

## CURRICULUM MAP FOR GRADE 6

(Suggested timeline for introducing content and process standards - some overlap all four quarters)

GLEs/GSEs NCTM Standards	1 <sup>st</sup> Quarter	2 <sup>nd</sup> Quarter	3 <sup>rd</sup> Quarter	4 <sup>th</sup> Quarter
<b>1. Numbers Sense and Operations (content)</b>	<ul style="list-style-type: none"> <li>• Mathematical operations 1.3.1</li> <li>• Order of Operations 1.5.1</li> </ul> <p style="color: red; margin-top: 10px;">Required Problem</p> <ul style="list-style-type: none"> <li>• Lemonade #6</li> </ul>	<ul style="list-style-type: none"> <li>• Mathematical operations 1.3.1</li> <li>• Order of Operations 1.5.1</li> <li>• GCF LCM 1.5.1</li> <li>• Relative magnitude 1.2.1</li> <li>• Exponents 1.4.1</li> <li>• Prime Factorization 1.7.1</li> <li>• Divisibility 1.7.1</li> </ul> <p style="color: red; margin-top: 10px;">Required Problems</p> <ul style="list-style-type: none"> <li>• Number Line #4</li> <li>• Start to End #5</li> </ul>	<ul style="list-style-type: none"> <li>• Mathematical operations 1.3.1</li> <li>• Order of Operations 1.5.1</li> <li>• Rates 1.1.1</li> <li>• Field Properties 1.7.1</li> <li>• Exponents 1.4.1</li> </ul> <p style="color: red; margin-top: 10px;">Required Problems</p> <ul style="list-style-type: none"> <li>• Ratios Part-to-part #2</li> </ul>	<ul style="list-style-type: none"> <li>• Mathematical operations 1.3.1</li> <li>• Order of Operations 1.5.1</li> <li>• Ratios/rates 1.1.1</li> <li>• Field Properties 1.7.1</li> </ul> <p style="color: red; margin-top: 10px;">Required Problems</p> <ul style="list-style-type: none"> <li>• Ratios #1</li> <li>• Ratios: Part-to whole #3</li> </ul>
<b>2. Functions and Algebra</b>		<ul style="list-style-type: none"> <li>• Patterns 3.1.1</li> <li>• Coordinate graph 3.2.1</li> <li>• Linear relationship 3.2.3</li> <li>• Slope and y intercept 3.2.2</li> <li>• Algebraic expressions and equations 3.3.1</li> <li>• Multi-step Linear Equations 3.4.1</li> </ul>	<ul style="list-style-type: none"> <li>• Patterns 3.1.1</li> <li>• Coordinate graph 3.2.1</li> <li>• Linear relationship 3.2.3</li> <li>• Slope and y intercept 3.2.2</li> <li>• Algebraic expressions and equations 3.3.1</li> <li>• Multi-step Linear Equations 3.4.1</li> </ul> <p style="color: red; margin-top: 10px;">Required Problems</p> <ul style="list-style-type: none"> <li>• Patterns #16</li> <li>• Hiking # 17</li> </ul>	<ul style="list-style-type: none"> <li>• Patterns 3.1.1</li> <li>• Coordinate graph 3.2.1</li> <li>• Linear relationship 3.2.3</li> <li>• Slope and y intercept 3.2.2</li> <li>• Algebraic expressions and equations 3.3.1</li> <li>• Multi-step Linear Equations 3.4.1</li> </ul> <p style="color: red; margin-top: 10px;">Required Problem</p> <ul style="list-style-type: none"> <li>• Burning Candle # 18</li> </ul>
<b>3. Geometry and Measurement</b>	<ul style="list-style-type: none"> <li>• Area and perimeter 2.5.1</li> <li>• Measurements 2.6.1</li> <li>• Conversions 2.6.2</li> </ul>	<ul style="list-style-type: none"> <li>• Area and perimeter 2.5.1</li> <li>• Measurements 2.6.1</li> <li>• Conversions 2.6.2</li> </ul>	<ul style="list-style-type: none"> <li>• Area, perimeter, and volume 2.5.1</li> <li>• Measurements 2.6.1</li> <li>• Conversions 2.6.2</li> <li>• 2-D shapes properties and attributes 2.1.1</li> <li>• 3-D shapes properties and attributes 2.2.1</li> </ul>	<ul style="list-style-type: none"> <li>• Area and perimeter 2.5.1</li> <li>• Measurements 2.6.1</li> <li>• Conversions 2.6.2</li> </ul>

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	<p>Required Problem</p> <ul style="list-style-type: none"> <li>• Perimeter #15</li> </ul> <p>Required Problems</p>		<ul style="list-style-type: none"> <li>• Transformations and congruency 2.3.1</li> <li>• Composition and decomposing 2.3.1</li> <li>• Similarity/scale factor 2.4.1</li> </ul> <p>Required Problems</p> <ul style="list-style-type: none"> <li>• Investigation Quadrilaterals #7</li> <li>• Three-dimensional Shapes #8</li> <li>• Composing and Decomposing Shapes #9</li> <li>• Translate Figure #10</li> <li>• The Translation Game #11</li> </ul>	<p>Required Problems</p> <ul style="list-style-type: none"> <li>• Perimeter #12</li> <li>• Scaling Circumference #13</li> <li>• Perimeter and Area #14</li> </ul>
<p><b>4. Data, Statistics, and Probability (content)</b></p>	<ul style="list-style-type: none"> <li>• Graphs 4.1.1-4.3.1</li> <li>• Landmarks 4.2.1</li> <li>• Data collection and analysis 4.6.1</li> <li>• Stem and Leaf 4.1.1</li> </ul> <p>Required Problem</p> <ul style="list-style-type: none"> <li>• Math Test Score #19</li> </ul>	<ul style="list-style-type: none"> <li>• Graphs 4.1.1-4.3.1</li> <li>• Landmarks 4.2.1</li> <li>• Data collection and analysis 4.6.1</li> </ul>	<ul style="list-style-type: none"> <li>• Graphs 4.1.1-4.3.1</li> <li>• Landmarks 4.2.1</li> <li>• Data collection and analysis 4.6.1</li> </ul>	<ul style="list-style-type: none"> <li>• Graphs 4.1.1-4.3.1</li> <li>• Landmarks 4.2.1</li> <li>• Data collection and analysis 4.6.1</li> <li>• Counting techniques 4.4.1</li> <li>• Theoretical probability and sample space 4.5.1</li> </ul> <p>Required Problem</p> <ul style="list-style-type: none"> <li>• Bean Bag #20</li> </ul>

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<b>5. Problem Solving, Reasoning and Proof</b> (process)	<ul style="list-style-type: none"> <li>• Problem-solving strategies</li> <li>• Real world problems</li> <li>• Integrated problem-solving strategies</li> <li>• Reflect on solutions and problem solving process</li> <li>• Conclusions and generalizations</li> <li>• Mathematical conjecture and arguments</li> <li>• Argument and validity of mathematical solution</li> <li>• Mathematical reasoning</li> </ul>	<ul style="list-style-type: none"> <li>• Problem-solving strategies</li> <li>• Real world problems</li> <li>• Integrated problem-solving strategies</li> <li>• Reflect on solutions and problem solving process</li> <li>• Conclusions and generalizations</li> <li>• Mathematical conjecture and arguments</li> <li>• Argument and validity of mathematical solution</li> <li>• Mathematical reasoning</li> </ul>	<ul style="list-style-type: none"> <li>• Problem-solving strategies</li> <li>• Real world problems</li> <li>• Integrated problem-solving strategies</li> <li>• Reflect on solutions and problem solving process</li> <li>• Conclusions and generalizations</li> <li>• Mathematical conjecture and arguments</li> <li>• Argument and validity of mathematical solution</li> <li>• Mathematical reasoning</li> </ul>	<ul style="list-style-type: none"> <li>• Problem-solving strategies</li> <li>• Real world problems</li> <li>• Integrated problem-solving strategies</li> <li>• Reflect on solutions and problem solving process</li> <li>• Conclusions and generalizations</li> <li>• Mathematical conjecture and arguments</li> <li>• Argument and validity of mathematical solution</li> <li>• Mathematical reasoning</li> </ul>
<b>6. Communication, Representation, and connections</b> (process)	<ul style="list-style-type: none"> <li>• Ideas clearly and logically in both written and oral form.</li> <li>• Mathematical <b>terminology, labels</b>, symbols, and notation</li> <li>• Questions, conjectures, definitions, and generalizations about data, information, and problem situations</li> <li>• Models and technology</li> <li>• Representations</li> <li>• Convert between representations</li> </ul>	<ul style="list-style-type: none"> <li>• Ideas clearly and logically in both written and oral form.</li> <li>• Mathematical <b>terminology, labels</b>, symbols, and notation</li> <li>• Questions, conjectures, definitions, and generalizations about data, information, and problem situations</li> <li>• Models and technology</li> <li>• Representations</li> <li>• Convert between representations</li> </ul>	<ul style="list-style-type: none"> <li>• Ideas clearly and logically in both written and oral form.</li> <li>• Mathematical <b>terminology, labels</b>, symbols, and notation</li> <li>• Questions, conjectures, definitions, and generalizations about data, information, and problem situations</li> <li>• Models and technology</li> <li>• Representations</li> <li>• Convert between representations</li> </ul>	<ul style="list-style-type: none"> <li>• Ideas clearly and logically in both written and oral form.</li> <li>• Mathematical <b>terminology, labels</b>, symbols, and notation</li> <li>• Questions, conjectures, definitions, and generalizations about data, information, and problem situations</li> <li>• Models and technology</li> <li>• Representations</li> <li>• Convert between representations</li> </ul>