

Houston County School District

Formative Assessments Pacing Guide for 5th Grade Math Standards

| AL COS Standards | Dates Introduced | Dates Tested | Vocabulary | Resources | % Mastery | Names of Students W/Non-Mastery |
|---|-----------------------------|-------------------------------|--|---|-----------|---------------------------------|
| Numbers and Operations | | | | | | |
| <p>1. Demonstrate number sense by comparing, ordering, rounding, and expanding whole numbers through millions and decimals to thousandths.</p> <p>ARMT Blueprint:</p> <ul style="list-style-type: none"> Multiple Choice- 4 items <p>Additional Minimum Required Content:</p> <ul style="list-style-type: none"> Relating percents to parts out of 100 by using equivalent fractions and decimals Determining the value of a digit to thousandths | <p>August September</p> | <p>Oct. Dec. Feb.</p> | <p>greater than greatest less than least (symbols) expanded notation expanded form value</p> <p>themathworksheetsite.com www.mathfactcafe.com www.homeschoolhelper.com</p> | <p>Saxon <u>Lessons</u> 1, 3, 4, 7, 52, 15, 17-19, 68, 48, 64, 10, 17, 20, 22, 67, 70, 93, 13, 100, 106, 12, 23, 24, 38, 26-29, 51, 39, 59, 78, 42, 54-56, 5, 69, 71, 14, 92, 73, (See TE for continued list) Inv. 2-3 ARMT Coach <u>Lessons 1, 2, 3, 4, 8, 9</u> IXL Item Specs Multiplication.com</p> | | |

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| <p>2. Solve problems involving basic operations on whole numbers, including addition, and subtraction of seven-digit numbers, multiplication with two-digit multipliers, and division with two-digit numbers.</p> <p>ARMT Blueprint:</p> <ul style="list-style-type: none"> • Multiple Choice- 2 items • Grid- 1 item • Open-ended- 1 item <p>Additional Minimum Required Content:</p> <ul style="list-style-type: none"> • Estimating products and quotients • Determining divisibility by 2,3,4,5,6,9, and 10 • Demonstrating computational fluency with addition, subtraction, multiplication, and division of whole numbers | August/ September | October December February | NH (not here) grid possible at least prime composite | <p>Saxon <u>Lessons</u> <u>51, 92, 45,</u> <u>46, 47, 37</u></p> <p>ARMT Coach <u>Lessons</u> <u>11, 12, 13, 14,</u> <u>15, 16</u></p> <p>Item Specs.</p> | | |

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| <p>3. Solve word problems that involve decimals, fractions, or money.</p> <p>ARMT Blueprint:</p> <ul style="list-style-type: none"> • Multiple Choice- 6 items • Open-ended – 1 item <p>Additional Minimum Required Content:</p> <ul style="list-style-type: none"> • Solving word problems involving elapsed time | <p>August September</p> | <p>October December February</p> | <p>Simplest form Lowest form reduced</p> | <p>Saxon 49 <u>Inv.</u> 1</p> <p>Item Specs.</p> <p>ARMT Coach <u>Lessons 17,</u> <u>18, 19</u></p> | | |

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| <p>4. Determine the sum and difference of fractions with common and uncommon denominators.</p> <p>ARMT Blueprint:</p> <ul style="list-style-type: none"> • Multiple Choice- 4 items • Grid- 2 items <p>Additional Minimum Required Content:</p> <ul style="list-style-type: none"> • Changing mixed numbers to improper fractions • Solving problems involving addition and subtraction of fractions with common and uncommon denominators • Using least common multiples • Estimating sums and differences of fractions | December January | February | real-life situations reducing fractions mixed numbers LCM GCF grid | Saxon <u>Lessons</u> <u>49, 112, 116</u> ARMT Coach <u>Lessons 5, 6,</u> <u>7, 17, 18</u> Item Specs | | |
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| <p>5. Identify numbers less than zero by extending the number line. EX. Identifying negative temperature (below 0°) on a thermometer.</p> <p>ARMT Blueprint:</p> <ul style="list-style-type: none"> • Multiple Choice- 3 items | August September | October | Negative numbers Thermometer | Saxon <u>Lesson</u> <u>27</u> ARMT Coach <u>Lesson 10</u> Item Specs | | |

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| Algebra | | | | | | |
| <p>6. Demonstrate the commutative, associative, and identify properties of addition and multiplication of whole numbers.</p> <p>ARMT Blueprint:</p> <ul style="list-style-type: none"> Multiple Choice-4 items | <p>August September</p> | <p>October</p> | <p>commutative associative identity distributive properties</p> | <p>Saxon <u>Lessons</u> <u>15, 24</u></p> <p>ARMT Coach <u>Lesson 20</u></p> <p>Item Specs</p> | | |
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| <p>7. Write a number sentence for a problem expressed in words.</p> <p>ARMT Blueprint:</p> <ul style="list-style-type: none"> Multiple Choice- 4 items | <p>December</p> | <p>February</p> | <p>Number sentence combined</p> | <p>Saxon <u>Lesson</u> <u>69</u></p> <p>ARMT Coach <u>Lesson 21</u></p> <p>Item Specs</p> | | |

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| Geometry | | | | | | |
| 8. Identify regular polygons and congruent polygons. ARMT Blueprint: <ul style="list-style-type: none"> • Multiple Choice- 3 items Additional Minimum Required Content: <ul style="list-style-type: none"> • Identifying angles as right, obtuse, acute, or straight • Classifying triangles as equilateral, isosceles, or scalene • Identifying figures that have rotational symmetry • Predicting the results of a flip (reflection), turn (rotation), or slide (translation) | October November | December | congruent polygons equilateral isosceles scalene symmetry right angle | <u>Saxon Lessons 53, 31, 36, 88</u> Item Specs. ARMT Coach <u>Lessons 22, 23, 24, 26</u> | | |
| 9. Identify components of the Cartesian plane, including the x-axis, y-axis, origin, and quadrants. ARMT Blueprint: <ul style="list-style-type: none"> • Multiple Choice- 2 items | October November | December February | x-axis y-axis origin quadrants ordered pairs | <u>Inv. 8</u> Item Specs. ARMT Coach <u>Lesson 27</u> | | |

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| Geometry | | | | | | |
| 10. Identify the center, radius, and diameter of a circle. ARMT Blueprint: <ul style="list-style-type: none"> • Multiple Choice- 2 items | November December | February | center radius diameter chord segments | Saxon <u>Lesson 53</u> Item Specs. ARMT Coach <u>Lesson 25</u> | | |
| 11. Estimate perimeter and area of irregular shapes using squares and grid paper. ARMT Blueprint: <ul style="list-style-type: none"> • Multiple Choice- 3 items | December January | February | perimeter irregular shapes area unit squares closest shaded | Saxon <u>Lessons 53, 72, 115</u> Item Specs. ARMT Coach <u>Lesson 28</u> | | |

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| Measurement | | | | | | |
| 12. Calculate the perimeter of rectangles from measured dimensions. ARMT Blueprint: <ul style="list-style-type: none"> • Multiple Choice- 2 items • Grid – 1 item | December January | February | Perimeter dimensions | Saxon <u>Lessons</u> 53, 66, 85 ARMT Coach <u>Lesson 29</u> Item Specs. | | |
| 13. Convert a larger unit of measurement to a smaller unit of measurement within the same system, customary or metric. Examples: 4 cups = 32 fluid ounces, 2 meters = 200 centimeters, 2 miles = 10,560 feet ARMT Blueprint: <ul style="list-style-type: none"> • Multiple Choice - 3 items • Grid - 1 item | January | February | customary metric convert | Saxon <u>Lessons</u> 74, 77, 85 Item Specs. ARMT Coach <u>Lessons 30, 31</u> | | |

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| Data Analysis and Probability | | | | | | |
| <p>14. Analyze data collected from a survey or experiment to distinguish between what the data show and what might account for the results.</p> <p>ARMT Blueprint:</p> <ul style="list-style-type: none"> • Open-ended - 2 items <p>Additional Minimum Required Content:</p> <ul style="list-style-type: none"> • Evaluating different representations of the same data to determine how well each representation shows important aspects of the data • Using given measures of central tendency (mean, median, and mode) to analyze data | August-February (on-going) | October | mean median mode | Item Specs. ARMT Coach <u>Lessons 32, 33,</u> <u>34</u> | | |
| <p>15. Use common fractions to represent the probability of events that are neither certain nor impossible.</p> <p>Example: finding the probability of stopping on a vowel when using a spinner with three vowels and five consonants</p> <p>ARMT Blueprint:</p> <ul style="list-style-type: none"> • Multiple Choice – 3 items • Grid – 1 item | January | February | probability certain possible impossible | Saxon <u>Lesson</u> <u>57</u> Item Specs. ARMT Coach <u>Lesson 35</u> | | |