

Everyday Math Assessment Opportunities Grade 4

MMR = Mental Math Reflex, TLG = Teacher's Lesson Guide, SL = Study Link

Unit 1

Goal	Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (1.9 p. 57ff)	Games, S.L, Assessments TLG page:	Other
1a	B Use a compass and straightedge to construct geometric figures. Strand: Geometry	1.8	1.8	p. 12 & 13 p. 22 & 23 p. 8 #2 & 3	1.5 #6 1.7 #6 1.8 #4	Written #9 ISTEP 1 #	S.L. 1.4 #1, 3, &4 S.L. 1.8	Masters p 12 & 13 Enrichment p. 45 Extra Pract. p. 50
1b	D Identify properties of polygons. Strand: Geometry IN Std: 4.4.3; 4.4.4; 4.4.5	1.6	1.6	p. 8 # 4, 5, 6 & 7 p. 10 p. 18	1.5 #6	Written #2 Written #7 Written #8 Oral #1	S.L. 1.4 #2 S.L. 1.6 S.L. 1.8 <i>Geometry 5 Questions</i> , p. 35	Masters p. 8 <i>Reteach: Shapes, Shapes, Shapes</i> p. 29
1c	D Classify quadrangles according to side and angle properties. Strand: Geometry IN Std: 4.4.1;4.4.2;4.4.4			p. 8	1.5 #6 1.6 #4 1.7 #6 1.8 #4	Written #3 Written #7 Written #8 Oral #1	<i>Touch and Match It Quadrangles</i> p. 29 <i>Name that Polygon</i> p.41 S.L. 1.8	Masters p. 8 Masters p.14
1d	DS Name, draw, and label line segments, lines, and rays. Strand: Geometry		1.5 1.8	p. 4	1.4 #3 1.5 #4,5 1.7 #4,5	Slate #2 & 3 Written #4 Written #5	Geometry Tour p. 23	Lang. Diversity Geo <i>Poster</i> p. 23
1e	DS Name, draw, and label angles, triangles, and quadrangles. Strand: Geometry			p. 6	1.5 #2 1.7 #2	Slate #4 Written #3 Written #9	<i>Touch & Match It</i> p. 29 S.L. 1.4	Lang. Diversity Geo <i>Poster</i> p. 23
1f	DS Identify and describe right angles and parallel lines and line segments. Strand: Geometry IN Std: 4.4.1; 4.4.2; 4.4.3; 4.4.4			p. 8 #1		Slate #2 &3 Slate #4 Written #3 Written #4 Written #9		Lang. Diversity Geo <i>Poster</i> p. 23 <i>Reteach: Book of Parallel lines</i> p.35
1g	S Solve addition and subtraction facts. IN Std: 4.2.1		1.1 1.2		1.3 #2 1.4 #2 1.5 #3 1.7 #3	Slate #1		Masters p. 3 Masters p. 15

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Unit 2

Goal	Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (2.10 p. 127ff)	Games, S.L., Assessments TLG page:	Other
2a	DS Display data with a line plot, bar graph, or tally chart. Strand: Data Analysis and Probability	2.6		p. 35 p. 37 p. 42-43		Written #14 ISTEP 2	S.L. 2.6 #1	
2b	D Use the statistical landmarks median, mode, and range. Strand: Data Analysis and Probability			p. 35 p. 37 #3 c d p. 37 #4	2.6 #3 a, b, & e 2.8 #3 a, b, & e	Written #10 Written #11 Written # 12	S.L. 2.5 #5 & #6 S.L. 2.6 #2 c, d, & e S.L. 2.8 #1 c & d	Enrichmnt <i>Comparing Family</i> p. 108
2c	S Use the statistical landmarks maximum and minimum. Strand: Data Analysis and Probability			p. 35 p. 37 #3 a b	2.6 # 3 c & d 2.8 #3 c & d	Written #8 Written #9	S.L. 2.5 #3 & #4 S.L. 2.6 #2 a & b S.L. 2.8 #1 a & b	Enrichmnt <i>Comparing Family</i> p. 108
2d	S Have a successful strategy for subtracting multidigit numbers. Strand: Computation IN Std: 4.2.1; 4.2.12, 4.7.5		p. 110 2.7	p. 46 p. 47 p. 48	2.10 #6	Slate #4 Written #5 Written #6 Written #7	<i>Subtraction Target Practice</i> p. 125 S.L. 2.9 Sub. Number Story p. 126	Masters p. 24
2e	S Have a successful strategy for adding multidigit numbers. Strand: Computation 4.2.1; 4.2.12 Problem Solving 4.7.5		2.1 2.4 2.7	p. 39 p. 40 p. 44	2.1 #4 2.2 #3 2.3 #4 2.4 #4	Written #2 Written #3 Written #4 ISTEP 2 a&b	S.L. 2.7 <i>Name that Number and High-Toss Number</i> p. 113	Masters p. 23
2f	DS Read and write numerals to hundred-millions; give the value of the digits in numerals to hundred-millions. Strand: Number Sense	2.3 p. 93 2.4 2.8		p. 29 p. 32	2.3 #3 2.5 #3 2.6 #4, 6 2.7 #3,4	Slate #2 Slate #3 Written #1	S.L. 2.3 <i>High Number Toss</i> p. 95 S.L. 2.4 <i>Number Top-It</i> , p. 97	Reteach p. 92 Extra Pract. p. 92
2g	S Give equivalent names for numbers. Strand: Number Sense IN Std: 4.1.2	p. 83 2.2 2.9		p. 29	2.5 #4 2.7 #4 2.9 #4	Slate #1 Written #1	<i>Name that Number</i> p. 84 S.L. 2.2	Masters p. 16

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Unit 3

Goal	Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (3.12 p. 198ff)	Games, S.L, Assessments TLG page:	Other
3a	D Solve open sentences Strand: Algebra and Functions IN Std: 4.3.1			p. 71		Written #18-23 ISTEP 3 #6A	S.L. 3.10 #13 -16 Extra Practice p. 193 Enrichment <i>Open Sent.</i> p. 193	Masters p. 93 Masters p. 262
3b	D Understand the function and placement of parentheses in number sentences Strand: Algebra and Functions IN Std: 4.3.1, 4.3.3	3.10		p. 68	3.9 #5 3.11 #5	Written #10-17 ISTEP 3 #7A	S.L. 3.9 S.L. 3.10 #9 - 12	Masters p. 262
3c	D Determine whether number sentences are true or false. Strand: Algebra and Functions IN Std: 4.1.4	3.8 3.9	3.10	p. 65	3.9 #4 3.11 #4	Oral #1 Written # 4 - 9	S.L. 3.8 S.L. 3.9 #13 – 18 S.L. 3.10 #1-8	Masters p. 262
3d	DS Use and explain strategies for solving addition and subtraction number stories. Strand: Computation, Prob Solving IN Std: 4.1.4, 4.3.1	3.4 3.6 3.11	3.8	p. 63	3.6 #5 3.8 #5 3.9 #2 3.10 #5 3.11 #5	Written #24-27 ISTEP 3 #8A & 9A	S.L. 3.7	Masters p. 41
3e	D Use a map scale to estimate distances Strand: Problem Solving IN Std: 4.7.4			p. 60 p. 76	3.6 #4 3.8 #4 3.10 #4	Slate #2 Written#28-29	S.L. 3.6	
3f	D Solve basic division facts Strand: Computation IN Std: 4.2.3; 4.2.4	3.4 3.9	3.5 3.6	p. 57	3.6 #3 3.7 #2 3.8 # 3 3.9 #3	Slate #1 Written # 1-3 ISTEP 3 #4A & 5A	S.L. 3.2; S.L. 3.3 <i>Fact. Bingo</i> p.151 <i>Beat the Calculator</i> p. 188 <i>Baseball Multiplication</i> p. 155 <i>Fact Triangle Sort</i> p. 149	Masters p. 28
3g	DS Solve basic multiplication facts Strand: Computation IN Std: 4.2.2; 4.2.4	3.2 3.4 3.9	3.5	p. 57	3.6 #3 3.7 #2 3.8 #3	Slate #1 Written # 1-3	<i>Baseball Multiplication</i> p. 155 S.L. 3.2 S.L. 3.3	Masters p. 28 Masters p. 27
3h	S Understand the relationship between multiplication and division Strand: Computation IN Std: 4.2.3; 4.2.4, 4.3.6	3.2 3.4 3.9	3.5 3.9	p. 57	3.6 #3 3.7 #2 3.8 #3 3.9 #3	Slate #3 Written # 1-3	S.L. 3.2 S.L. 3.3 <i>Fact Triangle Sort</i> p. 149	Masters p. 28

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Unit 4

Goal	Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (4.11 p. 261ff)	Games, S.L, Assessments TLG page:	Other
4a	D Express metric measurements with decimals Strand: Number Sense					Slate #4 Written #8-9		
4b	D Convert between metric measures Strand: Number Sense IN Std: 4.5.2		4.9		4.8 #3	Slate #4 Written #8-9 Written#17-20 ISTEP 4 #6-7	S.L 4.9 #2 - 11	Masters p. 60 Masters p. 62
4c	D Read and write decimals to thousandths Strand: Number Sense IN Std: 4.1.8		4.7	p. 96		Slate #1, 4, 5 Written # 1 & 2 ISTEP 4 #4&5	S.L. 4.6	Masters p. 65 - 68
4d	D Compare and order decimals Strand: Number Sense			p. 84 p. 96 #5	p. 85 (4.2) #3 p. 90 (4.4) #3 p. 97 (4.6) #3 p 106 (4.9) #3	Written # 1 & 2 Written #6 Written #12-16	S.L. 4.3 <i>Number Top-It</i> p. 222 S.L. 4.6 # 13 - 16	
4e	D Draw and measure line segments to the nearest millimeter Strand: Measurement					Written # 8-11 ISTEP 4 #4,5		
4f	D Use personal references to estimate lengths in metric units Strand: Number Sense			p. 101	4.8 #2	Written #3 - 4	S.L. 4.9 #1	
4g	D Solve 1- and 2-place decimal addition and subtraction problems and number stories Strand: Computation IN Std: 4.2.9- 4.2.10			p. 88 p. 91 #1-4	4.5 #4 4.6 #4 & 5 4.7 #3 & 4 4.9 #4 & 5	Slate #3, #5 Written #14-15 Written #21-22 ISTEP 4 #1 2-3 8 9	S.L. 4.4	Masters p. 57 & 58
4h	S Draw and measure line segments to the nearest centimeter Strand: Measurement IN Std: 4.5.4				4.6 #2 4.9 #2	Written #7	S.L. 4.7	
4i	S Use dollars-and-cents notation Strand: Number Sense IN Std: 4.5.10					Slate #2, 3 Written #5 Written #21-22 ISTEP 4 #2 3 8 9		Masters p. 50

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Unit 5

Goal		Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (5.12 p. 345ff)	Games, S.L, Assessments TLG page:	Other
5a	B	Use exponential notation to represent powers of 10. Strand: Number Sense					Slate #5 Written # 12		
5b	D	Solve extended multiplication facts. Strand: Computation		5.2 5.3		p. 121 #3	Written #3 Written #13-14	S.L. 5.2	Masters p. 70 Masters p. 74
5c	D	Make magnitude estimates for products of multidigit numbers. Strand: Number Sense					Written #2 Written #19	S.L. 5.4	
5d	D	Solve multidigit multiplication problems. Strand: Computation	5.6		p. 138	p. 130 #4 p. 133 #4 p. 136 #4	Slate #3 Written #15-19	S.L. 5.6 S.L. 5.7	Masters p. 83
5e	D	Round whole numbers to a given place. Strand: Number Sense					Slate #4 Written #6-8	S.L. 5.10	Masters p.78 #4-9
5f	D	Read and write numbers to billions; name the values of digits in numerals to billions. Strand: Number Sense		5.9		p. 133 #2	Slate #1 & 2		
5g	S	Compare large numbers. Strand: Number Sense				p. 124 #4 p. 139 #3	Written #4 & 5 Written #9 -11	S.L. 5.11	
5h	S	Estimate sums. Strand: Computation		5.5 5.11		p. 133 #3 p. 139 #2	Written #1	S.L. 5.3	

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Unit 6

Goal	Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (6.11 p. 417ff)	Games, S.L., Assessments TLG page:	Other
6a	B Identify locations on Earth for which latitude and longitude are given; find latitude and longitude for given					Slate #2 & 3	S.L. 6.9 S.L. 6.10	Project 1
6b	D Solve whole-number division problems.	6.2				Written #8-10 ISTEP 6 #2,3		
6c	D Express the remainder of a whole-number division problem as a fraction and the answer as a mixed number.		6.7 6.10	p. 162	6.6 #4 6.8 #4 6.9 #4	Written #8-10 ISTEP 6 #1		
6d	D Interpret the remainder in division problems.		6.6			Written #12-16 ISTEP 6 #4	S.L. 6.4	
6e	D Name and locate points specified by ordered number pairs on a coordinate grid.			p. 168	6.6 #3 6.6 #5 6.9 #3	Written #11	S.L. 6.5 <i>Grid Search</i> p. 391	
6f	D Identify acute, right, obtuse, straight, and reflex angles.		6.9			Slate #1 Written #1-7		
6g	D Make turns and fractions of turns; relate turns and angles					Oral #1 & 2	S.L. 6.6	
6h	D Use a circular protractor and a half-circle protractor to measure and draw angles.				6.8 #3 6.10 #3	Written #1-7	S.L. 6.8	Masters p. 101
6i	D Solve multiplication and division number stories.	6.3	6.5		6.6 #6 6.7 #3 6.9 #6	Written #12-16	S.L. 6.3	

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Unit 7

Goal	Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (7.13 p. 576ff)	Games, S.L, Assessments TLG page:	Other
7a	B Add and subtract fractions. Strand: Computation IN Std: 4.2.8				7.5 #3 7.7 #3 7.9 #3	Written #16	S.L. 7.5 #7-10	Masters p. 106
7b	D Rename fractions with denominators of 10 and 100 as decimals. Strand: Number Sense		7.10 7.11		7.9 #4 7.10 #4 7.11 #4	Slate #2	S.L. 7.8	
7c	D Apply basic vocabulary and concepts associated with chance events. Strand: Data Analysis and Probability					Written #14-15	S.L. 7.11	
7d	D Compare and order fractions. IN Std: 4.6.3		7.11	p. 226 #5	7.10 #3 7.12 #3	Oral #1 Written #5-10	S.L. 7.9 <i>Fraction Top-It</i> p. 562	
7e	D Find equivalent fractions for given fractions. Strand: Computation		7.8	p. 211	7.10 #5 7.12 #5	Written #1-4	S.L. 7.6 SL. 7.7	
7f	S Identify the whole for fractions.. Strand: Number Sense IN Std: 4.1.5, 4.1.6		7.7			Written #11-12 Written #13	S.L. 7.10	
7g	S Identify fractional parts of a collection of objects. IN Std: 4.2.1		7.3 7.5	p. 205 p. 215 #1-4	7.5 #5 7.7 #5 7.11 #5	Slate #3 Written #13	S.L. 7.6	
7h	S Identify fractional parts of regions.	7.4	7.5	p. 205 p. 215 #5-11	7.2 #3 7.3 #3 7.4 #3	Written #11-12 Written #14 Written #16	S.L. 7.1 S.L. 7.5 #1-6 S.L. 7.6	

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Unit 8

Goal		Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (8.9 p. 637ff)	Games, S.L, Assessments TLG page:	Other
8a	B	Make and interpret scale drawings. IN Std: 4.5.3		8.6	p. 248	8.6 #5 8.8 #5	Slate #1 Written #8-11 ISTEP 7 #3,4		
8b	D	Use formulas to find areas of rectangles, parallelograms, and triangles. Strand: Measurement			p. 262	8.6 #3 8.7 #3 8.8 #3	Written #3-7 ISTEP 7 #1,2,6,7,8,9	S.L.8.6 S.L 8.7	Masters p. 130
8c	D	Find the perimeter of a polygon. Strand: Measurement IN Std: 4.5.1, 4.5.3		8.3	p. 238	8.2 #5 8.4 #5 8.5 #5	Written #1 Written #3-5 Written #8-9	S.L. 8.1	Masters p. 130
8d	DS	Find the area of a figure by counting unit squares and fractions of unit squares inside the figure. Strand: Measurement	8.5		p. 239		Written #2 Written #10-11 ISTEP 7 #1,2,10		

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Unit 9

Goal		Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (9.10 p. 710ff)	Games, S.L., Assessments TLG page:	Other
9a	B	Use an estimation strategy to divide decimals by whole numbers.					Written #12-14	S.L. 9.9	
9b	B	Use an estimation strategy to multiply decimals by whole numbers		9.9			Written #9-11	S.L. 9.8	
9c	D	Find a percent or a fraction of a number. Strand: Number Sense					Slate #1 Written #6-8	S.L. 9.2	
9d	D	Convert between "easy" fraction, (fourths, fifths, and tenths)decimals, and percents. Strand: Number Sense		9.3 9.6	p. 270	9.2 #3 9.4 #3 9.5 #3 9.7 #3	Slate #2 Written #1-3 Written #6	S.L. 9.2 <i>Fraction/Percent Concentration</i> p. 671	Masters 136-137
9e	S	Convert between hundredths-fractions, decimals, and percents. Strand: Number Sense		9.3 9.8			Slate #3 Written #1-2 ISTEP 8 #1		Masters 136-137
9f	S	Use a calculator to rename any fraction as a decimal or percent.	9.5				Written #4-5	S.L. 9.4 #7-12 S.L. 9.6 #2	

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Unit 10

Goal		Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (10.7 p. 763ff)	Games, S.L, Assessments TLG page:	Other
10a	B	Add integers.					Slate #1 Written #10	<i>Credits and Debits</i> p. 760 S.L. 10.6 #11-18	
10b	B	Rotate figures.					Written #7		Project 4
10c	D	Translate figures.					Written #6		
10d	S	Use a transparent mirror to draw the reflection of a figure.				10.1 #4 10.4 #4	Written #8-9	S.L. 10.2	Project 4
10e	S	Identify lines of symmetry, lines of reflection, reflected figures, and figures with line symmetry. Strand: Geometry	10.4			10.6 #3	Written #1-5 ISTEP 8 #2		Masters p.157 Project 4

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Unit 11

Goal		Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (11.8 p. 825ff)	Games, S.L, Assessments TLG page:	Other
11a	B	Use a formula to calculate volumes of rectangular prisms. Strand: Measurement		11.6		11.5 #4 11.7 #4	Written #7		
11b	B	Subtract positive and negative integers.		11.7		11.3 #2 11.5 #2 11.7 #2	Slate #1 Written #9	S.L. 11.6	
11c	D	Add positive and negative integers. IN Std: 4.5.8		11.7		11.3 #2 11.5 #2 11.7 #2	Slate #1 Written #8	S.L. 11.6	
11d	D	Estimate the weight of objects in ounces or grams; weight objects in ounces or grams.		11.3			Written #10		
11e	D	Solve cube stacking volume problems. Strand: Measurement				11.7 #6	Written #6	S.L. 11.5	Masters 185-186
11f	D	Describe properties of geometric solids. Strand: Geometry					Written #1-5	S.L. 11.3	Masters p.174

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Unit 12

Goal		Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (12.7 p. 874ff)	Games, S.L, Assessments TLG page:	Other
12a	D	Find unit rates.		12.3 12.4	p. 334 p. 341	12.4 #4 12.5 #2 12.6 #4	Slate #1-2 Written #2-3	S.L. 12.2 S.L. 12.3	Project 5
12b	D	Calculate unit prices to determine which product is the "better buy."				12.5 #6	Written #4-5	S.L. 12.5	Project 5
12c	D	Evaluate reasonableness of rate data.					Written #1		
12d	D	Collect and compare rate data.					Written #4-5		
12e	S	Use rate tables, if necessary, to solve rate problems. IN Std: 4.3.7		12.6	p. 334 p. 341	12.7 #2	Slate #1-2 Written #2-3 Written #6	S.L. 12.2	