July 2009

DEPARTMENT OF EDUCATION
2008–2009 School Year Reports

Dear School Board Members and School Personnel:

The Maine Educational Assessment (MEA) is the State's measure of student progress in achieving the State accountability standards of Maine's *Learning Results*. The *Learning Results* contain goals for what all students should know and be able to do at certain times in their school careers and include the accountability standards that are assessed for each grade. The MEA is administered to students in all grades 3 through 8 to meet state assessment requirements and the requirements of the federal *No Child Left Behind* Act.

The 2008-2009 MEA Summary Reports contain the results of student achievement in reading and mathematics at all grades and science at grades 5 and 8 and disaggregated by student and school characteristics. This report, together with MEA individual student and subject-specific class analysis reports, provides support for use in program evaluation and planning.

MEA results reflect scores based on test questions that are taken in common by the approximately 15,000 students in each grade level. Students' scores in each content area are based on answers to a combination of multiple-choice questions and questions that require students to construct an answer. More information about the MEA is available at www.maine.gov/education/mea/index.htm.

I look forward to working with you in support of our continued efforts to improve the quality and effectiveness of the instructional opportunities designed to help all students achieve the high standards of the *Learning Results* and demonstrate that achievement through performance on the assessments.

Sincerely,

Susan A. Gendron
Commissioner of Education

MEA
Maine Educational Assessment

School Report
Grade 5

Test Date:	March 2009
Code:	11251333
SAU:	Otis School Department
School:	Beech Hill School

Contents of the Report

The report is divided into two main sections including a section describing the students tested and a separate section for the results in each content area.

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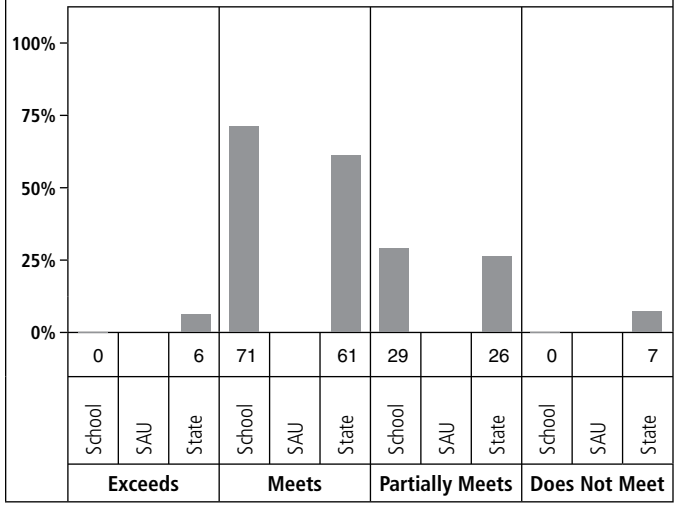
SUMMARY OF SCORES

Test Date: March 2009
Grade: 5
SAU: Otis School Department
School: Beech Hill School

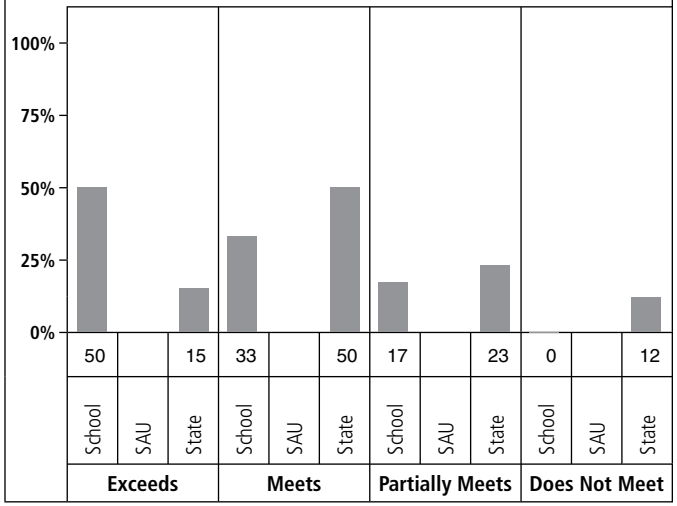
Summary of School, SAU, and State Scores

Year	Average Scaled Score		
	School	SAU	State
ELA – Reading			
2006–2007	545	548	544
2007–2008	546	547	545
2008–2009	**546**		**546**
Cum. Avg.*	546		545
Mathematics			
2006–2007	546	546	546
2007–2008	545	545	546
2008–2009	**554**		**547**
Cum. Avg.*	547		546
Science			
2008-2009 **	**547**		**543**

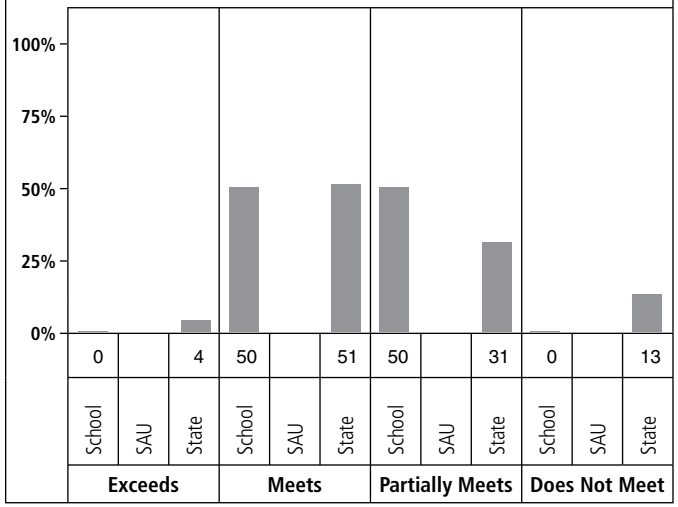
ELA – READING



MATHEMATICS



SCIENCE



*Cumulative averages are weighted, i.e., the scaled scores are averaged proportionally based on the numbers of students in each year.
**Because science testing moved from grade 4 to grade 5 in March 2009, science standards were reset and therefore no historical data are available.

SUMMARY OF STUDENT PARTICIPATION

Test Date: March 2009
Grade: 5
SAU: Otis School Department
School: Beech Hill School

CATEGORY OF PARTICIPATION	Enrollment[1] during testing window						CONTENT AREA PARTICIPATION[2]																	
							ELA–Reading						Mathematics						Science					
	School		SAU		State		School		SAU		State		School		SAU		State		School		SAU		State	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Total number of students	7	100	4	100	14212	100	7	100	4	100	14135	100	6	86	4	100	14144	100	6	86	4	100	14137	100
Ethnicity African American/Black	0	0	0	0	397	3	0	0	0	0	388	98	0	0	0	0	393	99	0	0	0	0	389	98
American Indian or Native Alaskan	0	0	0	0	110	1	0	0	0	0	110	100	0	0	0	0	110	100	0	0	0	0	110	100
Asian or Pacific Islander	0	0	0	0	259	2	0	0	0	0	253	98	0	0	0	0	258	100	0	0	0	0	257	99
Hispanic	0	0	0	0	175	1	0	0	0	0	172	99	0	0	0	0	172	99	0	0	0	0	173	99
Caucasian/White	7	100	4	100	13271	93	7	100	4	100	13212	100	6	86	4	100	13211	100	6	86	4	100	13208	100
Not Reported	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Identified disability	2	29	1	25	2479	17	2	100	1	100	2454	100	2	100	1	100	2455	100	2	100	1	100	2451	99
Current LEP	0	0	0	0	374	3	0	0	0	0	359	96	0	0	0	0	370	99	0	0	0	0	366	98
Economically disadvantaged	2	29	0	0	5848	41	2	100	0	0	5815	100	1	50	0	0	5819	100	1	50	0	0	5812	100
Migrant	0	0	0	0	8	0	0	0	0	0	8	100	0	0	0	0	8	100	0	0	0	0	8	100

MODE OF PARTICIPATION[3]	ELA–Reading						Mathematics						Science					
	School		SAU		State		School		SAU		State		School		SAU		State	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Participation without accommodations	6	86	4	100	10849	76	5	71	4	100	10872	76	5	71	4	100	10976	77
Identified disability (PET/IEP)	1	17	1	25	298	3	1	20	1	25	307	3	1	20	1	25	338	3
LEP	0	0	0	0	170	2	0	0	0	0	169	2	0	0	0	0	177	2
504 plan	0	0	0	0	123	1	0	0	0	0	121	1	0	0	0	0	126	1
Participation with accommodations	1	14	0	0	3122	22	1	14	0	0	3124	22	1	14	0	0	3019	21
Identified disability (PET/IEP)	1	100	0	0	1992	64	1	100	0	0	2000	64	1	100	0	0	1971	65
LEP	0	0	0	0	184	6	0	0	0	0	196	6	0	0	0	0	184	6
504 plan	0	0	0	0	84	3	0	0	0	0	86	3	0	0	0	0	81	3
Other	0	0	0	0	907	29	0	0	0	0	886	28	0	0	0	0	826	27
Participation through alternate assessment (PAAP)	0	0	0	0	164	1	0	0	0	0	148	1	0	0	0	0	142	1
Identified disability (PET/IEP)	0	0	0	0	164	100	0	0	0	0	148	100	0	0	0	0	142	100
LEP	0	0	0	0	5	3	0	0	0	0	5	3	0	0	0	0	5	4
504 plan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approved non-participation in reading – 1st year LEP	0	0	0	0	0	0												
Approved non-participation – special consideration	0	0	0	0	19	0	0	0	0	0	19	0	0	0	0	0	20	0
Non-participation – other	0	0	0	0	58	0	1	14	0	0	49	0	1	14	0	0	55	0

[1]Percents are the percentage of students enrolled in each participation category.
[2]Percents are the percentage of students, including those who participated through alternate assessment (PAAP), who participated in the content area.
[3]Percents are the percentage of students in each content area by mode.

ELA–READING RESULTS

Test Date:	March 2009
Grade:	5
SAU:	Otis School Department
School:	Beech Hill School

ACHIEVEMENT LEVEL DEFINITIONS

The quality of a student's work at each achievement level reflects progress in attaining Maine's *Learning Results: Parameters for Essential Instruction* in English language arts – reading.

		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
Exceeds the Standards – The student's work demonstrates the ability to read and interpret literary and informational texts appropriate for the grade level by drawing in-depth inferences, analyzing texts for subtle clues, synthesizing information across texts, and using his/her knowledge of text features and literary devices to make deeper connections within or across texts to increase comprehension. (Scaled Score 562–580)	2006-2007	1	10	1	20	702	5
	2007-2008	0	0	0	0	659	5
	2008-2009	**0**	**0**			**836**	**6**
	Cum. Total*	1	3			2197	5
Meets the Standards – The student's work demonstrates the ability to read and interpret literary and informational texts appropriate for the grade level by drawing inferences, summarizing main ideas and providing supporting details, connecting ideas within and across texts, and using his/her knowledge of text features and literary devices to increase comprehension. (Scaled Score 542–560)	2006-2007	4	40	2	40	7730	55
	2007-2008	7	58	5	71	8195	58
	2008-2009	**5**	**71**			**8495**	**61**
	Cum. Total*	16	55			24420	58
Partially Meets the Standards – The student's work demonstrates an inconsistent ability to read and interpret literary and informational texts appropriate for the grade level. The student's ability to draw inferences, summarize main ideas and provide supporting details, connect ideas within and across texts, and use his/her knowledge of text features and literary devices varies depending on the texts. (Scaled Score 532–540)	2006-2007	5	50	2	40	4182	30
	2007-2008	5	42	2	29	3800	27
	2008-2009	**2**	**29**			**3667**	**26**
	Cum. Total*	12	41			11649	28
Does Not Meet the Standards – The student's work demonstrates a limited ability to read and interpret literary and informational texts appropriate for the grade level. The student's responses are often vague or incorrect leaving the impression that the student found it difficult to draw inferences, summarize main ideas and provide supporting details, connect ideas within and across texts, or use his/her knowledge of text features and literary devices to support comprehension. (Scaled Score 500–530)	2006-2007	0	0	0	0	1419	10
	2007-2008	0	0	0	0	1362	10
	2008-2009	**0**	**0**			**973**	**7**
	Cum. Total*	0	0			3754	9

Learning Results Content Standards	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
Reading Total Points	**48**	**100**	31.3	65.2	34.5	71.9	30.8	64.2
A1/A2 Interconnected Elements/Literary Text	**24**	**50**	14.4	60.0	16.8	70.0	15.0	62.5
A1/A3 Interconnected Elements/Informational Text	**24**	**50**	16.9	70.4	17.8	74.2	15.8	65.8

The MEA assesses students' reading skills based on questions related to two types of reading passages: literary and informational. Reading passages include both long and short texts, selected from developmentally appropriate works. MEA reading items measure the English Language Arts accountability content standard A, Reading, contained in Maine's 2007 *Learning Results: Parameters for Essential Instruction*, which can be found at: http://www.maine.gov/education/lres/pei/index.html.

*Percentages are calculated by dividing the cumulative total of the number of students in the achievement level by the cumulative total of the number of students tested.

ELA-READING RESULTS
(CONTINUED)

Test Date: March 2009
Grade: 5
SAU: Otis School Department
School: Beech Hill School

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
All Students	7	0	0	5	71	2	29	0	0	546	4						13971	6	61	26	7	546
Ethnicity																						
African American/Black	0										0						381	2	44	31	23	540
American Indian or Native Alaskan	0										0						110	0	48	38	14	541
Asian or Pacific Islander	0										0						252	11	58	21	11	547
Hispanic	0										0						166	4	54	32	10	543
Caucasian/White	7	0	0	5	71	2	29	0	0	546	4						13062	6	62	26	6	546
Not Reported	0										0						0					
Identified disability																						
Yes	2										1						2290	0	29	47	23	537
No	5	0	0	4	80	1	20	0	0	548	3						11681	7	67	22	4	548
Current LEP																						
Yes	0										0						354	1	35	34	30	538
No	7	0	0	5	71	2	29	0	0	546	4						13617	6	61	26	6	546
Economically disadvantaged																						
Yes	2										0						5716	2	51	35	12	542
No	5	0	0	5	100	0	0	0	0	551	4						8255	9	67	20	4	548
Migrant																						
Yes	0										0						8	0	38	25	38	538
No	7	0	0	5	71	2	29	0	0	546	4						13963	6	61	26	7	546
Gender																						
Female	4										3						6882	8	62	24	6	547
Male	3										1						7089	4	60	28	8	545
Not Reported	0										0						0					
Title 1A targeted program																						
Yes	0										0						1914	1	41	44	14	540
No	7	0	0	5	71	2	29	0	0	546	4						12057	7	64	23	6	547
Gifted/talented program																						
Yes	0										0						450	26	72	2	0	557
No	7	0	0	5	71	2	29	0	0	546	4						13521	5	60	27	7	545

E = Exceeds the Standards **M = Meets the Standards** **P = Partially Meets the Standards** **D = Does Not Meet the Standards**

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. **N** = Number

ELA-READING RESULTS
(QUESTIONNAIRE ITEMS)

Test Date: March 2009
Grade: 5
SAU: Otis School Department
School: Beech Hill School

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%	
How much homework do you do on school nights?																						
A. none	0										0						4	2	40	34	24	540
B. less than one hour	83	0	0	4	80	1	20	0	0	550	75	0	100	0	0	552	70	6	63	26	6	546
C. one to two hours	0										0						24	7	61	26	6	546
D. more than two hours	17	0	0	1	100	0	0	0	0	544	25	0	100	0	0	544	2	4	42	33	21	541
Which of the following best describes how you rate yourself as a student in reading?																						
A. very good	17	0	0	1	100	0	0	0	0	558	25	0	100	0	0	558	36	10	67	18	5	549
B. good	50	0	0	3	100	0	0	0	0	547	75	0	100	0	0	547	47	5	62	27	6	546
C. fair	33	0	0	1	50	1	50	0	0	546	0						15	2	47	40	12	541
D. poor	0										0						2	0	30	46	24	537
How well do the questions that you have just been given on this MEA test match what you have learned in school about reading?																						
A. The questions on the test match what I have learned in reading class.	17	0	0	1	100	0	0	0	0	544	25	0	100	0	0	544	31	9	65	20	5	548
B. They match some of what I have learned.	67	0	0	4	100	0	0	0	0	553	75	0	100	0	0	552	55	5	63	27	5	546
C. They match just a little of what I have learned.	17	0	0	0	0	1	100	0	0	538	0						10	3	45	38	14	542
D. There is no match.	0										0						3	1	31	41	27	537
How difficult was the reading part of this test?																						
A. more difficult than my regular schoolwork	33	0	0	2	100	0	0	0	0	549	25	0	100	0	0	544	16	3	49	32	15	542
B. about the same as my regular schoolwork	50	0	0	3	100	0	0	0	0	552	75	0	100	0	0	552	64	7	63	25	5	547
C. easier than my regular schoolwork	17	0	0	0	0	1	100	0	0	538	0						20	5	62	26	7	546
How difficult were the reading passages on this test?																						
A. Most of the passages were more difficult than what I normally read.	17	0	0	1	100	0	0	0	0	544	25	0	100	0	0	544	10	1	33	42	24	538
B. Most of the passages were about the same as what I normally read.	50	0	0	2	67	1	33	0	0	547	25	0	100	0	0	550	52	4	61	29	6	545
C. Most of the passages were easier than what I normally read.	33	0	0	2	100	0	0	0	0	553	50	0	100	0	0	553	38	10	68	18	4	549
How much time do you spend reading at home each day?																						
A. more than one hour	17	0	0	1	100	0	0	0	0	544	25	0	100	0	0	544	20	10	64	21	5	548
B. 20 minutes to an hour	83	0	0	4	80	1	20	0	0	550	75	0	100	0	0	552	56	7	65	24	5	547
C. less than 20 minutes	0										0						10	3	52	33	12	543
D. I rarely read at home.	0										0						14	1	46	38	14	541
How many pages do you read in school and to complete homework assignments?																						
A. five or fewer pages	17	0	0	0	0	1	100	0	0	538	0						25	3	53	33	11	543
B. six to ten pages	0										0						26	6	61	26	7	546
C. eleven or more pages	83	0	0	5	100	0	0	0	0	551	100	0	100	0	0	550	49	8	65	23	5	547
Optional school/SAU question																						
A.	0										0											
B.	0										0											
C.	0										0											
D.	0										0											

E = Exceeds the Standards **M = Meets the Standards** **P = Partially Meets the Standards** **D = Does Not Meet the Standards**
N = Number

MATHEMATICS RESULTS

Test Date:	March 2009
Grade:	5
SAU:	Otis School Department
School:	Beech Hill School

ACHIEVEMENT LEVEL DEFINITIONS The quality of a student's work at each achievement level reflects progress in attaining Maine's *Learning Results: Parameters for Essential Instruction* in mathematics.		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
Exceeds the Standards – The student's work demonstrates in-depth understanding of essential concepts in mathematics, including the ability to make multiple connections among central ideas. The student's responses demonstrate the ability to synthesize information; analyze and solve difficult problems, including developing and implementing strategies, efficiently and accurately performing procedures, and recording and justifying solutions; and explain complex concepts. (Scaled Score 562–580)	2006-2007	1	10	1	20	1711	12
	2007-2008	2	17	1	14	1617	12
	2008-2009	**3**	**50**			**2119**	**15**
	Cum. Total*	6	21			5447	13
Meets the Standards – The student's work demonstrates a general understanding of essential concepts in mathematics, including the ability to make connections among central ideas. The student's responses demonstrate the ability to analyze and solve problems including developing and implementing strategies, to perform procedures, and to record and explain solutions and concepts. The student's work may contain minor errors. (Scaled Score 542–560)	2006-2007	5	50	1	20	6778	48
	2007-2008	4	33	2	29	7284	52
	2008-2009	**2**	**33**			**7046**	**50**
	Cum. Total*	11	39			21108	50
Partially Meets the Standards – The student's work demonstrates incomplete understanding of essential concepts in mathematics and inconsistent connections among central ideas. The student's responses demonstrate some ability to analyze and solve problems, and explain concepts. Problem solving strategies may be flawed, procedures performed inaccurately, methods not recorded and/or problems not completed. (Scaled Score 530–540)	2006-2007	4	40	3	60	3884	28
	2007-2008	5	42	3	43	3341	24
	2008-2009	**1**	**17**			**3193**	**23**
	Cum. Total*	10	36			10418	25
Does Not Meet the Standards – The student's work demonstrates limited understanding of essential concepts in mathematics and infrequent or inaccurate connections among central ideas. The student's responses demonstrate minimal ability to solve problems and explain concepts. Problem solving strategies and procedures are often flawed or inappropriate and there may be many omissions. (Scaled Score 500–528)	2006-2007	0	0	0	0	1683	12
	2007-2008	1	8	1	14	1778	13
	2008-2009	**0**	**0**			**1638**	**12**
	Cum. Total*	1	4			5099	12

Learning Results Content Standards	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
Mathematics Total Points	**48**	**100**	30.2	62.9	26.5	55.2	25.5	53.1
A. Number	**18**	**38**	11.3	62.8	9.5	52.8	9.8	54.4
B. Data	**10**	**21**	6.7	67.0	6.5	65.0	5.2	52.0
C. Geometry	**10**	**21**	6.2	62.0	6.0	60.0	4.7	47.0
D. Algebra	**10**	**21**	6.0	60.0	4.5	45.0	5.7	57.0

The MEA assesses students' mathematics knowledge based on questions that measure the mathematics accountability content standards contained in Maine's 2007 *Learning Results: Parameters for Essential Instruction*, which can be found at: http://www.maine.gov/education/lres/pei/index.html.

Content Standard A, Number, includes Whole Number, Rational Number, and Real Number.

Content Standard B, Data, includes Measurement and Approximation, Data Analysis, and Probability.

Content Standard C, Geometry, includes Geometric Figures, Geometric Measurement, and Transformations.

Content Standard D, Algebra, includes Symbols and Expressions, Equations and Inequalities, and Functions and Relations.

*Percentages are calculated by dividing the cumulative total of the number of students in the achievement level by the cumulative total of the number of students tested.

MATHEMATICS RESULTS
(CONTINUED)

Test Date: March 2009
Grade: 5
SAU: Otis School Department
School: Beech Hill School

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
All Students	6	3	50	2	33	1	17	0	0	554	4						13996	15	50	23	12	547
Ethnicity																						
African American/Black	0										0						385	6	35	28	30	537
American Indian or Native Alaskan	0										0						110	5	42	34	20	540
Asian or Pacific Islander	0										0						257	19	50	20	12	548
Hispanic	0										0						166	9	43	31	17	543
Caucasian/White	6	3	50	2	33	1	17	0	0	554	4						13078	15	51	23	11	547
Not Reported	0										0						0					
Identified disability																						
Yes	2										1						2307	3	32	32	33	536
No	4										3						11689	17	54	21	8	549
Current LEP																						
Yes	0										0						365	5	33	30	32	536
No	6	3	50	2	33	1	17	0	0	554	4						13631	15	51	23	11	547
Economically disadvantaged																						
Yes	1										0						5731	7	46	29	18	542
No	5	2	40	2	40	1	20	0	0	552	4						8265	21	53	19	7	550
Migrant																						
Yes	0										0						8	0	38	50	13	540
No	6	3	50	2	33	1	17	0	0	554	4						13988	15	50	23	12	547
Gender																						
Female	3										3						6889	14	51	23	12	546
Male	3										1						7107	16	50	23	11	547
Not Reported	0										0						0					
Title 1A targeted program																						
Yes	0										0						1918	3	39	36	22	539
No	6	3	50	2	33	1	17	0	0	554	4						12078	17	52	21	10	548
Gifted/talented program																						
Yes	0										0						450	64	34	2	0	564
No	6	3	50	2	33	1	17	0	0	554	4						13546	14	51	23	12	546

E = Exceeds the Standards **M = Meets the Standards** **P = Partially Meets the Standards** **D = Does Not Meet the Standards**

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. **N** = Number

MATHEMATICS RESULTS
(QUESTIONNAIRE ITEMS)

Test Date: March 2009
Grade: 5
SAU: Otis School Department
School: Beech Hill School

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%	
How much homework do you do on school nights?																						
A. none	0										0						4	8	38	26	28	539
B. less than one hour	83	3	60	2	40	0	0	0	0	558	75	33	67	0	0	553	70	15	52	23	10	547
C. one to two hours	0										0						24	15	51	23	11	547
D. more than two hours	17	0	0	0	0	1	100	0	0	536	25	0	0	100	0	536	2	9	37	24	30	539
Which of the following best describes how you rate yourself as a student in mathematics?																						
A. very good	33	2	100	0	0	0	0	0	0	565	0						34	28	50	14	8	552
B. good	17	0	0	1	100	0	0	0	0	548	25	0	100	0	0	548	45	11	54	24	10	546
C. fair	50	1	33	1	33	1	33	0	0	549	75	33	33	33	0	549	18	3	45	33	19	540
D. poor	0										0						3	1	29	41	29	535
How well do the questions that you have just been given on this MEA test match what you have learned in school about mathematics?																						
A. The questions on the test match what I have learned in mathematics class.	0										0						38	22	52	19	7	550
B. They match some of what I have learned.	67	2	50	2	50	0	0	0	0	556	50	0	100	0	0	547	48	12	53	24	11	546
C. They match just a little of what I have learned.	17	1	100	0	0	0	0	0	0	566	25	100	0	0	0	566	11	6	40	30	24	540
D. There is no match.	17	0	0	0	0	1	100	0	0	536	25	0	0	100	0	536	3	6	26	29	38	534
How difficult was the mathematics part of this test?																						
A. more difficult than my regular schoolwork	50	1	33	1	33	1	33	0	0	550	75	33	33	33	0	550	17	7	42	30	21	540
B. about the same as my regular schoolwork	33	2	100	0	0	0	0	0	0	565	0						64	15	53	23	10	547
C. easier than my regular schoolwork	17	0	0	1	100	0	0	0	0	546	25	0	100	0	0	546	19	24	49	17	10	550
On average, how many minutes a day do you spend working on mathematics in class?																						
A. less than 30 minutes	0										0						7	6	39	27	27	539
B. 30–45 minutes	0										0						28	9	49	28	15	544
C. 45–60 minutes	0										0						41	17	53	21	9	548
D. more than 60 minutes	100	3	50	2	33	1	17	0	0	554	100	25	50	25	0	549	24	21	51	20	8	549
How often do you use calculators in mathematics class?																						
A. almost every day	0										0						6	14	43	24	20	543
B. two or three days a week	67	2	50	2	50	0	0	0	0	557	75	33	67	0	0	553	24	17	52	21	10	548
C. two or three times each month	33	1	50	0	0	1	50	0	0	550	25	0	0	100	0	536	33	17	52	21	9	548
D. never or almost never	0										0						38	12	49	25	14	545
How often do you use hands-on materials in mathematics class?																						
A. almost every day	50	1	33	1	33	1	33	0	0	549	75	33	33	33	0	549	23	13	47	26	15	545
B. two or three days a week	33	1	50	1	50	0	0	0	0	556	25	0	100	0	0	548	31	17	52	21	10	548
C. two or three times each month	17	1	100	0	0	0	0	0	0	566	0						27	17	52	21	10	548
D. never or almost never	0										0						20	12	50	24	14	545
Optional school/SAU question																						
A.	0										0											
B.	0										0											
C.	0										0											
D.	0										0											

E = Exceeds the Standards **M = Meets the Standards** **P = Partially Meets the Standards** **D = Does Not Meet the Standards**
N = Number

SCIENCE RESULTS

Test Date:	March 2009
Grade:	5
SAU:	Otis School Department
School:	Beech Hill School

ACHIEVEMENT LEVEL DEFINITIONS The quality of a student's work at each achievement level reflects progress in attaining Maine's *Learning Results: Parameters for Essential Instruction* in science.		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
Exceeds the Standards – The student's work demonstrates in-depth understanding of essential concepts in science, including the ability to make multiple connections among central ideas. The student's responses demonstrate the ability to synthesize information, analyze and solve difficult problems, and explain complex concepts using evidence and proper terminology to support and communicate logical conclusions. (Scaled Score 562–580)	2008-2009*	0	0			626	4
Meets the Standards – The student's work demonstrates a general understanding of essential concepts in science, including the ability to make connections among central ideas. The student's responses demonstrate the ability to analyze and solve routine problems and explain central concepts with sufficient clarity and accuracy to demonstrate general understanding. (Scaled Score 542–560)	2008-2009*	3	50			7187	51
Partially Meets the Standards – The student's work demonstrates incomplete understanding of essential concepts in science and inconsistent connections among central ideas. The student's responses demonstrate some ability to analyze and solve problems but the quality of responses is inconsistent. Explanation of concepts may be incomplete or unclear. (Scaled Score 532–540)	2008-2009*	3	50			4364	31
Does Not Meet the Standards – The student's work demonstrates limited understanding of essential concepts in science and infrequent or inaccurate connections among central ideas. The student's responses demonstrate minimal ability to solve problems. Explanations are illogical, incomplete, or missing. There are many inaccuracies. (Scaled Score 500–530)	2008-2009*	0	0			1818	13

Learning Results Content Standards	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
Science Total Points	**48**	**100**	31.8	66.3	30.8	64.2	29.2	60.8
D. The Physical Setting	**24**	**50**	15.3	63.8	15.0	62.5	12.9	53.8
E. The Living Environment	**24**	**50**	16.5	68.8	15.8	65.8	16.3	67.9

The MEA assesses students' science knowledge based on questions that measure the science accountability content standards highlighted in Maine's 2007 *Learning Results: Parameters for Essential Instruction*, which can be found at: http://www.maine.gov/education/lres/pei/index.html.

Content Standard D. The Physical Setting
- D1 - Universe and Solar System
- D2 - Earth
- D3 - Matter and Energy
- D4 - Force and Motion

Content Standard E. The Living Environment
- E1 - Biodiversity
- E2 - Ecosystems
- E3 - Cells
- E4 - Heredity and Reproduction
- E5 - Evolution

*Standards were set for the new grade 5 science assessment in May 2009 so no historical data are available.

SCIENCE RESULTS
(CONTINUED)

Test Date: March 2009
Grade: 5
SAU: Otis School Department
School: Beech Hill School

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
All Students	6	0	0	3	50	3	50	0	0	547	4						13995	4	51	31	13	543
Ethnicity																						
African American/Black	0										0						382	2	31	32	35	535
American Indian or Native Alaskan	0										0						110	3	36	35	26	538
Asian or Pacific Islander	0										0						256	5	51	27	17	542
Hispanic	0										0						167	1	40	37	22	539
Caucasian/White	6	0	0	3	50	3	50	0	0	547	4						13080	5	52	31	12	544
Not Reported	0										0						0					
Identified disability																						
Yes	2										1						2309	2	29	39	29	536
No	4										3						11686	5	56	30	10	545
Current LEP																						
Yes	0										0						361	1	23	32	44	533
No	6	0	0	3	50	3	50	0	0	547	4						13634	5	52	31	12	544
Economically disadvantaged																						
Yes	1										0						5729	2	42	37	20	539
No	5	0	0	3	60	2	40	0	0	549	4						8266	6	58	27	8	546
Migrant																						
Yes	0										0						8	0	25	13	63	530
No	6	0	0	3	50	3	50	0	0	547	4						13987	4	51	31	13	543
Gender																						
Female	3										3						6886	4	49	33	14	542
Male	3										1						7109	5	54	29	12	544
Not Reported	0										0						0					
Title 1A targeted program																						
Yes	0										0						1917	1	31	41	28	536
No	6	0	0	3	50	3	50	0	0	547	4						12078	5	55	30	11	544
Gifted/talented program																						
Yes	0										0						450	25	72	2	1	557
No	6	0	0	3	50	3	50	0	0	547	4						13545	4	51	32	13	543

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NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. **N** = Number

SCIENCE RESULTS
(QUESTIONNAIRE ITEMS)

Test Date: March 2009
Grade: 5
SAU: Otis School Department
School: Beech Hill School

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%	
How much homework do you do on school nights?																						
A. none	0										0						4	2	37	35	25	538
B. less than one hour	83	0	0	3	60	2	40	0	0	549	75	0	67	33	0	548	70	4	53	31	12	544
C. one to two hours	0										0						24	5	51	31	12	544
D. more than two hours	17	0	0	0	0	1	100	0	0	540	25	0	0	100	0	540	2	4	39	31	26	539
Which of the following best describes how you rate yourself as a student in science?																						
A. very good	0										0						26	7	56	26	11	545
B. good	50	0	0	1	33	2	67	0	0	541	50	0	50	50	0	542	53	4	53	31	11	544
C. fair	33	0	0	2	100	0	0	0	0	560	25	0	100	0	0	560	18	2	41	39	17	540
D. poor	17	0	0	0	0	1	100	0	0	540	25	0	0	100	0	540	3	1	33	36	30	536
How well do the questions that you have just been given on this MEA test match what you have learned in school about science?																						
A. The questions on the test match what I have learned in science class.	17	0	0	0	0	1	100	0	0	540	25	0	0	100	0	540	23	5	56	28	11	544
B. They match some of what I have learned.	50	0	0	2	67	1	33	0	0	552	50	0	50	50	0	548	48	5	52	31	12	544
C. They match just a little of what I have learned.	33	0	0	1	50	1	50	0	0	544	25	0	100	0	0	548	23	4	49	33	14	543
D. There is no match.	0										0						6	3	40	34	23	539
How difficult was the science part of this test?																						
A. more difficult than my regular schoolwork	17	0	0	0	0	1	100	0	0	540	0						23	5	48	31	16	543
B. about the same as my regular schoolwork	67	0	0	3	75	1	25	0	0	551	75	0	67	33	0	548	58	4	52	32	12	543
C. easier than my regular schoolwork	17	0	0	0	0	1	100	0	0	540	25	0	0	100	0	540	19	6	53	29	11	544
How often do you have science classes?																						
A. every day	100	0	0	3	50	3	50	0	0	547	100	0	50	50	0	546	33	5	51	31	14	543
B. a few times a week	0										0						45	4	52	32	11	544
C. once a week	0										0						8	4	50	30	16	542
D. a few times a month	0										0						15	4	52	30	14	543
Which statement best describes how you learn science?																						
A. I mostly read a textbook and answer questions, and/or take notes and do assignments. I use science kits for demonstrations and experiments.	0										0						30	3	48	35	14	542
B. I work in groups to design and conduct experiments.	50	0	0	1	33	2	67	0	0	543	50	0	50	50	0	544	23	2	43	37	18	540
C. I do a combination of A and B, mostly A.	17	0	0	1	100	0	0	0	0	560	0						27	6	58	26	9	546
D. I do a combination of A and B, mostly B.	33	0	0	1	50	1	50	0	0	548	50	0	50	50	0	548	21	6	58	27	10	545
How often do you make observations and collect data in science class?																						
A. a few times a week	100	0	0	3	50	3	50	0	0	547	100	0	50	50	0	546	47	4	51	32	12	543
B. a few times a month	0										0						27	5	54	30	11	544
C. once a month	0										0						10	5	49	30	15	543
D. never or almost never	0										0						15	3	48	32	16	542
How often do you use observations and data to support your idea about science?																						
A. a few times a week	33	0	0	1	50	1	50	0	0	544	50	0	50	50	0	544	46	4	52	32	12	543
B. a few times a month	50	0	0	1	33	2	67	0	0	545	50	0	50	50	0	548	28	5	53	30	12	544
C. once a month	17	0	0	1	100	0	0	0	0	560	0						11	4	47	34	15	542
D. never or almost never	0										0						15	4	50	30	16	542
Optional school/SAU question																						
A.	0										0											
B.	0										0											
C.	0										0											
D.	0										0											

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N = Number