragansett Elementary School	86	58.1	5.3	108	48.1	4.8	-10.0
Bristol Warren	Colt Andrews School	56	44.6	6.6	75	48.0	5.8	3.4
Smithfield	Old County Road School	35	45.7	8.4	40	47.5	7.9	1.8
Cranston	Daniel D. Waterman School	33	60.6	8.5	38	47.4	8.1	-13.2
Bristol Warren	Hugh Cole School	81	30.9	5.1	67	46.3	6.1	15.4
East Providence	Agnes B. Hennessey School	49	26.5	6.3	37	45.9	8.2	19.4
Middletown	Joseph H. Gaudet Learning Academy	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	169	45.6	3.8	<i>n/a</i>
Cumberland	Garvin Memorial School	68	44.1	6.0	57	45.6	6.6	1.5
Providence	Vartan Gregorian Elementary	30	50.0	9.1	55	45.5	6.7	-4.6
Providence	R. F. Kennedy Elementary	78	41.0	5.6	77	45.5	5.7	4.4
Newport	Coggeshall School	19	26.3	10.1	44	45.5	7.5	19.1
Warwick	Oakland Beach Elementary School	41	22.0	6.5	53	45.3	6.8	23.3

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District	School	N tested 2009	% prof. 2009	CI	N tested 2010	% prof. 2010	CI	2009 to 2010 Gr. 4 difference in % prof.
North Providence	Stephen Olney School	40	30.0	7.3	40	45.0	7.9	15.0
Westerly	Dunn's Corners School	44	54.5	7.5	69	44.9	6.0	-9.6
Lincoln	Northern Lincoln Elementary	60	45.0	6.4	69	44.9	6.0	-0.1
Rhode Island Grade 4		9648	40.3	0.5	10059	44.1	0.5	3.8
Warwick	Cottrell F. Hoxsie School	36	47.2	8.3	50	44.0	7.0	-3.2
Woonsocket	Leo A. Savoie School	44	29.5	6.9	57	43.9	6.6	14.3
Burrillville	Steere Farm Elementary	93	29.0	4.7	106	41.5	4.8	12.5
Warwick	Holliman School	42	57.1	7.6	51	41.2	6.9	-16.0
Paul Cuffee Charter Sch	Paul Cuffee Charter School	50	32.0	6.6	54	40.7	6.7	8.7
Cranston	Garden City School	36	44.4	8.3	37	40.5	8.1	-3.9
Woonsocket	Globe Park School	53	34.0	6.5	47	40.4	7.2	6.5
Warwick	John Wickes School	44	43.2	7.5	40	40.0	7.8	-3.2
Cranston	George J. Peters School	35	42.9	8.4	50	40.0	6.9	-2.9
Warwick	Randall Holden School	26	53.8	9.8	28	39.3	9.2	-14.6
Providence	Carnevale Elementary School	69	20.3	4.8	51	39.2	6.8	18.9
Pawtucket	Francis J. Varieur School	45	37.8	7.2	41	39.0	7.6	1.3
Warwick	Francis School	47	51.1	7.3	44	38.6	7.3	-12.4
Warwick	E. G. Robertson School	45	44.4	7.4	52	38.5	6.8	-6.0
Warwick	Warwick Neck School	33	30.3	8.0	50	38.0	6.9	7.7
Cranston	Gladstone Street School	83	37.3	5.3	87	37.9	5.2	0.6
Central Falls	Margaret I. Robertson School	33	39.4	8.5	40	37.5	7.7	-1.9
West Warwick	Greenbush Elementary School	61	39.3	6.3	72	37.5	5.7	-1.8
Pawtucket	Curvin-McCabe School	52	25.0	6.0	59	37.3	6.3	12.3
Cranston	Glen Hills School	45	40.0	7.3	43	37.2	7.4	-2.8
Newport	Cranston - Calvert School	42	26.2	6.8	43	37.2	7.4	11.0
Warwick	Sherman School	45	35.6	7.1	66	36.4	5.9	0.8
Burrillville	William L. Callahan School	73	53.4	5.8	86	36.0	5.2	-17.4
North Providence	Dr. Joseph A. Whelan Elementary	27	37.0	9.3	25	36.0	9.6	-1.0
West Warwick	John F. Horgan Elementary	66	36.4	5.9	74	35.1	5.6	-1.2
North Providence	Marieville Elementary School	33	36.4	8.4	43	34.9	7.3	-1.5
East Providence	Kent Heights School	45	57.8	7.4	49	34.7	6.8	-23.1
Cranston	Arlington School	20	25.0	9.7	26	34.6	9.3	9.6
Woonsocket	Harris School	64	21.9	5.2	61	34.4	6.1	12.6
Warwick	Norwood School	39	35.9	7.7	42	33.3	7.3	-2.6
North Providence	Centredale School	31	48.4	9.0	34	32.4	8.0	-16.0
Cranston	William R. Dutemple School	43	41.9	7.5	44	31.8	7.0	-10.0
Warwick	Harold F. Scott School	59	55.9	6.5	38	31.6	7.5	-24.4
Cumberland	Ashton School	53	35.8	6.6	48	31.3	6.7	-4.6
Newport	Dr. M. H. Sullivan School	20	5.0	4.9	42	31.0	7.1	26.0
Cranston	Edgewood Highland School	24	50.0	10.2	36	30.6	7.7	-19.4
Warwick	Lippitt School	31	19.4	7.1	30	30.0	8.4	10.7
West Warwick	Wakefield Hills Elementary	62	33.9	6.0	74	29.7	5.3	-4.1
Woonsocket	Citizens Memorial School	105	21.9	4.0	82	29.3	5.0	7.4
East Providence	Emma G. Whiteknact School	22	13.6	7.3	42	28.6	7.0	14.9
Providence	Reservoir Avenue School	36	5.6	3.8	25	28.0	9.0	22.4
Cumberland	B.F. Norton Elementary School	55	18.2	5.2	44	27.3	6.7	9.1
Providence	Dr. M. L. King Jr. Elementary	45	42.2	7.4	51	25.5	6.1	-16.7
West Warwick	Maisie E. Quinn Elementary	42	23.8	6.6	50	24.0	6.0	0.2
Providence	Harry Kizirian Elementary School	66	7.6	3.3	78	21.8	4.7	14.2
East Providence	James R. D. Oldham School	49	26.5	6.3	37	21.6	6.8	-4.9
Pawtucket	Flora S. Curtis Memorial School	33	15.2	6.2	37	21.6	6.8	6.5
International Charter	International Charter School	49	22.4	6.0	47	21.3	6.0	-1.2
Providence	Veazie Street School	76	13.2	3.9	84	20.2	4.4	7.1
Pawtucket	Potter-Burns School	79	20.3	4.5	70	20.0	4.8	-0.3
Woonsocket	Kevin K. Coleman Elementary	73	16.4	4.3	81	19.8	4.4	3.3
Central Falls	Ella Risk School	71	11.3	3.8	89	19.1	4.2	7.8
Pawtucket	M. Virginia Cunningham School	57	21.1	5.4	64	18.8	4.9	-2.3
Pawtucket	Nathanael Greene School	78	23.1	4.8	71	18.3	4.6	-4.8
Central Falls	Veterans Memorial Elementary	78	11.5	3.6	93	18.3	4.0	6.7
Providence	William D'Abate Elementary	74	5.4	2.6	78	17.9	4.4	12.5
Providence	Windmill Street Elementary	49	8.2	3.9	55	16.4	5.0	8.2

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District	School	N tested 2009	% prof. 2009	CI	N tested 2010	% prof. 2010	CI	2009 to 2010 Gr. 4 difference in % prof.
Pawtucket	Fallon Memorial School	76	21.1	4.7	68	16.2	4.5	-4.9
Providence	Asa Messer Elementary School	68	4.4	2.5	68	16.2	4.5	11.8
Pawtucket	Agnes E. Little School	43	18.6	5.9	58	15.5	4.8	-3.1
East Providence	Orlo Avenue School	41	17.1	5.9	47	14.9	5.2	-2.2
Providence	Charles N. Fortes Elementary	69	5.8	2.8	61	14.8	4.5	9.0
Pawtucket	Elizabeth Baldwin School	109	17.4	3.6	93	14.0	3.6	-3.5
Providence	Times2 Academy	48	22.9	6.1	51	13.7	4.8	-9.2
Learning Community	Learning Community Charter Sch.	57	21.1	5.4	54	13.0	4.6	-8.1
Providence	Feinstein Elementary Sackett Street	77	2.6	1.8	77	13.0	3.8	10.4
Providence	Alfred Lima Sr. Elementary School	27	22.2	8.0	63	12.7	4.2	-9.5
Providence	Carl G. Lauro Elementary School	100	10.0	3.0	113	12.4	3.1	2.4
Providence	Webster Avenue School	25	24.0	8.5	25	12.0	6.5	-12.0
Providence	George J. West Elementary	94	16.0	3.8	100	12.0	3.3	-4.0
Providence	Mary E. Fogarty Elementary	55	1.8	1.8	67	11.9	4.0	10.1
Providence	Frank D. Spaziano Ave. Elementary	89	4.5	2.2	80	10.0	3.4	5.5
Providence	Feinstein Elementary at Broad St.	45	15.6	5.4	54	9.3	3.9	-6.3
Highlander	Highlander Charter School	18	16.7	8.8	36	8.3	4.6	-8.3
Providence	Sgt. Cornel Young Jr. Elementary	36	2.8	2.7	36	8.3	4.6	5.6
Pawtucket	Henry J. Winters School	54	9.3	3.9	65	7.7	3.3	-1.6
Providence	Pleasant View School	47	4.3	2.9	52	7.7	3.7	3.4
Providence	West Broadway Elementary	43	2.3	2.3	66	6.1	2.9	3.7
Providence	Edmund W. Flynn Elementary	53	3.8	2.6	83	3.6	2.1	-0.2
Providence	Robert L Bailey IV Elementary	33	3.0	3.0	41	2.4	2.4	-0.6
Providence	Charlotte Woods Elementary	44	4.5	3.1	47	2.1	2.1	-2.4
New Shoreham	Block Island School	11	72.7	13.4	-	-	-	-
R.I. Sch for the Deaf	Rhode Island School for the Deaf	-	-	-	-	-	-	-

Key

- CI = Confidence Interval (see Appendix)
- = All information associated with *n* sizes <10 has been redacted as per RIDE policy.
- n/a* = Information not available
- = Statistically significant *decrease* in percent of students proficient or above from 2009 to 2010 NECAP science results
- = Statistically significant *increase* in percent of students proficient or above from 2009 to 2010 NECAP science results
- = No statistically significant change from 2009 to 2010 NECAP science results

Table 8. Percent of Students At/Above Proficient by District: Grade 8 only (table sorted based on 2010 results)

District	N tested 2008	% prof. 2008	CI	N tested 2009	% prof. 2009	CI	N tested 2010	% prof. 2010	CI	2009 to 2010 Gr. 8 difference in % prof.
Barrington	299	64.2	2.8	264	63.6	3.0	267	65.2	2.9	1.5
East Greenwich	216	43.5	3.4	188	48.9	3.6	206	55.3	3.5	6.4
Smithfield	227	44.1	3.3	199	31.2	3.3	236	50.8	3.3	19.7
The Compass School	11	27.3	13.4	15	33.3	12.2	14	50.0	13.4	16.7
Jamestown	57	29.8	6.1	55	30.9	6.2	53	47.2	6.9	16.3
North Kingstown	350	30.0	2.4	354	28.0	2.4	338	44.1	2.7	16.1
South Kingstown	319	43.9	2.8	283	37.5	2.9	274	43.1	3.0	5.6
Little Compton	38	21.1	6.6	32	40.6	8.7	33	39.4	8.5	-1.2
Coventry	469	31.1	2.1	434	26.7	2.1	417	38.6	2.4	11.9
Exeter-West Greenwich	161	29.2	3.6	160	33.8	3.7	165	38.2	3.8	4.4
Portsmouth	256	30.1	2.9	218	31.2	3.1	237	37.6	3.1	6.4
Scituate	143	39.2	4.1	148	32.4	3.8	146	36.3	4.0	3.9
Narragansett	135	29.6	3.9	129	32.6	4.1	127	33.1	4.2	0.5
Chariho	297	30.0	2.7	278	32.0	2.8	280	30.7	2.8	-1.3
Tiverton	158	16.5	2.9	167	10.8	2.4	148	29.7	3.8	19.0
Foster-Glocester	224	18.8	2.6	199	16.1	2.6	190	29.5	3.3	13.4
Middletown	177	34.5	3.6	196	26.0	3.1	185	28.6	3.3	2.6
Westerly	276	25.7	2.6	279	25.8	2.6	238	26.9	2.9	1.1
Cumberland	436	21.1	2.0	418	16.5	1.8	382	25.7	2.2	9.1

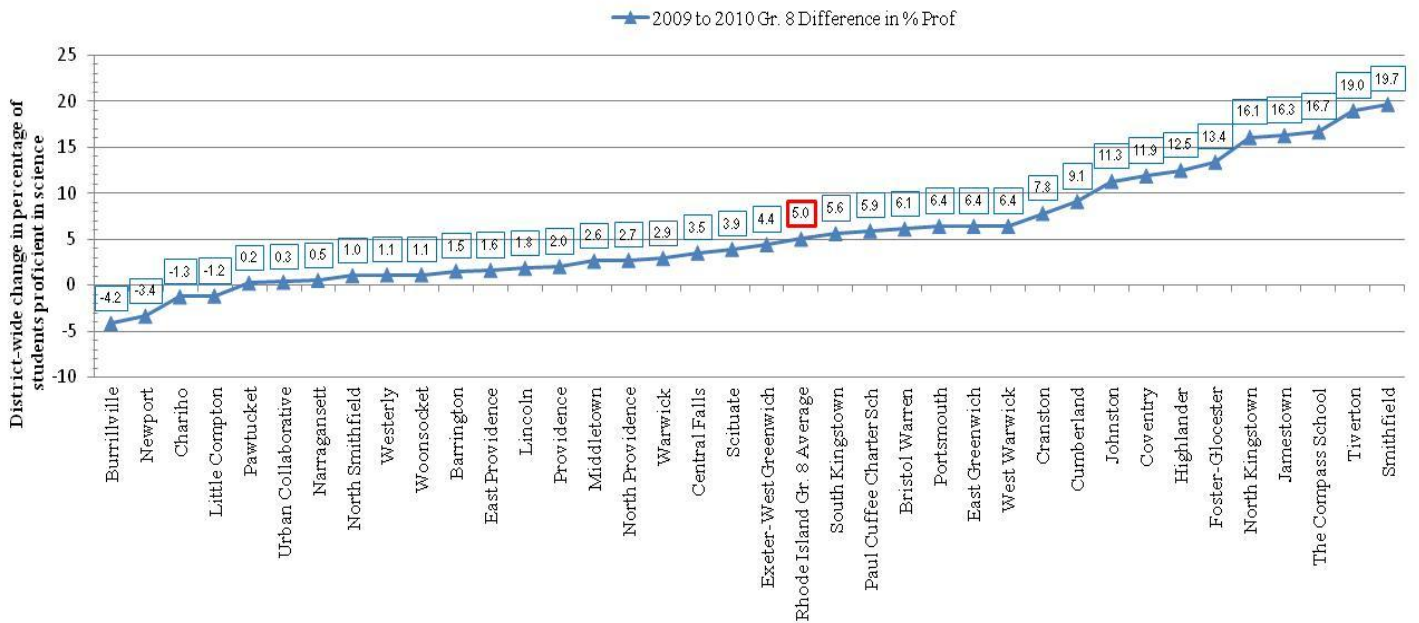
2010 RI NECAP Science Results for Students in Grades 4, 8, and 11

District	N tested 2008	% prof. 2008	CI	N tested 2009	% prof. 2009	CI	N tested 2010	% prof. 2010	CI	2009 to 2010 Gr. 8 difference in % prof.
Cranston	902	17.4	1.3	844	17.4	1.3	880	25.2	1.5	7.8
Bristol Warren	282	19.1	2.3	261	18.8	2.4	269	24.9	2.6	6.1
Lincoln	292	24.7	2.5	270	21.9	2.5	305	23.6	2.4	1.8
Rhode Island Gr. 8	11883	18.7	0.4	11238	17.6	0.4	11120	22.6	0.4	5.0
North Smithfield	148	13.5	2.8	161	21.1	3.2	140	22.1	3.5	1.0
Johnston	272	24.3	2.6	289	9.3	1.7	290	20.7	2.4	11.3
Warwick	873	15.8	1.2	868	17.3	1.3	862	20.2	1.4	2.9
Newport	170	12.4	2.5	175	18.9	3.0	142	15.5	3.0	-3.4
East Providence	472	10.8	1.4	419	13.6	1.7	422	15.2	1.7	1.6
West Warwick	292	13.0	2.0	254	7.9	1.7	252	14.3	2.2	6.4
Paul Cuffee Charter Sch	39	7.7	4.3	44	6.8	3.8	47	12.8	4.9	5.9
Highlander	32	6.3	4.3	32	0.0	0.0	32	12.5	5.8	12.5
Burrillville	214	29.9	3.1	174	16.1	2.8	176	11.9	2.4	-4.2
North Providence	276	11.2	1.9	263	7.6	1.6	281	10.3	1.8	2.7
Woonsocket	431	2.6	0.8	418	5.7	1.1	422	6.9	1.2	1.1
Pawtucket	751	7.1	0.9	698	6.6	0.9	726	6.7	0.9	0.2
Providence	1828	1.8	0.3	1588	3.1	0.4	1623	5.1	0.5	2.0
Central Falls	275	1.5	0.7	273	1.1	0.6	240	4.6	1.3	3.5
Urban Collaborative	56	0.0	0.0	74	1.4	1.3	59	1.7	1.7	0.3
DCYF	-	-	-	-	-	-	-	-	-	-
R.I. Sch. for the Deaf	-	-	-	-	-	-	-	-	-	-

Key

- CI = Confidence Interval (see Appendix)
- = All information associated with *n* sizes <10 has been redacted as per RIDE policy.
- (red) = Statistically significant *decrease* in percent of students proficient or above from 2009 to 2010 NECAP science results
- (green) = Statistically significant *increase* in percent of students proficient or above from 2009 to 2010 NECAP science results
- (white) = No statistically significant change from 2009 to 2010 NECAP science results




Figure 5. Difference Between 2009 and 2010 Percent Proficient in Each District: Grade 8



2010 RI NECAP Science Results for Students in Grades 4, 8, and 11

Table 9. Percent of Students At/Above Proficient by School: *Grade 8 only* (table sorted based on 2010 results)

District	School	N tested 2009	% prof 2009	CI	N tested 2010	% prof 2010	CI	2009 to 2010 Gr. 8 difference in % proficient
Barrington	Barrington Middle School	264	63.6	3.0	267	65.2	2.9	1.5
East Greenwich	Archie R. Cole Middle School	188	48.9	3.7	204	55.9	3.5	6.9
Smithfield	Vincent J. Gallagher Middle School	199	31.2	3.3	236	50.8	3.3	19.7
The Compass School	The Compass School	15	33.3	12.2	14	50.0	13.4	16.7
North Kingstown	Wickford Middle School	162	25.3	3.4	153	47.7	4.0	22.4
Jamestown	Jamestown School-Lawn	55	30.9	6.2	53	47.2	6.9	16.3
South Kingstown	Curtis Corner Middle School	141	44.0	4.2	273	43.2	3.0	-0.7
North Kingstown	Davisville Middle School	192	30.2	3.3	183	41.5	3.6	11.3
Little Compton	Wilbur and McMahon Schools	32	40.6	8.7	33	39.4	8.5	-1.2
Coventry	Feinstein Middle School Of Coventry	434	26.7	2.1	415	38.8	2.4	12.1
Exeter-West Greenwich	Exeter-W. Greenwich Reg. Junior High	160	33.8	3.7	164	38.4	3.8	4.7
Portsmouth	Portsmouth Middle School	218	31.2	3.1	235	37.9	3.2	6.7
Scituate	Scituate Middle School	148	32.4	3.9	146	36.3	4.0	3.9
Narragansett	Narragansett Pier School	129	32.6	4.1	125	33.6	4.2	1.0
Chariho	Chariho Regional Middle School	266	33.5	2.9	272	31.6	2.8	-1.8
Cumberland	North Cumberland Middle School	232	19.8	2.6	212	31.1	3.2	11.3
Cranston	Western Hills Middle School	373	20.6	2.1	377	30.2	2.4	9.6
Tiverton	Tiverton Middle School	167	10.8	2.4	147	29.9	3.8	19.2
Foster-Glocester	Ponagansett Middle School	199	16.1	2.6	190	29.5	3.3	13.4
Middletown	Joseph H. Gaudet School	196	26.0	3.1	183	29.0	3.4	2.9
Westerly	Westerly Middle School	279	25.8	2.6	235	27.2	2.9	1.4
Cranston	Park View Middle School	256	15.6	2.3	260	26.9	2.8	11.3
Bristol Warren	Kickemuit Middle School	261	18.8	2.4	269	24.9	2.6	6.1
Lincoln	Lincoln Middle School	270	21.9	2.5	303	23.8	2.5	1.9
Warwick	Winman Junior High School	272	24.3	2.6	279	23.3	2.5	-1.0
Rhode Island Grade 8		11238	17.6	0.4	11120	22.6	0.4	5.0
North Smithfield	North Smithfield Middle School	161	21.1	3.2	140	22.1	3.5	1.0
Providence	Nathanael Greene Middle School	306	10.5	1.8	308	21.8	2.4	11.3
Johnston	Nicholas A. Ferri Middle School	289	9.3	1.7	287	20.9	2.4	11.6
Warwick	Gorton Junior High School	274	13.9	2.1	298	19.5	2.3	5.6
Cumberland	Joseph L. McCourt Middle School	186	12.4	2.4	166	19.3	3.1	6.9
Warwick	Aldrich Junior High School	322	14.3	2.0	280	18.2	2.3	3.9
East Providence	Riverside Middle School	153	13.7	2.8	163	17.2	3.0	3.5
Cranston	Hugh B. Bain Middle School	215	14.0	2.4	236	16.1	2.4	2.1
Newport	Frank E. Thompson Middle School	175	18.9	3.0	139	15.8	3.1	-3.0
East Providence	Edward R. Martin Middle School	266	13.5	2.1	252	14.3	2.2	0.8
West Warwick	John F. Deering Middle School	254	7.9	1.7	251	14.3	2.2	6.5
North Providence	Birchwood Middle School	133	9.0	2.5	136	14.0	3.0	4.9
Paul Cuffee Charter Sch	Paul Cuffee Charter School	44	6.8	3.8	47	12.8	4.9	5.9
Highlander	Highlander Charter School	32	0.0	0.0	32	12.5	5.9	12.5
Burrillville	Burrillville Middle School	174	16.1	2.8	176	11.9	2.4	-4.2
Pawtucket	Goff Junior High School	232	9.1	1.9	251	9.6	1.9	0.5
Providence	Times2 Academy	60	8.3	3.6	67	7.5	3.2	-0.9
Woonsocket	Woonsocket Middle School	418	5.7	1.1	410	7.1	1.3	1.3
North Providence	Dr. Edward A. Ricci Middle School	130	6.2	2.1	145	6.9	2.1	0.7
Pawtucket	Joseph Jenks Junior High School	193	4.7	1.5	199	5.5	1.6	0.9
Pawtucket	Samuel Slater Junior High School	273	5.9	1.4	262	5.3	1.4	-0.5
Central Falls	Dr. Earl F. Calcutt Middle School	273	1.1	0.6	239	4.6	1.4	3.5
Urban Collaborative	Urban Collaborative Accelerated Prog.	74	1.4	1.3	59	1.7	1.7	0.3
Providence	Gilbert Stuart Middle School	225	0.4	0.4	232	1.7	0.9	1.3
Providence	Oliver Hazard Perry Middle School	216	0.5	0.5	211	1.4	0.8	1.0
Providence	Esek Hopkins Middle School	158	0.6	0.6	145	0.7	0.7	0.1
Providence	Samuel W. Bridgham Middle School	213	0.9	0.7	198	0.5	0.5	-0.4
Providence	Roger Williams Middle School	237	0.0	0.0	287	0.3	0.4	0.3
Providence	DelSesto Middle School	173	4.0	1.5	154	0.0	0.0	-4.0
Chariho	The R.Y.S.E. School	12	0.0	0.0	-	-	-	-
R.I. Sch for the Deaf	R.I. School for the Deaf	-	-	-	-	-	-	-

Key
 CI = Confidence Interval (see Appendix)
 - = All information associated with *n* sizes <10 has been redacted as per RIDE policy.
 = Statistically significant *decrease* in percent of students proficient or above from 2009 to 2010 NECAP science results
 = Statistically significant *increase* in percent of students proficient or above from 2009 to 2010 NECAP science results
 = No statistically significant change from 2009 to 2010 NECAP science results

2010 RI NECAP Science Results for Students in Grades 4, 8, and 11

Table 10. Percent of Students At/Above Proficient by District: *Grade 11 only* (table sorted based on 2010 results)

District	N tested 2008	% prof. 2008	CI	N tested 2009	% prof. 2009	CI	N tested 2010	% prof. 2010	CI	2009 to 2010 Gr. 11 difference in % prof.
Portsmouth	224	36.6	3.2	235	42.6	3.2	232	51.7	3.3	9.2
East Greenwich	177	38.4	3.7	186	50.0	3.7	185	50.8	3.7	0.8
Narragansett	115	27.0	4.1	112	46.4	4.7	113	50.4	4.7	4.0
Barrington	283	55.5	3.0	271	55.7	3.0	292	50.0	2.9	-5.7
South Kingstown	300	35.7	2.8	296	43.9	2.9	251	43.0	3.1	-0.9
Westerly	269	21.6	2.5	225	18.2	2.6	257	40.1	3.1	21.9
Chariho	294	21.4	2.4	239	27.2	2.9	284	37.7	2.9	10.5
Smithfield	224	28.6	3.0	205	32.2	3.3	190	37.4	3.5	5.2
Scituate	119	16.8	3.4	136	27.9	3.8	126	36.5	4.3	8.6
Lincoln	265	25.7	2.7	224	29.5	3.0	238	34.0	3.1	4.6
North Smithfield	142	27.5	3.7	134	23.9	3.7	137	29.9	3.9	6.0
North Kingstown	388	26.0	2.2	382	26.2	2.2	403	28.3	2.2	2.1
New Shoreham	19	36.8	11.1	11	18.2	11.6	19	26.3	10.1	8.1
Cumberland	336	18.8	2.1	341	29.3	2.5	371	25.1	2.3	-4.3
Middletown	140	15.7	3.1	130	39.2	4.3	135	24.4	3.7	-14.8
Foster-Glocester	219	14.2	2.4	198	28.8	3.2	202	23.3	3.0	-5.5
Cranston	841	13.8	1.2	825	15.5	1.3	800	22.8	1.5	7.2
Coventry	426	14.8	1.7	429	14.9	1.7	396	22.5	2.1	7.6
Tiverton	154	30.5	3.7	155	25.8	3.5	126	21.4	3.7	-4.4
Rhode Island Gr. 11	10471	16.4	0.4	10301	19.4	0.4	10305	20.5	0.4	1.1
Bristol Warren	248	19.0	2.5	231	27.3	2.9	258	19.0	2.4	-8.3
Exeter-West Greenwich	164	25.6	3.4	138	23.2	3.6	150	18.7	3.2	-4.5
Newport	123	15.4	3.3	117	9.4	2.7	152	17.1	3.1	7.7
Burrillville	184	8.7	2.1	209	19.6	2.7	197	15.2	2.6	-4.4
Davies Career and Tech	157	3.2	1.4	171	12.9	2.6	163	14.7	2.8	1.9
Beacon Charter School	21	4.8	4.6	51	13.7	4.8	42	14.3	5.4	0.6
Warwick	842	13.7	1.2	796	16.5	1.3	765	13.6	1.2	-2.9
Johnston	181	16.0	2.7	143	11.2	2.6	219	12.3	2.2	1.1
West Warwick	222	14.9	2.4	275	12.4	2.0	223	10.8	2.1	-1.6
North Providence	281	9.6	1.8	276	9.8	1.8	251	10.0	1.9	0.2
Pawtucket	449	9.4	1.4	424	11.1	1.5	489	8.6	1.3	-2.5
East Providence	441	8.2	1.3	420	14.8	1.7	414	8.0	1.3	-6.8
Providence	1463	4.6	0.6	1431	4.7	0.6	1414	6.9	0.7	2.2
Blackstone Academy	37	2.7	2.7	43	16.3	5.6	39	5.1	3.5	-11.2
Woonsocket	364	4.9	1.1	341	11.1	1.7	378	4.8	1.1	-6.4
Central Falls	166	4.2	1.6	186	2.7	1.2	189	3.7	1.4	1.0
MET Career and Tech	155	2.6	1.3	187	7.0	1.9	176	0.6	0.6	-6.4
DCYF	-	-	-	11	0.0	0.0	-	-	-	-
R.I. School for the Deaf	-	-	-	-	-	-	-	-	-	-

Key

- CI = Confidence Interval (see Appendix)
- = All information associated with *n* sizes <10 has been redacted as per RIDE policy.
- = Statistically significant *decrease* in percent of students proficient or above from 2009 to 2010 NECAP science results
- = Statistically significant *increase* in percent of students proficient or above from 2009 to 2010 NECAP science results
- = No statistically significant change from 2009 to 2010 NECAP science results

2010 RI NECAP Science Results for Students in Grades 4, 8, and 11

Figure 6. Difference Between 2009 and 2010 Percent Proficient in Each District: **Grade 11**

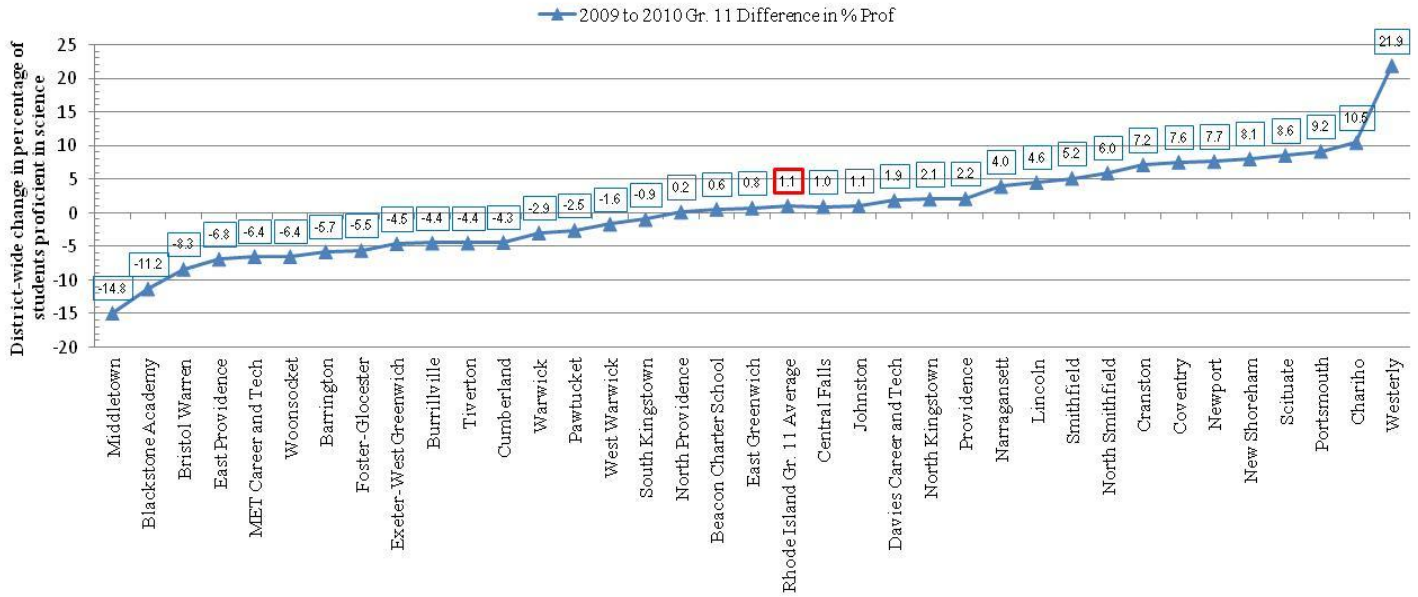


Table 11. Percent of Students At/Above Proficient by School: **Grade 11 only** (table sorted based on 2010 results)

District	School	N tested 2009	% prof 2009	CI	N tested 2010	% prof 2010	CI	2009 to 2010 Gr. 11 Difference in % prof
Portsmouth	Portsmouth High School	235	42.6	3.2	231	51.9	3.3	9.4
East Greenwich	East Greenwich High School	186	50.0	3.7	184	51.1	3.7	1.1
Narragansett	Narragansett High School	112	46.4	4.7	111	50.5	4.8	4.0
Barrington	Barrington High School	271	55.7	3.0	291	50.2	2.9	-5.5
South Kingstown	South Kingstown High School	296	43.9	2.9	250	43.2	3.1	-0.7
Westerly	Westerly High School	225	18.2	2.6	256	40.2	3.1	22.0
Chariho	Chariho Regional High School	238	27.3	2.9	280	38.2	2.9	10.9
Smithfield	Smithfield Senior High School	205	32.2	3.3	190	37.4	3.5	5.2
Scituate	Scituate High School	136	27.9	3.9	126	36.5	4.3	8.6
Lincoln	Lincoln Senior High School	224	29.5	3.1	238	34.0	3.1	4.6
Cranston	Cranston High School West	418	21.3	2.0	401	32.9	2.4	11.6
Providence	Classical High School	265	21.1	2.5	244	30.3	2.9	9.2
North Smithfield	North Smithfield High School	134	23.9	3.7	136	30.1	3.9	6.3
Providence	Times2 Academy	36	16.7	6.2	30	30.0	8.4	13.3
North Kingstown	North Kingstown Senior High School	382	26.2	2.3	402	28.4	2.3	2.2
New Shoreham	Block Island School	11	18.2	11.6	19	26.3	10.1	8.1
Middletown	Middletown High School	130	39.2	4.3	131	25.2	3.8	-14.0
Cumberland	Cumberland High School	341	29.3	2.5	371	25.1	2.3	-4.3
Foster-Glocester	Ponaganset High School	198	28.8	3.2	202	23.3	3.0	-5.5
Coventry	Coventry High School	429	14.9	1.7	396	22.5	2.1	7.6
Tiverton	Tiverton High School	155	25.8	3.5	125	21.6	3.7	-4.2
Rhode Island Grade 11		10301	19.4	0.4	10305	20.5	0.4	1.0
Bristol Warren	Mt. Hope High School	231	27.3	2.9	255	19.2	2.5	-8.1
Exeter-West Greenwich	Exeter-W. Greenwich Reg. High School	138	23.2	3.6	150	18.7	3.2	-4.5
Warwick	Toll Gate High School	266	20.3	2.5	248	17.3	2.4	-3.0
Newport	Rogers High School	117	9.4	2.7	151	17.2	3.1	7.8
Pawtucket	Walsh School for the Performing and	27	18.5	7.5	19	15.8	8.4	-2.7

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District	School	N tested 2009	% prof 2009	CI	N tested 2010	% prof 2010	CI	2009 to 2010 Gr. 11 Difference in % prof
Cranston	Cranston High School East	359	10.6	1.6	325	15.4	2.0	4.8
Burrillville	Burrillville High School	209	19.6	2.8	197	15.2	2.6	-4.4
Davies Career and Tech	Davies Jr. Career-Technical High School	171	12.9	2.6	163	14.7	2.8	1.9
Beacon Charter School	BEACON Charter School	51	13.7	4.8	42	14.3	5.4	0.6
Warwick	Pilgrim High School	258	17.8	2.4	268	13.1	2.1	-4.8
Johnston	Johnston Senior High School	143	11.2	2.6	218	12.4	2.2	1.2
West Warwick	West Warwick Senior High School	275	12.4	2.0	220	10.9	2.1	-1.5
Warwick	Warwick Veterans Memorial HS	272	11.4	1.9	243	10.7	2.0	-0.7
North Providence	North Providence High School	276	9.8	1.8	251	10.0	1.9	0.2
Pawtucket	William E Tolman Senior High School	210	11.0	2.2	257	9.7	1.9	-1.2
East Providence	East Providence High School	420	14.8	1.7	408	8.1	1.4	-6.7
Pawtucket	Shea Senior High School	187	10.2	2.2	205	6.8	1.8	-3.3
Blackstone Academy	Blackstone Academy Charter School	43	16.3	5.6	39	5.1	3.5	-11.2
Woonsocket	Woonsocket High School	341	11.1	1.7	373	4.8	1.1	-6.3
Providence	Hope Arts School	68	0.0	0.0	107	4.7	2.0	4.7
Providence	Hope Information Technology School	84	1.2	1.2	106	3.8	1.9	2.6
Central Falls	Central Falls Senior High School	186	2.7	1.2	189	3.7	1.4	1.0
Providence	Providence Career and Technical School	11	0.0	0.0	68	1.5	1.5	1.5
Providence	Providence Acad. of International Studies	67	0.0	0.0	78	1.3	1.3	1.3
Providence	E-Cubed Academy	65	0.0	0.0	75	1.3	1.3	1.3
Providence	Mount Pleasant High School	184	0.5	0.5	212	0.9	0.7	0.4
MET Career and Tech	Metropolitan Reg. Career and Tech. Ctr.	187	7.0	1.9	176	0.6	0.6	-6.4
Providence	Central High School	213	0.0	0.0	195	0.5	0.5	0.5
Cranston	NEL/CPS Construction Career Academy	48	2.1	2.1	73	0.0	0.0	-2.1
Providence	Cooley Sr. High School/Health and Sci.	76	1.3	1.3	78	0.0	0.0	-1.3
Providence	Dr. Jorge Alvarez High School	160	0.6	0.6	105	0.0	0.0	-0.6
Providence	Textron Chamber of Commerce Acad.	45	0.0	0.0	43	0.0	0.0	0.0
Providence	Feinstein High School	72	0.0	0.0	54	0.0	0.0	0.0
DCYF	DCYF Alternative Education Program	11	0.0	0.0	-	-	-	-
R.I. School for the Deaf	R.I. School for the Deaf	-	-	-	-	-	-	-
Chariho	The R.Y.S.E. School	-	-	-	-	-	-	-

Key

- CI = Confidence Interval (see Appendix)
- = All information associated with *n* sizes <10 has been redacted as per RIDE policy.
-
 = Statistically significant *decrease* in percent of students proficient or above from 2009 to 2010 NECAP science results
-
 = Statistically significant *increase* in percent of students proficient or above from 2009 to 2010 NECAP science results
- = No statistically significant change from 2009 to 2010 NECAP science results

2010 RI NECAP Science Results for Students in Grades 4, 8, and 11

QUESTION:

How did various student subgroups perform on the NECAP science assessment?

SUPPORTING DATA:

Table 12. Percent of Students At/Above Proficient by Sub-Group on the NECAP Science Assessment.

Sub-Group	Grade 4			Grade 8			Grade 11		
	2009	2010	<i>Diff.</i>	2009	2010	<i>Diff.</i>	2009	2010	<i>Diff.</i>
State Average	40.3	44.1	3.8	17.6	22.6	5.0	19.4	20.5	1.1
Males	39.5	44.3	4.8	18.7	22.8	4.1	20.1	21.1	1.0
Females	41.1	43.9	2.8	16.3	22.3	6.0	18.8	19.9	1.1
IEP	16.1	14.7	-1.4	3.6	3.8	0.1	2.9	2.5	-0.4
Non-IEP	44.8	49.0	4.1	20.5	26.4	5.9	22.0	23.6	1.5
LEP	5.7	6.8	1.1	0.0	1.5	1.5	0.4	0.8	0.4
LEP Mon	19.2	18.0	-1.2	2.6	4.4	1.8	1.2	0.0	-1.2
Non-LEP	42.8	47.3	4.5	18.3	23.6	5.3	20.0	21.1	1.1
Econ Disadv.	18.8	24.8	5.9	5.6	7.4	1.8	6.3	7.6	1.4
Non-Econ Disadv.	56.3	61.4	5.1	25.5	33.7	8.2	25.3	27.4	2.1

Key

- = Statistically significant *decrease* in percent of students proficient or above from 2009 to 2010 NECAP science results
- = Statistically significant *increase* in percent of students proficient or above from 2009 to 2010 NECAP science results
- = No statistically significant change from 2009 to 2010 NECAP science results

Table 13. Percent of Students At/Above Proficient by Race/Ethnicity on the NECAP Science Assessment.

Race/ Ethnicity	Grade 4			Grade 8			Grade 11		
	2009	2010	<i>Diff.</i>	2009	2010	<i>Diff.</i>	2009	2010	<i>Diff.</i>
State Average	40.3	44.1	3.8	17.6	22.6	5.0	19.4	20.5	1.1
AI/AK Nat.	20.3	24.2	3.9	4.3	15.0	10.7	10.5	11.1	0.6
Asian	37.3	49.6	12.3	18.7	26.4	7.7	21.3	28.2	6.9
Black	17.3	18.9	1.6	3.7	5.6	1.8	4.4	4.5	0.1
Hispanic	14.8	18.2	3.4	3.0	5.1	2.1	4.5	5.7	1.2
White	50.3	55.3	4.9	23.0	29.2	6.1	24.4	25.5	1.2

Key

- AI/AK Nat. = American Indian/Alaska Native
- = Statistically significant *decrease* in percent of students proficient or above from 2009 to 2010 NECAP science results
- = Statistically significant *increase* in percent of students proficient or above from 2009 to 2010 NECAP science results
- = No statistically significant change from 2009 to 2010 NECAP science results

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Table 14. 2010 Science Achievement Gap: White Students vs. Black or Hispanic Students

Groups	Grade 4				Grade 8				Grade 11			
	N	2010 % prof.	CI	Gap	N	2010 % prof.	CI	Gap	N	2010 % prof.	CI	Gap
White Students*	6704	55.3	0.6	-	7706	29.2	0.5	-	7336	25.5	0.5	-
Black Students	921	18.9	1.3	36.4	972	5.6	0.7	23.6	920	4.5	0.7	21.1
Hispanic Students	1994	18.2	0.9	37.1	2003	5.1	0.5	24.1	1651	5.7	0.6	19.9


Key
 * = Group to which Black Students and Hispanic Students is being compared to determine gap.
 N = Number of students who took the NECAP Science Assessment in 2010
 CI = Confidence Interval (see Appendix)
 = Statistically significant *gap* between white students and comparison group in percent who scored proficient or above on the NECAP Science Assessment

Table 15. 2010 Science Achievement Gap: Students without IEPs vs. Students with IEPs

Groups	Grade 4				Grade 8				Grade 11			
	N	2010 % prof.	CI	Gap	N	2010 % prof.	CI	Gap	N	2010 % prof.	CI	Gap
Students w/o IEPs*	8630	49.0	0.5	-	9229	26.4	0.5	-	8783	23.6	0.5	-
Students w/IEPs	1429	14.7	0.9	34.3	1891	3.8	0.4	22.7	1522	2.5	0.4	21.1


Key
 * = Group to which Students with IEPs is being compared to determine gap
 N = Number of students who took the NECAP Science Assessment in 2010
 CI = Confidence Interval (see Appendix)
 = Statistically significant *gap* between students with IEPs and students without IEPs in percent who scored proficient or above on the NECAP Science Assessment

Table 16. 2010 Science Achievement Gap: Non-LEP Students vs. LEP Students

Groups	Grade 4				Grade 8				Grade 11			
	N	2010 % prof.	CI	Gap	N	2010 % prof.	CI	Gap	N	2010 % prof.	CI	Gap
Non-LEP Students*	9215	47.3	0.5	-	10567	23.6	0.4	-	9961	21.1	0.4	-
LEP Students	644	6.8	1.0	40.4	395	1.5	0.6	22.1	245	.8	0.6	20.3



Key
 * = Group to which LEP Students is being compared to determine gap
 N = Number of students who took the NECAP Science Assessment in 2010
 CI = Confidence Interval (see Appendix)
 = Statistically significant *gap* between LEP students and Non-LEP students in percent who scored proficient or above on the NECAP Science Assessment

Table 17. 2010 Science Achievement Gap: Non-Economically Disadvantaged vs. Econ. Disadv. Students

Groups	Grade 4				Grade 8				Grade 11			
	N	2010 % prof.	CI	Gap	N	2010 % prof.	CI	Gap	N	2010 % prof.	CI	Gap
Non-Econ. Disadv.*	5313	61.4	0.7	-	6412	33.7	0.6	-	6689	27.4	0.5	-
Econ. Disadvantaged	4746	24.8	0.6	36.6	4708	7.4	0.4	26.3	3616	7.6	0.4	19.8

Key
 * = Group to which Economically Disadvantaged Students is being compared to determine gap
 N = Number of students who took the NECAP Science Assessment in 2010
 CI = Confidence Interval (see Appendix)
 = Statistically significant *gap* between Low SES students and students not identified as Low SES in percent who scored proficient or above on the NECAP Science Assessment

APPENDIX

Confidence Interval (CI)

For the purposes of this report, *Confidence Interval* (CI) is defined as a measurement of the standard error of a percentage (e.g., % *proficient*, used throughout this report). Mathematically, CI's were calculated as follows:

$(CI) = \sqrt{\left(\frac{pq}{N}\right)}$, where p is the percent of students who are proficient, $q = (100-p)$ and N is the population or group size.

It is important to note that the derived CI is based on the size of the group being examined and its respective performance (e.g., % *proficient*) on the NECAP Science Assessment. The CI can be envisioned as range of values equal to the CI centered around the percent proficient, p . That is, viewing p as the center point, if one adds the value of CI to p and also subtracts the value of CI from p , then the full confidence interval is created with both an upper and lower boundary. For example, if the percent proficient, p equals 70% and CI equals .5, then the confidence interval ranges from 69.5% to 70.5%. This is the range in which one can be confident that the “true” value of the group’s performance (e.g., % *proficient*) exists.