

## GRADE SIX MATH CURRICULUM MAP

	Content	Skills	Assessment	Activities/Resources
<b>August</b>				
<b>September</b>	<ul style="list-style-type: none"> <li>~ Place value – whole numbers</li> <li>~ Rounding to billions</li> <li>~ Comparing, ordering whole numbers</li> <li>~ Multiplication skills – 2 digits</li> <li>~ Tables, line plots, bar graphs</li> <li>~ Measures of central tendencies, mode, median, range</li> <li>~ Changes in median</li> <li>~ Differentiate quantitative vs. qualitative data</li> </ul>	<ul style="list-style-type: none"> <li>~ I identify place value</li> <li>~ Rounding place value to billions – estimation</li> <li>~ Expanded notation</li> <li>~ Review multiplication</li> <li>~ Compare / contrast tables, line plots &amp; bar graphs</li> <li>~ Analyze measures of central tendency</li> <li>~ Describe shapes of data</li> <li>~ Add / subtract from median</li> <li>~ Collect numerical and categorical data</li> </ul>	<ul style="list-style-type: none"> <li>~ Daily observations</li> <li>~ Written reflections</li> <li>~ Tests / quizzes</li> <li>~ Notebooks</li> <li>~ Appropriate math games</li> </ul>	

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<b>October</b>	<ul style="list-style-type: none"> <li>~ Division skills - by 2 digits</li> <li>~ Shape of data</li> <li>~ Stem &amp; leaf plot</li> <li>~ X-y coordinate graphs</li> <li>~ Cartesian plane</li> <li>~ Mean</li> <li>~ Comparing measures of central tendency</li> <li>~ Reading large numbers</li> </ul>	<ul style="list-style-type: none"> <li>~ Review division skills</li> <li>~ Determine appropriate graph for stem plot</li> <li>~ Analyze use of measures of center quantitative data</li> <li>~ Collect and graph related data</li> <li>~ Explore relationships between variable and coordinate graph</li> <li>~ Distinguish between mean, mode, median in order to decide which is appropriate for typical</li> </ul>	<ul style="list-style-type: none"> <li>~ Daily observations</li> <li>~ Written reflections</li> <li>~ Tests / quizzes</li> <li>~ notebooks</li> <li>~ Appropriate math games</li> <li>~ Pumpkin project</li> </ul>	
<b>November</b>	<ul style="list-style-type: none"> <li>~ Factors</li> <li>~ Multiples</li> <li>~ Primes</li> <li>~ Composites</li> <li>~ Even / odd</li> <li>~ Square numbers</li> <li>~ Exponents</li> <li>~ Divisibility</li> <li>~ G.C.F.</li> <li>~ L.C.M.</li> </ul>	<ul style="list-style-type: none"> <li>~ Discover connection between dividing and finding factors of a number</li> <li>~ Classify numbers prime or composite</li> <li>~ Play game to describe relationship between factors / products</li> <li>~ Use arrays for products / factors</li> <li>~ analyze sums and products even / odd</li> <li>~ Use G.C.F. &amp; L.C.M.</li> </ul>	<ul style="list-style-type: none"> <li>~ Daily observations</li> <li>~ Written reflections</li> <li>~ Tests / quizzes</li> <li>~ Notebooks</li> <li>~ Appropriate math games</li> <li>~ Product game made by students</li> </ul>	

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<b>December</b>	<ul style="list-style-type: none"> <li>~ Prime factorization</li> <li>~ Probability</li> <li>~ Tree diagrams</li> </ul>	<ul style="list-style-type: none"> <li>~ Recognize that a number may have several different factors</li> <li>~ Use several different strategies to find prime factorization</li> <li>~ Recognize primes as building blocks of whole numbers</li> <li>~ Recognize equally likely events</li> <li>~ Understand experimental and theoretical probabilities</li> </ul>	<ul style="list-style-type: none"> <li>~ Daily Observations</li> <li>~ Written reflections</li> <li>~ Tests / quizzes</li> <li>~ notebooks</li> <li>~ Appropriate math games</li> </ul>	
<b>January</b>	<ul style="list-style-type: none"> <li>~ Part - whole relationship</li> <li>~ Equivalence of fractions</li> <li>~ Estimate fractions to 0, 1/2, 1</li> <li>~ Decimal / fraction equivalents</li> <li>~ Percents</li> <li>~ Adding fractions</li> </ul>	<ul style="list-style-type: none"> <li>~ Relate fraction model strip to part of whole interpretation</li> <li>~ Compare equivalent fractions</li> <li>~ Build number lines with fractions/decimals</li> <li>~ Compare decimals</li> <li>~ use hundredths grids to find decimals</li> <li>~ Use "out of 100" to develop understanding of %</li> <li>~ Investigate relationships among fractions /</li> <li>~ Find common denominators</li> </ul>	<ul style="list-style-type: none"> <li>~ Daily Observations</li> <li>~ Written reflections</li> <li>~ Tests / quizzes</li> <li>~ notebooks</li> <li>~ Appropriate math games</li> <li>~ MCAS review book</li> <li>~ Multiple choice and open response questions</li> </ul>	

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<b>February</b>		<ul style="list-style-type: none"> <li>~ Subtraction of fractions</li> <li>~ Addition of decimals</li> <li>~ Subtraction of decimals</li> <li>~ Using %</li> </ul>	<ul style="list-style-type: none"> <li>~ Practice using equivalent fractions to add / subtract</li> <li>~ Find tax, tip on restaurant check</li> <li>~ Determine discount and sale prices</li> </ul>	<ul style="list-style-type: none"> <li>~ Daily observations</li> <li>~ Written reflections</li> <li>~ Tests / quizzes</li> <li>~ Notebooks</li> <li>~ Appropriate math games</li> <li>~ MCAS review book</li> <li>~ Multiple choice and open response questions</li> </ul>	
<b>March</b>		<ul style="list-style-type: none"> <li>~ Area of rectangles</li> <li>~ Area same/perimeters different</li> <li>~ Area of odd shapes</li> <li>~ Perimeter same / area changes</li> <li>~ Tessellations / transformations</li> <li>~ Parallelograms</li> <li>~ Symmetry</li> </ul>	<ul style="list-style-type: none"> <li>~ Design bumper car rides area and perimeter</li> <li>~ Find area / perimeter of polygons</li> <li>~ Use pentominoes to understand area /perimeter relationship</li> <li>~ Make tessellations as art project (symmetry)</li> <li>~ Invent efficient way to determine area of parallelogram</li> </ul>	<ul style="list-style-type: none"> <li>~ Daily observations</li> <li>~ Written reflections</li> <li>~ Tests / quizzes</li> <li>~ Notebooks</li> <li>~ Appropriate math games</li> <li>~ MCAS review book</li> <li>~ Multiple choice and open response questions</li> </ul>	

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<b>April</b>	<ul style="list-style-type: none"> <li>~ Triangles</li> <li>~ Circles</li> <li>~ <math>\pi = 3.14</math></li> <li>~ using formulas</li> <li>~ surface area</li> <li>~ Volume</li> <li>~ Classify polygons</li> <li>~ Points, lines, segments</li> </ul>	<ul style="list-style-type: none"> <li>~ Experimenting with triangles &amp; parallelograms</li> <li>~ Making parallelograms from triangles</li> <li>~ Determine <math>\pi</math> (3.14) through diameter and circumference</li> <li>~ Finding area of circles using formula</li> <li>~ Finding surface area of shoe boxes</li> <li>~ Classifying polygons</li> <li>~ Finding volumes of boxes</li> </ul>	<ul style="list-style-type: none"> <li>~ Daily observations</li> <li>~ Written reflections</li> <li>~ Tests / quizzes</li> <li>~ Notebooks</li> <li>~ Appropriate math games</li> <li>~ MCAS review book</li> <li>~ Multiple choice and open response questions</li> </ul>	
<b>May</b>	<ul style="list-style-type: none"> <li>~ Finding patterns</li> <li>~ Variables &amp; equations</li> <li>~ Input/ output tables</li> <li>~ Linear equations</li> <li>~ Rate of change</li> <li>~ Order of operations</li> <li>~ Negative / positive</li> </ul>	<ul style="list-style-type: none"> <li>~ Compare and exchange quantities</li> <li>~ Finding patterns</li> <li>~ use 2 equations to determine unknown</li> <li>~ Adding / subtracting on numberline</li> <li>~ Absolute value</li> <li>~ Practice PEMDAS for MCAS</li> </ul>	<ul style="list-style-type: none"> <li>~ Daily observations</li> <li>~ Written reflections</li> <li>~ Tests/ quizzes</li> <li>~ Notebooks</li> <li>~ Appropriate math games</li> <li>~ MCAS review book</li> <li>~ Multiple choice and open response questions</li> </ul>	

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<b>June</b>					