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:	12651796
SAU:	MSAD 74
School:	Embden Elementary 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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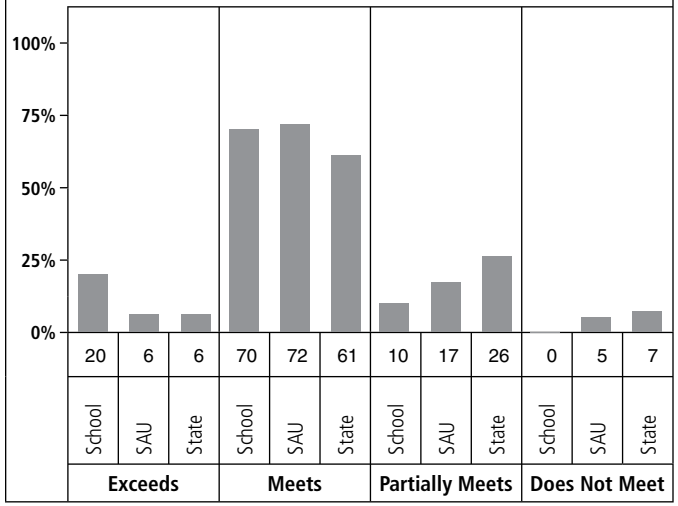
SUMMARY OF SCORES

Test Date: March 2009
Grade: 5
SAU: MSAD 74
School: Embden Elementary School

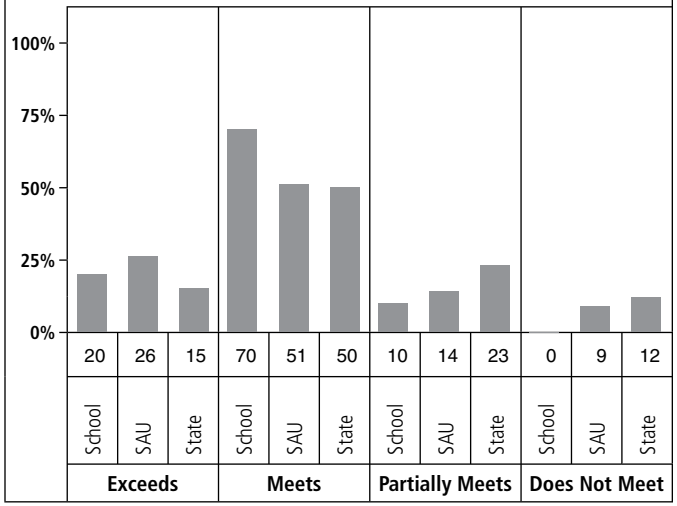
Summary of School, SAU, and State Scores

Year	Average Scaled Score		
	School	SAU	State
ELA – Reading			
2006–2007	547	543	544
2007–2008	544	542	545
2008–2009	**555**	**548**	**546**
Cum. Avg.*	549	544	545
Mathematics			
2006–2007	548	547	546
2007–2008	552	544	546
2008–2009	**551**	**552**	**547**
Cum. Avg.*	550	548	546
Science			
2008-2009 **	**547**	**544**	**543**

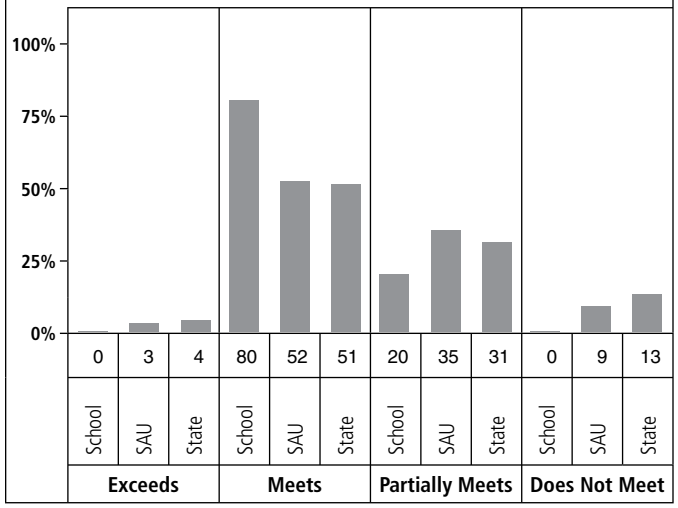
ELA – READING



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: MSAD 74
School: Embden Elementary 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	10	100	68	100	14212	100	10	100	68	100	14135	100	10	100	68	100	14144	100	10	100	68	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	1	1	259	2	0	0	1	100	253	98	0	0	1	100	258	100	0	0	1	100	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	10	100	67	99	13271	93	10	100	67	100	13212	100	10	100	67	100	13211	100	10	100	67	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	1	10	13	19	2479	17	1	100	13	100	2454	100	1	100	13	100	2455	100	1	100	13	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	4	40	40	59	5848	41	4	100	40	100	5815	100	4	100	40	100	5819	100	4	100	40	100	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	8	80	51	75	10849	76	8	80	53	78	10872	76	8	80	53	78	10976	77
Identified disability (PET/IEP)	0	0	0	0	298	3	0	0	0	0	307	3	0	0	0	0	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	2	20	14	21	3122	22	2	20	12	18	3124	22	2	20	12	18	3019	21
Identified disability (PET/IEP)	1	50	10	71	1992	64	1	50	10	83	2000	64	1	50	10	83	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	1	50	4	29	907	29	1	50	2	17	886	28	1	50	2	17	826	27
Participation through alternate assessment (PAAP)	0	0	3	4	164	1	0	0	3	4	148	1	0	0	3	4	142	1
Identified disability (PET/IEP)	0	0	3	100	164	100	0	0	3	100	148	100	0	0	3	100	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	0	0	0	0	49	0	0	0	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:	MSAD 74
School:	Embden Elementary 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	9	2	3	702	5
	2007-2008	0	0	2	3	659	5
	2008-2009	**2**	**20**	**4**	**6**	**836**	**6**
	Cum. Total*	3	10	8	4	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	7	64	36	51	7730	55
	2007-2008	6	60	32	51	8195	58
	2008-2009	**7**	**70**	**47**	**72**	**8495**	**61**
	Cum. Total*	20	65	115	58	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	3	27	27	38	4182	30
	2007-2008	4	40	19	30	3800	27
	2008-2009	**1**	**10**	**11**	**17**	**3667**	**26**
	Cum. Total*	8	26	57	29	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	6	8	1419	10
	2007-2008	0	0	10	16	1362	10
	2008-2009	**0**	**0**	**3**	**5**	**973**	**7**
	Cum. Total*	0	0	19	10	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**	36.7	76.5	32.6	67.9	30.8	64.2
A1/A2 Interconnected Elements/Literary Text	**24**	**50**	18.3	76.3	16.3	67.9	15.0	62.5
A1/A3 Interconnected Elements/Informational Text	**24**	**50**	18.4	76.7	16.3	67.9	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: MSAD 74
School: Embden Elementary 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	10	2	20	7	70	1	10	0	0	555	65	6	72	17	5	548	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										1						252	11	58	21	11	547
Hispanic	0										0						166	4	54	32	10	543
Caucasian/White	10	2	20	7	70	1	10	0	0	555	64	6	72	17	5	548	13062	6	62	26	6	546
Not Reported	0										0						0					
Identified disability																						
Yes	1										10	0	30	50	20	538	2290	0	29	47	23	537
No	9	2	22	6	67	1	11	0	0	556	55	7	80	11	2	550	11681	7	67	22	4	548
Current LEP																						
Yes	0										0						354	1	35	34	30	538
No	10	2	20	7	70	1	10	0	0	555	65	6	72	17	5	548	13617	6	61	26	6	546
Economically disadvantaged																						
Yes	4										37	3	68	22	8	545	5716	2	51	35	12	542
No	6	1	17	4	67	1	17	0	0	556	28	11	79	11	0	553	8255	9	67	20	4	548
Migrant																						
Yes	0										0						8	0	38	25	38	538
No	10	2	20	7	70	1	10	0	0	555	65	6	72	17	5	548	13963	6	61	26	7	546
Gender																						
Female	9	2	22	6	67	1	11	0	0	555	33	12	64	18	6	550	6882	8	62	24	6	547
Male	1										32	0	81	16	3	547	7089	4	60	28	8	545
Not Reported	0										0						0					
Title 1A targeted program																						
Yes	3										11	0	55	36	9	542	1914	1	41	44	14	540
No	7	2	29	5	71	0	0	0	0	559	54	7	76	13	4	549	12057	7	64	23	6	547
Gifted/talented program																						
Yes	0										0						450	26	72	2	0	557
No	10	2	20	7	70	1	10	0	0	555	65	6	72	17	5	548	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: MSAD 74
School: Embden Elementary 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										6	0	100	0	0	552	4	2	40	34	24	540
B. less than one hour	50	0	0	4	80	1	20	0	0	548	57	3	70	19	8	547	70	6	63	26	6	546
C. one to two hours	30	2	67	1	33	0	0	0	0	565	32	14	71	14	0	550	24	7	61	26	6	546
D. more than two hours	20	0	0	2	100	0	0	0	0	556	5	0	67	33	0	549	2	4	42	33	21	541
Which of the following best describes how you rate yourself as a student in reading?																						
A. very good	30	1	33	2	67	0	0	0	0	557	20	8	77	8	8	552	36	10	67	18	5	549
B. good	40	1	25	2	50	1	25	0	0	558	55	8	81	11	0	550	47	5	62	27	6	546
C. fair	30	0	0	3	100	0	0	0	0	549	22	0	57	29	14	543	15	2	47	40	12	541
D. poor	0										3	0	0	100	0	537	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.	30	1	33	2	67	0	0	0	0	559	22	7	79	14	0	549	31	9	65	20	5	548
B. They match some of what I have learned.	60	1	17	4	67	1	17	0	0	554	65	7	71	19	2	549	55	5	63	27	5	546
C. They match just a little of what I have learned.	0										9	0	50	17	33	540	10	3	45	38	14	542
D. There is no match.	10	0	0	1	100	0	0	0	0	544	5	0	100	0	0	547	3	1	31	41	27	537
How difficult was the reading part of this test?																						
A. more difficult than my regular schoolwork	30	1	33	2	67	0	0	0	0	551	14	11	56	33	0	547	16	3	49	32	15	542
B. about the same as my regular schoolwork	70	1	14	5	71	1	14	0	0	556	69	7	76	13	4	549	64	7	63	25	5	547
C. easier than my regular schoolwork	0										17	0	73	18	9	546	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.	0										11	0	29	57	14	538	10	1	33	42	24	538
B. Most of the passages were about the same as what I normally read.	90	2	22	6	67	1	11	0	0	556	63	10	73	15	2	549	52	4	61	29	6	545
C. Most of the passages were easier than what I normally read.	10	0	0	1	100	0	0	0	0	544	26	0	88	6	6	549	38	10	68	18	4	549
How much time do you spend reading at home each day?																						
A. more than one hour	20	0	0	1	50	1	50	0	0	542	18	0	67	17	17	542	20	10	64	21	5	548
B. 20 minutes to an hour	70	2	29	5	71	0	0	0	0	558	46	10	83	7	0	552	56	7	65	24	5	547
C. less than 20 minutes	10	0	0	1	100	0	0	0	0	560	15	10	60	20	10	549	10	3	52	33	12	543
D. I rarely read at home.	0										20	0	62	38	0	545	14	1	46	38	14	541
How many pages do you read in school and to complete homework assignments?																						
A. five or fewer pages	10	1	100	0	0	0	0	0	0	562	13	25	13	63	0	545	25	3	53	33	11	543
B. six to ten pages	40	0	0	4	100	0	0	0	0	555	38	0	79	21	0	548	26	6	61	26	7	546
C. eleven or more pages	50	1	20	3	60	1	20	0	0	554	50	6	81	3	9	549	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:	MSAD 74
School:	Embden Elementary 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	0	0	10	14	1711	12
	2007-2008	0	0	6	10	1617	12
	2008-2009	**2**	**20**	**17**	**26**	**2119**	**15**
	Cum. Total*	2	6	33	17	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	9	82	33	46	6778	48
	2007-2008	8	80	26	41	7284	52
	2008-2009	**7**	**70**	**33**	**51**	**7046**	**50**
	Cum. Total*	24	77	92	46	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	1	9	21	30	3884	28
	2007-2008	2	20	23	37	3341	24
	2008-2009	**1**	**10**	**9**	**14**	**3193**	**23**
	Cum. Total*	4	13	53	27	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	1	9	7	10	1683	12
	2007-2008	0	0	8	13	1778	13
	2008-2009	**0**	**0**	**6**	**9**	**1638**	**12**
	Cum. Total*	1	3	21	11	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**	28.0	58.3	28.5	59.4	25.5	53.1
A. Number	**18**	**38**	10.4	57.8	10.8	60.0	9.8	54.4
B. Data	**10**	**21**	6.6	66.0	5.6	56.0	5.2	52.0
C. Geometry	**10**	**21**	4.5	45.0	5.6	56.0	4.7	47.0
D. Algebra	**10**	**21**	6.5	65.0	6.4	64.0	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: MSAD 74
School: Embden Elementary 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	10	2	20	7	70	1	10	0	0	551	65	26	51	14	9	552	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										1						257	19	50	20	12	548
Hispanic	0										0						166	9	43	31	17	543
Caucasian/White	10	2	20	7	70	1	10	0	0	551	64	27	50	14	9	552	13078	15	51	23	11	547
Not Reported	0										0						0					
Identified disability																						
Yes	1										10	10	50	10	30	541	2307	3	32	32	33	536
No	9	1	11	7	78	1	11	0	0	549	55	29	51	15	5	553	11689	17	54	21	8	549
Current LEP																						
Yes	0										0						365	5	33	30	32	536
No	10	2	20	7	70	1	10	0	0	551	65	26	51	14	9	552	13631	15	51	23	11	547
Economically disadvantaged																						
Yes	4										37	16	54	19	11	548	5731	7	46	29	18	542
No	6	1	17	5	83	0	0	0	0	551	28	39	46	7	7	557	8265	21	53	19	7	550
Migrant																						
Yes	0										0						8	0	38	50	13	540
No	10	2	20	7	70	1	10	0	0	551	65	26	51	14	9	552	13988	15	50	23	12	547
Gender																						
Female	9	1	11	7	78	1	11	0	0	550	33	24	52	15	9	550	6889	14	51	23	12	546
Male	1										32	28	50	13	9	553	7107	16	50	23	11	547
Not Reported	0										0						0					
Title 1A targeted program																						
Yes	3										11	18	55	18	9	548	1918	3	39	36	22	539
No	7	1	14	6	86	0	0	0	0	551	54	28	50	13	9	552	12078	17	52	21	10	548
Gifted/talented program																						
Yes	0										0						450	64	34	2	0	564
No	10	2	20	7	70	1	10	0	0	551	65	26	51	14	9	552	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: MSAD 74
School: Embden Elementary 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										6	50	50	0	0	560	4	8	38	26	28	539
B. less than one hour	50	1	20	3	60	1	20	0	0	548	57	30	43	16	11	552	70	15	52	23	10	547
C. one to two hours	30	0	0	3	100	0	0	0	0	549	32	14	62	14	10	549	24	15	51	23	11	547
D. more than two hours	20	1	50	1	50	0	0	0	0	561	5	33	67	0	0	555	2	9	37	24	30	539
Which of the following best describes how you rate yourself as a student in mathematics?																						
A. very good	20	1	50	1	50	0	0	0	0	561	31	50	40	5	5	561	34	28	50	14	8	552
B. good	70	1	14	6	86	0	0	0	0	550	51	18	64	9	9	549	45	11	54	24	10	546
C. fair	0										15	10	40	30	20	543	18	3	45	33	19	540
D. poor	10	0	0	0	0	1	100	0	0	538	3	0	0	100	0	537	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.	10	1	100	0	0	0	0	0	0	564	37	42	46	8	4	557	38	22	52	19	7	550
B. They match some of what I have learned.	80	1	13	7	88	0	0	0	0	551	43	18	64	11	7	551	48	12	53	24	11	546
C. They match just a little of what I have learned.	0										17	18	36	18	27	543	11	6	40	30	24	540
D. There is no match.	10	0	0	0	0	1	100	0	0	538	3	0	0	100	0	537	3	6	26	29	38	534
How difficult was the mathematics part of this test?																						
A. more difficult than my regular schoolwork	40	0	0	3	75	1	25	0	0	546	20	0	46	31	23	540	17	7	42	30	21	540
B. about the same as my regular schoolwork	50	1	20	4	80	0	0	0	0	552	66	23	58	12	7	552	64	15	53	23	10	547
C. easier than my regular schoolwork	10	1	100	0	0	0	0	0	0	562	14	78	22	0	0	564	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	20	1	50	1	50	0	0	0	0	552	5	33	67	0	0	549	7	6	39	27	27	539
B. 30–45 minutes	40	0	0	4	100	0	0	0	0	551	31	15	55	10	20	547	28	9	49	28	15	544
C. 45–60 minutes	30	1	33	1	33	1	33	0	0	550	40	23	54	19	4	552	41	17	53	21	9	548
D. more than 60 minutes	10	0	0	1	100	0	0	0	0	550	25	44	38	13	6	557	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	20	0	0	2	100	0	0	0	0	549	18	8	75	8	8	550	24	17	52	21	10	548
C. two or three times each month	20	0	0	2	100	0	0	0	0	547	35	39	48	4	9	556	33	17	52	21	9	548
D. never or almost never	60	2	33	3	50	1	17	0	0	553	46	23	43	23	10	549	38	12	49	25	14	545
How often do you use hands-on materials in mathematics class?																						
A. almost every day	20	0	0	2	100	0	0	0	0	551	14	11	44	33	11	546	23	13	47	26	15	545
B. two or three days a week	50	1	20	4	80	0	0	0	0	552	43	14	64	7	14	549	31	17	52	21	10	548
C. two or three times each month	10	1	100	0	0	0	0	0	0	562	25	56	38	6	0	559	27	17	52	21	10	548
D. never or almost never	20	0	0	1	50	1	50	0	0	543	18	25	42	25	8	550	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:	MSAD 74
School:	Embden Elementary 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	2	3	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*	8	80	34	52	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*	2	20	23	35	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	6	9	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**	31.9	66.5	29.9	62.3	29.2	60.8
D. The Physical Setting	**24**	**50**	14.3	59.6	13.2	55.0	12.9	53.8
E. The Living Environment	**24**	**50**	17.6	73.3	16.6	69.2	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: MSAD 74
School: Embden Elementary 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	10	0	0	8	80	2	20	0	0	547	65	3	52	35	9	544	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										1						256	5	51	27	17	542
Hispanic	0										0						167	1	40	37	22	539
Caucasian/White	10	0	0	8	80	2	20	0	0	547	64	3	52	36	9	544	13080	5	52	31	12	544
Not Reported	0										0						0					
Identified disability																						
Yes	1										10	0	40	30	30	540	2309	2	29	39	29	536
No	9	0	0	7	78	2	22	0	0	546	55	4	55	36	5	545	11686	5	56	30	10	545
Current LEP																						
Yes	0										0						361	1	23	32	44	533
No	10	0	0	8	80	2	20	0	0	547	65	3	52	35	9	544	13634	5	52	31	12	544
Economically disadvantaged																						
Yes	4										37	0	41	49	11	541	5729	2	42	37	20	539
No	6	0	0	5	83	1	17	0	0	547	28	7	68	18	7	549	8266	6	58	27	8	546
Migrant																						
Yes	0										0						8	0	25	13	63	530
No	10	0	0	8	80	2	20	0	0	547	65	3	52	35	9	544	13987	4	51	31	13	543
Gender																						
Female	9	0	0	7	78	2	22	0	0	547	33	0	52	39	9	543	6886	4	49	33	14	542
Male	1										32	6	53	31	9	546	7109	5	54	29	12	544
Not Reported	0										0						0					
Title 1A targeted program																						
Yes	3										11	0	36	45	18	542	1917	1	31	41	28	536
No	7	0	0	7	100	0	0	0	0	549	54	4	56	33	7	545	12078	5	55	30	11	544
Gifted/talented program																						
Yes	0										0						450	25	72	2	1	557
No	10	0	0	8	80	2	20	0	0	547	65	3	52	35	9	544	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: MSAD 74
School: Embden Elementary 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										6	25	75	0	0	558	4	2	37	35	25	538
B. less than one hour	50	0	0	3	60	2	40	0	0	544	57	3	51	35	11	544	70	4	53	31	12	544
C. one to two hours	30	0	0	3	100	0	0	0	0	551	32	0	43	48	10	542	24	5	51	31	12	544
D. more than two hours	20	0	0	2	100	0	0	0	0	550	5	0	100	0	0	550	2	4	39	31	26	539
Which of the following best describes how you rate yourself as a student in science?																						
A. very good	40	0	0	4	100	0	0	0	0	551	15	20	60	10	10	552	26	7	56	26	11	545
B. good	60	0	0	4	67	2	33	0	0	545	55	0	53	39	8	543	53	4	53	31	11	544
C. fair	0										28	0	44	44	11	542	18	2	41	39	17	540
D. poor	0										2	0	100	0	0	550	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.	40	0	0	3	75	1	25	0	0	545	25	6	50	38	6	546	23	5	56	28	11	544
B. They match some of what I have learned.	60	0	0	5	83	1	17	0	0	549	54	3	49	37	11	544	48	5	52	31	12	544
C. They match just a little of what I have learned.	0										22	0	64	29	7	545	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	0										14	0	56	22	22	542	23	5	48	31	16	543
B. about the same as my regular schoolwork	100	0	0	8	80	2	20	0	0	547	72	2	54	35	9	544	58	4	52	32	12	543
C. easier than my regular schoolwork	0										14	11	33	56	0	547	19	6	53	29	11	544
How often do you have science classes?																						
A. every day	0										8	0	60	20	20	542	33	5	51	31	14	543
B. a few times a week	80	0	0	7	88	1	13	0	0	548	71	2	54	37	7	545	45	4	52	32	11	544
C. once a week	0										11	0	14	57	29	536	8	4	50	30	16	542
D. a few times a month	20	0	0	1	50	1	50	0	0	543	11	14	71	14	0	549	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.	30	0	0	1	33	2	67	0	0	541	49	0	53	38	9	543	30	3	48	35	14	542
B. I work in groups to design and conduct experiments.	0										12	0	25	63	13	539	23	2	43	37	18	540
C. I do a combination of A and B, mostly A.	50	0	0	5	100	0	0	0	0	547	34	9	59	27	5	548	27	6	58	26	9	546
D. I do a combination of A and B, mostly B.	20	0	0	2	100	0	0	0	0	558	5	0	67	0	33	546	21	6	58	27	10	545
How often do you make observations and collect data in science class?																						
A. a few times a week	50	0	0	4	80	1	20	0	0	546	31	0	65	30	5	545	47	4	51	32	12	543
B. a few times a month	40	0	0	4	100	0	0	0	0	551	51	3	45	42	9	544	27	5	54	30	11	544
C. once a month	0										5	33	33	33	0	553	10	5	49	30	15	543
D. never or almost never	10	0	0	0	0	1	100	0	0	538	14	0	56	22	22	541	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	60	0	0	5	83	1	17	0	0	547	38	0	60	32	8	545	46	4	52	32	12	543
B. a few times a month	30	0	0	3	100	0	0	0	0	550	37	0	58	33	8	546	28	5	53	30	12	544
C. once a month	0										9	17	17	67	0	544	11	4	47	34	15	542
D. never or almost never	10	0	0	0	0	1	100	0	0	538	15	10	40	30	20	540	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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