

## 5<sup>th</sup> Grade Math Framework

Not all of the content is emphasized equally in the standards. Some clusters require greater emphasis than the others based on the depth of the ideas, the time that they take to master, and/or their importance to future mathematics or the demands of college and career readiness. In addition, an intense focus on the most critical materials at each grade allows depth in learning which is carried out through the Standards for Mathematical Practice.

The following table identifies the major clusters = ■, supporting clusters = ■, and additional clusters = ■ and the order in which they should be covered in the scope of the school year. Major clusters are those requiring more time and emphasis in the classroom. Students should demonstrate mastery in these areas. Resource tools have been identified as well as math vocabulary by trimester. It's essential that students learn the **concepts**, develop **fluency** in that concept, and that students can **apply** the concept in problem solving.

		number in parenthesis indicates number of lessons	
	Domain/Cluster Emphasis	Tools	Vocabulary
1 <sup>st</sup> Trimester	<p><b>Operations and Algebraic Thinking</b></p> <ul style="list-style-type: none"> <li><span style="color: orange;">■</span> Write and interpret numerical expressions</li> <li><span style="color: orange;">■</span> Analyze patterns and relationships</li> </ul> <p><b>Number and Operations in Base Ten</b></p> <ul style="list-style-type: none"> <li><span style="color: green;">■</span> Understand the place value system.</li> <li><span style="color: green;">■</span> Perform operations with multi-digit whole numbers and with decimals to hundredths</li> </ul>	<p><b>EnVision Topics/Lessons:</b> Topic 1, 2, 3, 4, 5, 6, 7, 8 (will carry over to 2<sup>nd</sup> semester)</p> <p><b>Additional Resources Needed</b></p> <ul style="list-style-type: none"> <li>• Elementary Share File</li> <li>• Online Resources</li> </ul>	<p>parentheses, brackets, braces, numerical patterns, rules, coordinate plane, place value, decimal, decimal point</p>
2 <sup>nd</sup> Trimester	<p><b>Number and Operations – Fractions</b></p> <ul style="list-style-type: none"> <li><span style="color: green;">■</span> Use equivalent fractions as a strategy to add and subtract fractions.</li> <li><span style="color: green;">■</span> Apply and extend previous understandings of multiplication and division to multiply and divide fractions</li> </ul> <p><b>**Ongoing Fact Fluency and Problem Solving</b></p>	<p><b>EnVision Topics/Lessons:</b> Topic 9, 10, 11</p> <p><b>Additional Resources Needed</b></p> <ul style="list-style-type: none"> <li>• Elementary Share File</li> <li>• Online Resources</li> </ul>	<p>fraction, equivalent, addition/add, sum, subtraction/subtract, difference, unlike denominator, numerator, benchmark fraction, reasonableness, product, quotient, partition, scaling, comparing</p>

<p>3<sup>rd</sup> Trimester</p>	<p><b>Measurement and Data</b></p> <ul style="list-style-type: none"> <li>■ Convert like measurement units within a given measurement system.</li> <li>■ Represent and interpret data</li> <li>■ Geometric measurement: understand concepts of volume and relate volume to multiplications and to addition</li> </ul> <p><b>Geometry</b></p> <ul style="list-style-type: none"> <li>■ Graph points on the coordinate plane to solve real-world and mathematical problems.</li> <li>■ Classify two-dimensional figures into categories based on their properties</li> </ul> <p>**Ongoing Fact Fluency and Problem Solving</p>	<p><b>EnVision Topics/Lessons:</b> Topic 12, 13, 14, 15, 16</p> <p><b>Additional Resources Needed</b></p> <ul style="list-style-type: none"> <li>• Elementary Share File</li> <li>• Online Resources</li> </ul>	<p>conversion/convert, metric and customary measurements, line plot, length, mass, liquid volume, volume, rectangular prism, unit, unit cube, gap, overlap, cubic units, edge length, height, area of base, coordinate system, coordinate plane, first quadrant, points, lines, axis/axes, x-axis, y-axis, horizontal, vertical, intersection of lines, origin, ordered pairs, coordinates, x-coordinate, y-coordinate</p>
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