

## Everyday Math Assessment Opportunities Grade 6

Masters p.R = 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 (1.12 p. 67ff)	Games, S.L., Assessments TLG page:	Other
1a	<b>B</b> <b>Interpret and construct step graphs</b> <i>EM Strand:</i> Data and Chance <i>IN Standard:</i> 6.6.1						Written #15-19	
1b	<b>D</b> <b>Interpret mystery graphs</b> <i>EM Strand:</i> Data and Chance <i>IN Standard:</i> 6.6.1			p. 6-7 (1.2)			Written #1	Enrichment p. 23
1c	<b>DS</b> <b>Use a Percent Circle to interpret circle graphs</b> <i>EM Strand:</i> Data and Chance <i>IN Standard:</i> 3.1.13						Written # 4	
1d	<b>S</b> <b>Find equivalent names for numbers</b> <i>EM Strand:</i> Numeration <i>IN Standard:</i> 5.2.2, 6.1.4, 6.1.5, 6.2.5, 6.2.10	p. 24 (1.3)		p. 9 (1.3)			Slate #1, 2 <i>Name That Number</i> (1.3) p. 28	Extra Pract. p. 28
1e	<b>S</b> <b>Identify statistical landmarks of data sets</b> <i>EM Strand:</i> Data and Chance <i>IN Standard:</i> 6.6.3						Oral #1 Written #2, 11-13 <i>Landmark Shark</i> (1.4) p. 30	
1f	<b>S</b> <b>Compute and understand the mean</b> <i>EM Strand:</i> Data and Chance <i>IN Standard:</i> 6.6.3			p. 10-11 (1.3)			Oral #1 Written #3, 9 Ongoing Assess. p.22	
1g	<b>S</b> <b>Interpret and construct broken-line graphs</b> <i>EM Strand:</i> Data and Chance <i>IN Standard:</i> 6.6.1						Written #5-8	
1h	<b>S</b> <b>Interpret and construct bar graphs</b> <i>EM Strand:</i> Data and Chance <i>IN Standard:</i> 6.6.1						Written #10-14	

## Everyday Math Assessment Opportunities Grade 6

Masters p.R = Mental Math Reflex, TLG = Teacher's Lesson Guide, SL = Study Link

### Unit 2

Goal	Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (2.12 p. 137ff)	Games, S.L, Assessments TLG page:	Other
2a	<b>B</b> <b>Translate between scientific notation &amp; standard notation, w/and w/o a calculator</b> <i>EM Strand:</i> Numeration <i>IN Standard:</i>				p. 83 (3.1) # 5 p. 111 (3.7) #3	Oral #3, 4 Slate #5, 6 Written #4, 5	<i>Exponent Ball</i> (2.7, 2.9)	
2b	<b>D</b> <b>Estimate products and multiply decimals</b> <i>EM Strand:</i> Operations and Computation <i>IN Standard:</i> 6.2.3, 6.2.9					Slate #3 Written #22-25	Alt. Assess. p. 140	Masters p. 29
2c	<b>D</b> <b>Divide two whole numbers; give the answer to a specified number of decimal places</b> <i>EM Strand:</i> Operations and Computation <i>IN Standard:</i> 6.2.2					Slate #3 Written #31		
2d	<b>D</b> <b>Estimate the quotient and divide a decimal by a whole number</b> <i>EM Strand:</i> Operations and Computation <i>IN Standard:</i> 6.2.9					Slate #3 Written #29-30	Alt. Assess. p. 140	Masters p. 29
2e	<b>D</b> <b>Multiply by positive and negative powers of 10</b> <i>EM Strand:</i> Operations and Computation; Patterns, Functions and Algebra					Slate #4	<i>Doggone Decimal</i> (2.4, 2.9)	
2f	<b>D</b> <b>Interpret number-and-word notation for large numbers</b> <i>EM Strand:</i> Numeration, Data and Chance <i>IN Standard:</i> 6.7.10				p. 83 (3.1) # 4	Written #3, 5, Written #7-10		
2g	<b>D</b> <b>Use exponential notation for small numbers</b> <i>EM Strand:</i> Numeration					Written #12, 14, 15		
2h	<b>S</b> <b>Use exponential numbers for large numbers</b> <i>EM Strand:</i> Numeration					Oral # 3 Slate #5 Written #11, 13, 16, 17		
2i	<b>DS</b> <b>Read, write, and compare numbers from thousandths to trillions</b> <i>EM Strand:</i> Numeration <i>IN Standard:</i> 5.1.1, 6.1.3					Oral # 1-4 Slate #1, 2, 5 Written #1-6		
2j	<b>S</b> <b>Add and subtract decimals</b> <i>EM Strand:</i> Operations and Computation; Measurement and Reference Frames <i>IN Standard:</i> 6.2.10, 6.5.10				p. 5 (1.1) #1	Written #18-21	Alt. Assess. p. 140	Masters p. 29
2k	<b>S</b> <b>Estimate quotients and divide whole numbers</b> <i>EM Strand:</i> Operations and Computation <i>IN Standard:</i> 6.2.9, 6.7.7					Written #26-28, 31		

## Everyday Math Assessment Opportunities Grade 6

Masters p.R = Mental Math Reflex, TLG = Teacher's Lesson Guide, SL = Study Link

### Unit 3

Goal		Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (3.11 p. 201ff)	Games, S.L, Assessments TLG page:	Other
3a	B	<b>Use variables to describe general patterns</b> <i>EM Strand:</i> Patt., Functions and Algebra <i>IN Standard:</i> 6.3.5						S.L. 3.1 S.L. 3.2	
3b	D	<b>Use a spreadsheet</b> <i>EM Strand:</i> Patt., Functions and Algebra <i>IN Standard:</i> 6.3.9						S.L. 3.7 Spreadsheet Scramble	
3c	D	<b>Interpret mystery graphs</b> <i>EM Strand:</i> Data and Chance <i>IN Standard:</i> 6.6.1							
3d	D	<b>Write algebraic expressions to represent situations</b> <i>EM Strand:</i> Patt., Functions and Algebra <i>IN Standard:</i> 5.3.2, 6.3.2						S.L. 3.3 S.L. 3.4 S.L. 3.5 S.L. 3.6 S.L. 3.8 #11	
3e	D	<b>Evaluate algebraic expressions and formulas</b> <i>EM Strand:</i> Patt., Functions and Algebra <i>IN Standard:</i> 5.3.2				p. 111 (3.7) #3, 5			
3f	S	<b>Mentally add 1-digit positive and negative numbers</b> <i>EM Strand:</i> Operations and Computation <i>IN Standard:</i> 6.2.1						S.L. 3.9 # 1-10	
3g	S	<b>Represent rates with formulas, tables and graphs</b> <i>EM Strand:</i> Patt., Functions and Algebra; Data and Chance <i>IN Standard:</i> 6.3.8			p. 120-121 (3.10)			S.L. 3.8 S.L. 3.9 S.L. 3.10	
3h	S	<b>Convert between fractions and mixed numbers</b> <i>EM Strand:</i> Operations and Computation <i>IN Standard:</i> 6.1.3			p. 110 (3.7)	p. 83 (3.1) # 1 p. 87 (3.2) # 1 p. 111 (3.7) #1		Ongoing Assess. p. 185	
3i	S	<b>Find the least common multiple of two numbers</b> <i>EM Strand:</i> Numeration; Oper & Comp. <i>IN Standard:</i> 6.1.7							
3j	S	<b>Find the greatest common factor of two numbers</b> <i>EM Strand:</i> Numeration; Oper & Comp. <i>IN Standard:</i> 6.1.7				p. 114 (3.8) #1			

## Everyday Math Assessment Opportunities Grade 6

Masters p.R = Mental Math Reflex, TLG = Teacher's Lesson Guide, SL = Study Link

### Unit 4

Goal		Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (4.12 p. 272ff)	Games, S.L, Assessments TLG page:	Other
4a	D	<b>Represent data with circle graphs.</b> <i>EM Strand:</i> Data and Chance <i>IN Standard:</i> 3.1.13							
4b	D	<b>Multiply fractions and mixed numbers</b> <i>EM Strand:</i> Oper. & Comp; Numeration <i>IN Standard:</i> 5.2.4, 6.2.4							
4c	D	<b>Use an algorithm to add and subtract mixed numbers having fractions with unlike denominators</b> <i>EM Strand:</i> Oper. & Comp; Numeration <i>IN Standard:</i> 5.2.2, 6.1.7							
4d	D	<b>Use an algorithm to subtract mixed numbers having fractions with like denominators</b> <i>EM Strand:</i> Oper. & Comp; Numeration <i>IN Standard:</i> 5.2.2, 6.1.7							
4e	D	<b>Find a percent of a number</b> <i>EM Strand:</i> Oper. & Comp; Numeration <i>IN Standard:</i> 5.1.4, 6.2.8							
4f	S	<b>Use an algorithm to add mixed numbers having fractions with like denominators</b> <i>EM Strand:</i> Oper. & Comp; Numeration <i>IN Standard:</i> 5.2.2, 6.1.7							
4g	S	<b>Use an algorithm to add and subtract fractions with like and unlike denominators</b> <i>EM Strand:</i> Oper. & Comp; Numeration <i>IN Standard:</i> 5.2.2, 6.1.7							
4h	S	<b>Compare and order fractions</b> <i>EM Strand:</i> Numeration <i>IN Standard:</i> 6.1.7							
4i	S	<b>Convert between fractions, mixed numbers, decimals, and percents</b> <i>EM Strand:</i> Numeration <i>IN Standard:</i> 6.1.4, 6.1.5							
4j	S	<b>Write fractions and mixed numbers in simplest form</b> <i>EM Strand:</i> Numeration <i>IN Standard:</i> 6.1.7							

## Everyday Math Assessment Opportunities Grade 6

Masters p.R = Mental Math Reflex, TLG = Teacher's Lesson Guide, SL = Study Link

### Unit 5

Goal		Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (5.11 p. 341ff)	Games, S.L, Assessments TLG page:	Other
5a	D	<b>Apply properties of supplementary angles and vertical angles</b> <i>EM Strand:</i> Geometry, Meas. & Ref Frames <i>IN Standard:</i> 6.4.1, 6.4.2							
5b	D	<b>Apply properties of angles formed by two parallel lines and a transversal</b> <i>EM Strand:</i> Geometry <i>IN Standard:</i> 6.4.1, 6.4.2							
5c	D	<b>Apply properties of angles of parallelograms</b> <i>EM Strand:</i> Geometry, Meas. & Ref Frames <i>IN Standard:</i> 6.4.4							
5d	D	<b>Calculate the degree measure of each sector in a circle graph and use a protractor to construct the graph</b> <i>EM Strand:</i> Geometry, Meas. & Ref Frames, Data and Chance <i>IN Standard:</i>							
5e	D	<b>Use a compass and straightedge to construct geometric figures</b> <i>EM Strand:</i> Geometry <i>IN Standard:</i> 5.4.1							
5f	DS	<b>Apply properties of sums of angle measures of triangles and quadrangles</b> <i>EM Strand:</i> Geometry, Meas. & Ref Frames <i>IN Standard:</i> 6.4.1, 6.4.2, 6.4.4							
5g	S	<b>Translate figures on a coordinate grid</b> <i>EM Strand:</i> Geometry <i>IN Standard:</i> 6.4.6							
5h	S	<b>Plot ordered number pairs in four quadrants; use ordered number pairs to name points in four quadrants</b> <i>EM Strand:</i> Geometry <i>IN Standard:</i> 6.3.7							
5i	S	<b>Draw or form a figure congruent to a given figure</b> <i>EM Strand:</i> Geometry <i>IN Standard:</i> 6.4.3							
5j	S	<b>Classify angles</b> <i>EM Strand:</i> Geometry <i>IN Standard:</i> 6.4.1							
5k	S	<b>Measure and draw angles using a protractor</b> <i>EM Strand:</i> Geometry, Meas. & Ref Frames <i>IN Standard:</i> 5.4.1, 6.4.1							

## Everyday Math Assessment Opportunities Grade 6

Masters p.R = Mental Math Reflex, TLG = Teacher's Lesson Guide, SL = Study Link

### Unit 6

Goal	Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (6.13 p. 523ff)	Games, S.L, Assessments TLG page:	Other
6a	<b>B</b> <b>Solve and graph solutions for inequalities</b> <i>EM Strand:</i> Patt., Functions, and Algebra <i>IN Standard:</i> 6.3.1		457 (6.2)	247-48 (6.12)		Written # #53, 55	<i>Solution Search game</i>	Masters p. 111 (6.12)
6b	<b>D</b> <b>Solve equations</b> <i>EM Strand:</i> Operations and Computation Patterns, Functions, and Algebra <i>IN Standard:</i> 6.3.1	482 (6.6) 493 (6.8) 500 (6.9) 512 (6.11)	481 (6.6) 487 (6.7)	233 (6.8) 244-45 (6.11)		Slate # #4 Written # #39-52	<i>Algebra Election game (6.7)</i> SL 6.8 <i>Broken Calculator game (6.9)</i> SL 6.11; SL 6.12 #1-4, 7	Masters p. 104 (6.8) Masters p. 109 (6.11)
6c	<b>D</b> <b>Use an algorithm to add, subtract, multiply, and divide fractions and mixed numbers</b> <i>EM Strand:</i> Operations and Computation <i>IN Standard:</i> 6.2.4		475 (6.5) 481 (6.6) 507 (6.10) 518 (6.12)	208 (6.1) 212 -13 (6.2) 228 (6.6)	6.2 #3 6.4 #3 6.5 #1, 5 6.6 #1 6.7 #1, 5 6.8 #1 6.10 #1 6.13 #2,4,5	Oral # #1 Slate # #2 Written # #1,8,9, 20-29	SL 6.1 SL 6.2 SL 6.4	Masters p. 93 (6.2) Masters p. 98 #5,6,10 (6.5)
6d	<b>DS</b> <b>Find opposites and reciprocals of numbers</b> <i>EM Strand:</i> Numeration <i>IN Standard:</i>	463 (6.3)		209 (6.1) 215 (6.3) 223 #13 (6.5)	6.2 #4 6.4 #4	Slate # #1 Written # #18,19, 23		Masters p. 92 (6.1)
6e	<b>DS</b> <b>Add, subtract, multiply, and divide integers</b> <i>EM Strand:</i> Operations and Computation Patterns, Functions, and Algebra <i>IN Standard:</i> 6.2.1, 6.2.2	482 (6.6)	470 (6.4) 481 (6.6)	216 (6.3) 219 -20(6.4) 249 (6.12)	6.6 #3 6.8 #3 6.9 #2 6.11 #2	Written # #4-7, 10-20, 25, 33	SL 6.3 <i>Credits/Debits game (6.3)</i> <i>Top-It game (+/- #s) (6.4)</i> SL 6.5	Masters p. 95 (6.3) Masters p. 96 (6.4)
6f	<b>DS</b> <b>Understand and apply order of operations to evaluate expressions and solve number sentences</b> <i>EM Strand:</i> Operations and Computation <i>IN Standard:</i> 6.3.3, 6.3.6	482 (6.6)	481 (6.6)	226-27 (6.6) 230 (6.7)	6.9 #5	Written # #1, 31-38	SL 6.6; SL 6.7 <i>Name That Number game (6.8)</i> SL 6.12 #5,6	Masters p. 99 (6.6)
6g	<b>DS</b> <b>Determine whether number sentences are true or false</b> <i>EM Strand:</i> Operations and Computation Patterns, Functions, and Algebra <i>IN Standard:</i> 6.2.1, 6.2.2, 6.2.3, 6.7.9			230-31 (6.7) 247 (6.12)	6.11 #5	Written # #1	SL 6.7	Masters p. 97 (6.5)
6h	<b>S</b> <b>Compare and order integers</b> <i>EM Strand:</i> Numeration <i>IN Standard:</i>		463 (6.3) 476 (6.5)			Written # #2-7	<i>Top-It game (+/- #s) (6.4)</i>	

## Everyday Math Assessment Opportunities Grade 6

Masters p.R = Mental Math Reflex, TLG = Teacher's Lesson Guide, SL = Study Link

### Unit 6 Continued

Goal		Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (6.13 p. 523ff)	Games, S.L, Assessments TLG page:	Other
6i	S	<b>Understand and apply the identity property for multiplication</b> <i>EM Strand:</i> Patt., Functions, and Algebra <i>IN Standard:</i> 6.3.6			207 (6.1) 218 (6.4)		Written # #53, 55		
6j	S	<b>Understand and apply the commutative property for addition and multiplication</b> <i>EM Strand:</i> Patt., Functions, and Algebra <i>IN Standard:</i> 6.3.6			223 (6.5)		Slate # #4 Written # #39- 52		
6k	S	<b>Understand and apply the associative property for addition and multiplication</b> <i>EM Strand:</i> Patt., Functions, and Algebra <i>IN Standard:</i> 6.3.6			223 (6.5)		Oral # #1 Slate # #2 Written # #1,8,9, 20-29		

## Everyday Math Assessment Opportunities Grade 6

Masters p.R = Mental Math Reflex, TLG = Teacher's Lesson Guide, SL = Study Link

### Unit 7

Goal		Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (7.9 p. 585ff)	Games, S.L, Assessments TLG page:	Other
7a	B	<b>Understand and use tree diagrams to solve problems</b> <i>EM Strand:</i> Data and Chance <i>IN Standard:</i> 6.6.4							
7b	D	<b>Construct and interpret Venn diagrams</b> <i>EM Strand:</i> Data and Chance <i>IN Standard:</i> 6.6.4							
7c	DS	<b>Calculate probability in simple situations</b> <i>EM Strand:</i> Data and Chance <i>IN Standard:</i> 6.6.6							
7d	DS	<b>Understand what constitutes a fair game</b> <i>EM Strand:</i> Data and Chance <i>IN Standard:</i> 6.6.5							
7e	DS	<b>Understand and apply the concept of random numbers to probability situations</b> <i>EM Strand:</i> Data and Chance <i>IN Standard:</i>							
7f	S	<b>Solve "fraction-of-a-fraction" problems</b> <i>EM Strand:</i> Operations & Computation <i>IN Standard:</i> 6.2.4		p. 661 (7.3)					
7g	S	<b>Understand how sample size affects results</b> <i>EM Strand:</i> Data and Chance <i>IN Standard:</i>							

## Everyday Math Assessment Opportunities Grade 6

Masters p.R = Mental Math Reflex, TLG = Teacher’s Lesson Guide, SL = Study Link

### Unit 8

Goal		Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (8.13 p. 680ff)	Games, S.L, Assessments TLG page:	Other
8a	D	<b>Write open proportions to model problems</b> <i>EM Strand:</i> Operations and Computation <i>IN Standard:</i> 6.2.6, 6.2.7							
8b	D	<b>Solve percent problems</b> <i>EM Strand:</i> Operations and Computation <i>IN Standard:</i> 6.2.8							
8c	D	<b>Solve problems that involve a size-change factor</b> <i>EM Strand:</i> Operations and Computation <i>IN Standard:</i> 6.2.6, 6.2.7							
8d	DS	<b>Use cross multiplication to solve open proportions</b> <i>EM Strand:</i> Patt., Functions, and Algebra <i>IN Standard:</i> 6.2.7							
8e	DS	<b>Solve rate number stories</b> <i>EM Strand:</i> Patt., Functions, and Algebra <i>IN Standard:</i> 6.2.7							
8f	DS	<b>Solve ratio number stories</b> <i>EM Strand:</i> Operations and Computation; Numeration <i>IN Standard:</i> 6.2.6, 6.2.7							
8g	DS	<b>Estimate equivalent percents for fractions</b> <i>EM Strand:</i> Operations and Computation <i>IN Standard:</i> 6.2.9							
8h	DS	<b>Solve division problems involving decimals</b> <i>EM Strand:</i> Operations and Computation <i>IN Standard:</i> 6.2.3							
8i	S	<b>Use rate tables to solve problems</b> <i>EM Strand:</i> Patt., Functions, and Algebra <i>IN Standard:</i> 6.2.7							

## Everyday Math Assessment Opportunities Grade 6

Masters p.R = Mental Math Reflex, TLG = Teacher’s Lesson Guide, SL = Study Link

### Unit 9

Goal		Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (9.14 p. 773ff)	Games, S.L, Assessments TLG page:	Other
9a	D	<b>Simplify expressions and equations with parentheses</b> <i>EM Strand:</i> Operations and Computation; Patterns, Functions, and Algebra <i>IN Standard:</i> 6.3.3							
9b	DS	<b>Apply the distributive property</b> <i>EM Strand:</i> Patt., Functions, and Algebra <i>IN Standard:</i> 6.3.6							
9c	DS	<b>Combine like terms to simplify expressions and equations.</b> <i>EM Strand:</i> Patt., Functions, and Algebra <i>IN Standard:</i>							
9d	DS	<b>Solve equations</b> <i>EM Strand:</i> Patt., Functions, and Algebra <i>IN Standard:</i> 6.3.1							
9e	DS	<b>Write and identify equivalent expressions and equivalent equations</b> <i>EM Strand:</i> Patt., Functions, and Algebra <i>IN Standard:</i> 6.3.1							
9f	DS	<b>Write and solve equations that represent problem situations</b> <i>EM Strand:</i> Patt., Functions, and Algebra <i>IN Standard:</i>							
9g	DS	<b>Use formulas to solve problems</b> <i>EM Strand:</i> Patt., Functions, and Algebra <i>IN Standard:</i> 6.3.2							
9h	S	<b>Evaluate expressions and formulas</b> <i>EM Strand:</i> Patt., Functions, and Algebra <i>IN Standard:</i> 6.3.3							

## Everyday Math Assessment Opportunities Grade 6

Masters p.R = Mental Math Reflex, TLG = Teacher’s Lesson Guide, SL = Study Link

### 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. 823ff)	Games, S.L, Assessments TLG page:	Other
10a	B	<b>Identify and use notation for semiregular tessellations</b> <i>EM Strand:</i> Geometry <i>IN Standard:</i>							
10b	B	<b>Identify regular tessellations</b> <i>EM Strand:</i> Geometry <i>IN Standard:</i>							
10c	B	<b>Create nonpolygonal, translation tessellations</b> <i>EM Strand:</i> Geometry <i>IN Standard:</i> 6.4.6							
10d	B	<b>Explore rotation and point symmetry</b> <i>EM Strand:</i> Geometry <i>IN Standard:</i>							
10e	B	<b>Discover properties of solids</b> <i>EM Strand:</i> Geometry <i>IN Standard:</i>							
10f	B	<b>Perform topological transformations</b> <i>EM Strand:</i> Geometry <i>IN Standard:</i>							