

Houston County School System Formative Assessments Pacing Guide for 4th Grade Math Standards

AL COS Standards	Dates Taught	Dates Tested	Vocabulary	Resources	% Mastery	Names of Students W/Non-Mastery
<p>1. Demonstrate concepts of number sense by comparing and ordering decimals through the hundredths place and whole numbers to 999,999.</p> <ul style="list-style-type: none"> ○ Writing a whole number in expanded notation through the hundred-thousands place Example: $623,805 = 600,000 + 20,000 + 3,000 + 800 + 5$ ○ Writing a number in expanded notation through the hundredths place ○ Determining the place value of a digit in a whole number through the hundred-thousands place and in a decimal through the hundredths place 	<p>Aug. Sept.</p>	<p>Oct.</p>	<p>larger greater than less than equal to symbols or words first, second, third greatest to least least to greatest longest to shortest shortest to longest tables charts money value</p>	<p>Saxon Math Lessons 4, 7, 16, 33, 34, 42, 1, 54 102, 91, 117 <u>Inv.</u> 1, 4A ARMT Coach Lessons-1-3 Item Specs.</p>		

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2. Write money amounts in words and in dollar-and-cent notation. <ul style="list-style-type: none"> Using coins and bills to make change up to \$100 Identifying equivalent sums of money 	Aug.	Oct.	same as value numerical form altogether	Saxon Lessons 4, 8, 13, 15, 22, 35 <u>INV.</u> 4 Item Specs. ARMT Coach Lesson- 9		
3. Write improper fractions as mixed numbers and mixed numbers as improper fractions. <ul style="list-style-type: none"> Using a number line to compare and order fractions and mixed numbers Simplifying fractions using parallel number lines Comparing fractions with uncommon denominators using the symbols $<$, $>$, and $=$ Writing equivalent forms of fractions 	Jan./Feb.	Feb.	denominator numerator equivalent same value mixed numbers	Saxon Lessons 35, 37, 89, 109, 104, 114 <u>INV.</u> 9 Item Specs. ARMT Coach Lesson- 5		

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4. Solve problems, including word problems, involving addition and subtraction of fractions	Jan./Feb.	Feb.	denominators How much	Saxon Math lessons-89, 104, 112,		

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with common denominators.			more	114, 119, 120 ARMT Coach Lesson- 10 Item Specs.		
<p>5. Round whole numbers to the nearest ten, hundred, or thousand and decimals to the nearest tenth.</p> <p>Examples: whole number—determining a distance of 4,326 miles between Birmingham, Alabama, and London, England, rounded to the nearest hundred is 4,300 miles</p> <p> decimal—determining a time of 5.46 seconds run in a 40-yard dash rounded to the nearest tenth is 5.5 seconds</p>	Sept.	Dec.	rounded nearer ten nearer tenth nearer thousand	Saxon Math Lessons-20, 42, 54, 102, 103, 117 ARMT Coach Lesson-4 Item Specs.		

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<p>7. Solve problems, including word problems, involving multiplication and division of whole numbers through two-digit multipliers and one-digit divisors.</p> <ul style="list-style-type: none"> • Estimating products and quotients of whole numbers using various strategies, including rounding and compatible numbers • Identifying information needed to determine an operation to solve a problem • Demonstrating computational fluency in multiplication and division facts with products through 144 and quotients with dividends through 144 using horizontal and vertical forms • Applying divisibility rules for 3, 4, 6, and 9 • Identifying prime and composite numbers through 50 • Listing all factors of natural numbers through 50 • Recognizing that some integers can be expressed as a product of factors in more than one way • Using mental computation strategies to solve multiplication problems with factors that are multiples of 10 • Using mental computation strategies to solve division problems with dividends and divisors that are multiples of 10 	Jan.	Feb.	remainders total equal number separate equally exactly	ARMT Coach 14-17 Item Specs. Saxon Lessons- 1, 2, 5, 6, 11, 12, 13, 14, 16, 25, 28, 29, 32, 38, 41, 45, 46, 61, 62, 64, 65, 67, 68, 71, 76, 80, 83, 85, 86, 87, 88, 90, 94, 101, 105, 108, 110, 113, 118		

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8. Recognize equivalent forms of fractions and decimals.	Oct. for fractions Dec. for decimals	Dec. Dec.	equivalent decimal Fraction of a dollar Meaning of a box	Saxon Math Lessons 112, 114, 119, 120 Item Specs. ARMT Coach Lessons 5, 8, 9		
9. Write number sentences for word problems that involve multiplication or division. <ul style="list-style-type: none"> • Applying commutative, associative, and identity properties of multiplication to solve problems • Identifying a rule when given a pattern involving multiplication or division 	Jan.	Feb.	used to determine Per means one	Saxon Lessons 57, 62 Inv. 8 ARMT Coach Lesson 18 Item Specs,		

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10. Complete addition and subtraction number sentences with a missing addend or subtrahend. <ul style="list-style-type: none"> • Applying commutative, associative, and identity properties of addition to solve problems • Identifying a rule when given a pattern involving addition or subtraction 	Aug./Sept	Dec.	What Box means	Saxon ARMT Coach Lessons 1, 11, 25, 31, 49, 52, 61 Item Specs.		
11. Identify triangles, quadrilaterals, pentagons, hexagons, heptagons, and octagons based on the number of sides, angles, and vertices. <ul style="list-style-type: none"> • Determining results of a reflection, rotation, or translation of a given shape • Identifying straight angles • Estimating angle measures using 45°, 90°, 180°, 270°, or 360° as referents • Identifying figures that have rotational symmetry • Identifying congruent polygons 	Jan.	Feb.	best represents could not be vertices angles sides	Saxon Lessons 23, 45, 63, 78, 81, 92, 98, 99, 100 ARMT Coach Lesson 20-22		

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12. Find locations on a map or grid using Quadrant I ordered pairs. <ul style="list-style-type: none"> • Identifying components of the Cartesian plane, including the x-axis, y-axis, origin, and quadrants 	Nov./Dec.	Dec.	best represents coordinates	Saxon Inv. 8 ARMT Coach Lesson 23 Item Specs.		
13. Calculate elapsed time in hours and minutes.	Sept./Oct.	Oct.	total time	T-chart (teacher created) Saxon Lessons 5, 19, 27, 54, 101 Item Specs.		

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14. Measure length, width, weight, mass, volume, and capacity using metric and customary units, and temperature using Celsius and Fahrenheit. <ul style="list-style-type: none"> • Estimating perimeter and area of irregular shapes using unit squares and grid paper • Identifying a larger unit of measure equivalent to a smaller unit of measure within the same customary or metric system 	Sept./Oct.	Oct.	closest nearer balanced mass nearer quarter-inch best represents	Saxon Lessons-39, 40, 43, 48, 51, 77, 103, 111, 69, 102, 18, 101 Inv. 2, 3, 7, 11 ARMT Coach 24-27 Item Specs.		
15. Represent categorical data using tables and graphs, including bar graphs and line plots. <ul style="list-style-type: none"> • Collecting data using observations, surveys, or experiments 	Jan.	Feb.	Best represents	Saxon Lesson 3, 36, 72, 82, 83 Inv. 6, 7, 8, 10 ARMT Coach Lessons-29, 30 Item Specs.		

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16. Determine outcomes of simple events as <i>likely, unlikely, certain, equally likely, or impossible</i> . <ul style="list-style-type: none"> Verifying predictions by testing possible outcomes of a simple event 	Jan.	Feb.	likely unlikely certain equally like impossible	Saxon Inv. 10 ARMT Coach Lesson 31 Item Specs.		
17. Represent numerical data using tables and graphs, including bar graphs and line graphs. <ul style="list-style-type: none"> Locating the median from graphs or data sets 	Jan.	Feb.	Best represents	Saxon Lessons 3, 36, 72, 82, 83 ARMT Coach Lessons 29, 30 Item Specs.		