

Houston County School District

Formative Assessments Pacing Guide for 6th Grade Math Standards

AL COS Standards	Date Introduced	Dates Tested	Vocabulary	Resources	% Mastery	Names of Students W/Non-Mastery
Numbers and Operations						
<p>1. Demonstrate computational fluency with addition, subtraction, multiplication, and division of decimals and fractions.</p> <p>ARMT Blueprint:</p> <ul style="list-style-type: none"> Multiple Choice- 9 items <p>Additional Minimum Required Content:</p> <ul style="list-style-type: none"> Comparing rational numbers written as fractions, decimals, mixed numbers, and percents Converting fractions and mixed numbers to decimals and percents Converting terminating decimals and percents to fractions and mixed numbers Writing decimals numbers in expanded notation <p style="padding-left: 20px;">Example: $52.37 = 50 + 2 + \frac{3}{10} + \frac{7}{100}$</p> <ul style="list-style-type: none"> Using prime factorizations Identifying prime and composite numbers Using greatest common factor (GCF) to simplify fractions Formulating algorithms using basic operations on fractions and decimals <p style="padding-left: 20px;">EX: Determining a systematic set of steps that can be used to divide fractions</p> <ul style="list-style-type: none"> Applying the distributive property to compute with fractions and decimals <p style="padding-left: 20px;">EX: $4 \times (8\frac{1}{2}) = (4 \times 8) + (4 \times \frac{1}{2}) = 32 + 2 = 34$</p> <ul style="list-style-type: none"> Using least common multiple (LCM) to add and subtract fractions with unlike denominators 	<p>August September</p>	<p>October December</p>	<p>NH=not here sum quotient product difference estimate factor multiple decimal total formula prime composite LCM GCF equivalent</p>	<p>Saxon (refer to TE) ARMT Coach <u>Lessons 1-10</u> Item Specs. (Power Points) Compass Work Out Special Education Saxon Notebook (Adaptations for Saxon Math) AMSTI Module Prime Time Bits & Pieces I, II, III Buckle Down</p>		

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<p>2. Solve problems involving decimals, percents, fractions, and proportions.</p> <p>EX: Determining the sale price of a pair of jeans that regularly sells for \$25.00 to be \$22.50 if they are on sale at 10% off the regular price.</p> <p>ARMT Blueprint:</p> <ul style="list-style-type: none"> • Multiple Choice- 5 items • Grid- 1 item • Open-ended- 2 items <p>Additional Minimum Required Content:</p> <ul style="list-style-type: none"> • Estimating with fractions and decimals 	September	October & December (#2 Needs to be heavy in December)	discount sale price original price interest total pay tax included decreased reduction reduced estimate ratio rate annual value exactly compare	Saxon Math <u>Lessons</u> <u>22, 77, 105,</u> <u>117, 119, 83,</u> <u>85, 101, 23,</u> <u>80</u> ARMT Coach <u>Lessons</u> <u>12-16</u> Item Specs AMSTI Module Bits & Pieces I, III ARMT: Buckle Down		

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Algebra																												
<p>3. Solve problems using numeric and geometric patterns.</p> <p>EX: (a) Predicting the cost of using a cell phone for 60 minutes when given a bar graph</p> <div style="text-align: center;"> <p>Cost of Using a Cell Phone</p> <table border="1" style="margin: 10px auto; border-collapse: collapse;"> <caption>Cost of Using a Cell Phone</caption> <thead> <tr> <th>Minutes</th> <th>Cost</th> </tr> </thead> <tbody> <tr><td>10</td><td>2</td></tr> <tr><td>20</td><td>4</td></tr> <tr><td>30</td><td>6</td></tr> <tr><td>40</td><td>8</td></tr> </tbody> </table> </div> <p>(b) Continuing a pattern for the 5th and 6th numbers when given the first four numbers in the pattern</p> <div style="text-align: center;"> </div> <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"> • Determining a verbal rule for a function given the input and output <table border="1" style="margin: 10px auto; border-collapse: collapse; width: 50%;"> <thead> <tr> <th>Number of Hours Worked</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> </tr> </thead> <tbody> <tr> <th>Number of Dollars Earned</th> <td>5</td> <td>10</td> <td>15</td> <td>20</td> <td>25</td> </tr> </tbody> </table> <p>(Rule: number of dollars earned is five times number of hours worked)</p>	Minutes	Cost	10	2	20	4	30	6	40	8	Number of Hours Worked	1	2	3	4	5	Number of Dollars Earned	5	10	15	20	25	September	October December	numeral pattern bar graph line graph circle graph function input output consecutive repeating doubling	Saxon Math <u>Lesson 96</u> ARMT Coach <u>Lessons 17-18</u> Item Specs. Power Points ARMT: Buckle Down		
Minutes	Cost																											
10	2																											
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Geometry						
<p>4. Identify two-dimensional and three-dimensional figures based on attributes, properties, and component parts.</p> <p>ARMT Blueprint:</p> <ul style="list-style-type: none"> • Multiple Choice- 5 items <p>Additional Minimum Required Content:</p> <ul style="list-style-type: none"> • Classifying quadrilaterals based on their attributes • Identifying line and rotational symmetries of polygons • Classifying triangles as right, obtuse, or acute 	August (Bell Ringer)	February	net rhombus parallel ratio isosceles right straight prism cube square	Saxon Math <u>60, 97, 98, 79,</u> <u>108-109, 60,</u> <u>64, 71</u> Inv.6 ARMT Coach <u>Lessons</u> <u>20-22</u> Item Specs. Power Points AMSTI:Shapes & Designs Buckle Down		
<p>5. Plot coordinates on grids, graphs, and maps.</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"> • Identifying the coordinates of a point on the Cartesian plane • Comparing parallel and perpendicular lines 	August (Bell Ringer)	February	coordinate ordered pair vertex grid x-axis y-axis best represent	Saxon Math <u>28, 97, 108</u> <u>Inv.7</u> Item Specs. Power Points AMSTI: Data About Us Buckle Down		

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Measurement						
<p>6. Classify angles as acute, obtuse, or right or straight.</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"> Estimating angle measures using 45 degrees, 90 degrees, 180 degrees, 270 degrees, or 360 degrees as referents Measuring angles 	September (Bell Ringer)	February	acute right straight angle regular figures vertex vertices segments	Saxon Math <u>Les. 28,</u> <u>97,98</u> <u>Inv.</u> <u>3, 8</u> ARMT Coach <u>Lesson 26</u> Item Specs. Power Points AMSTI: Shapes & Designs ARMT: Buckle Down		
AL COS Standards	Dates Introduced	Dates Tested	Vocabulary	Resources	% Mastery	Names of Students W/Non-Mastery
<p>7. Solve problems involving perimeter and area of parallelograms and rectangles.</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>	(P & A of Rectangle) August (P & A of parallelogram) January	October December February	perimeter area rectangle parallelogram length width geometric base squared	Saxon Math <u>Lessons</u> <u>8, 31, 71, 79,</u> <u>86, 118</u> ARMT Coach <u>Lesson</u> <u>27</u> Item Specs. Power		

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<ul style="list-style-type: none">• Estimating perimeter and area• Developing formulas to determine perimeter and area of parallelograms and rectangles			cubed unit	Points AMSTI: Covering & Surrounding ARMT: Buckle Down		
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<p>8. Determine the distance between two points on a scale drawing or a map using proportional reasoning.</p> <p>ARMT Blueprint:</p> <ul style="list-style-type: none"> • Multiple Choice- 3 items • Grid- 1 item <p>Additional Minimum Required Content:</p> <ul style="list-style-type: none"> • Using different forms of notation to symbolize ratios and rates 	January	February	scaled drawing proportional reasoning actual distance centimeter inch dimension feet meter original face	Saxon Math <u>Lesson</u> <u>83</u> <u>Inv.</u> 11 ARMT Coach <u>Lesson 28</u> Item Specs. Power Points ARMT: Buckle Down		
<p>9. Convert units of length, weight, or capacity within the same system (customary or metric).</p> <p>ARMT Blueprint:</p> <ul style="list-style-type: none"> • Multiple Choice- 4 items 	January	February	meters customary metric lite capacity quarts gallons fluid ounces	Item Specs. Power Points ARMT: Buckle Down		

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Data Analysis and Probability																				
<p>10. Interpret information from bar graphs, line graphs, and circle graphs.</p> <p>Ex. Students who plan instruments at Redbone School</p> <div style="text-align: center;"> <table border="1" style="margin: 10px auto;"> <caption>Number of students who plan Instruments</caption> <thead> <tr> <th>Instrument</th> <th>Number of Students</th> </tr> </thead> <tbody> <tr> <td>Trumpet</td> <td>20</td> </tr> <tr> <td>Flute</td> <td>40</td> </tr> <tr> <td>Piano</td> <td>60</td> </tr> <tr> <td>Drums</td> <td>30</td> </tr> <tr> <td>Trombone</td> <td>10</td> </tr> <tr> <td>Clarinet</td> <td>5</td> </tr> </tbody> </table> </div> <p>Number of students who plan Instruments</p> <p style="text-align: center;">Trumpet Flute Piano Drums Trombone Clarinet</p> <p>Possible conclusions—Twice as many students play flute as trumpet. Redbone needs more trombone players.</p> <p>ARMT Blueprint:</p> <ul style="list-style-type: none"> • Multiple Choice-2 items • Grid- 1 item • Open-ended- 1 item 	Instrument	Number of Students	Trumpet	20	Flute	40	Piano	60	Drums	30	Trombone	10	Clarinet	5	October	December February	difference intervals bar line circle interpretation accurate increase decrease accompany data display misleading data	Saxon <u>Lessons</u> <u>18, 40</u> <u>Inv.</u> 1, 4, 5 ARMT Coach <u>Lessons</u> <u>30, 31</u> Item Specs. Power Points AMSTI: Data About Us Bits & Pieces III ARMT: Buckle Down		
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<p>11. Find the probability of a simple event</p> <p>ARMT Blueprint:</p> <ul style="list-style-type: none"> • Multiple Choice- 3 items • Grid- 1 item <p>Additional Minimum Required Content:</p> <ul style="list-style-type: none"> • Expressing probabilities as ratios, percents, and decimals 	January	February	probability ratio percent decimal fraction express random	Saxon <u>Lessons</u> <u>58, 77</u> <u>Inv.</u> 9, 10 ARMT Coach <u>Lesson 32</u> AMSTI: How likely Is It? ARMT: Buckle Down		
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