

### 3<sup>rd</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.

	Domain/Cluster Emphasis	Tools	Vocabulary
1 <sup>st</sup> Trimester	<p><b>Number and Operations in Base Ten</b></p> <ul style="list-style-type: none"> <li>■ Use place value understanding and properties of operations to perform multi-digit arithmetic</li> </ul> <p><b>Operations and Algebraic Thinking</b></p> <ul style="list-style-type: none"> <li>■ Represent and solve problems involving multiplication and division</li> <li>■ Understand properties of multiplication and the relationship between multiplication and division</li> <li>■ Multiply and divide within 100 (fact fluency)</li> <li>■ Solve problems involving the four operations, and identify and explain patterns in arithmetic (Problem Solving – ongoing)</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</b></p> <ul style="list-style-type: none"> <li>• Teacher created resources</li> <li>• Elementary Share File Domain Folders Best Practices Folder Digging Into Math</li> </ul>	Place value, round, addition, add, addend, sum, subtraction, subtract, difference, strategies, (properties)-rules about how numbers work, products, groups of, quotients, partitioned equally, multiplication, division, equal groups, arrays, equations, unknown, operation, multiply, divide, factor, strategies, reasonableness, mental computation, estimation, patterns (properties – commutative, associative, distributive) – rules about how numbers work
2 <sup>nd</sup> Trimester	<p><b>Number and Operations in Base Ten</b></p> <ul style="list-style-type: none"> <li>■ Develop understanding of fraction as numbers</li> </ul> <p>**Ongoing Fact Fluency and Problem Solving from Trimester 1</p>	<p><b>EnVision Topics/Lessons:</b> Topic 9 and 10</p> <p><b>Additional Resources</b></p> <ul style="list-style-type: none"> <li>• Teacher created resources</li> <li>• Elementary Share File Domain Folders Best Practices Folder Digging Into Math</li> </ul>	Partitioned, equal parts, fraction, equal distance (intervals), equivalent, equivalence, reasonable, denominator, numerator, comparison, compare, justify, <, >, =

<p>3<sup>rd</sup> Trimester</p>	<p><b>Measurement and Data</b></p> <ul style="list-style-type: none"> <li>■ Solve problems involving measurement and estimation of interval of time, liquid volumes, and masses of objects.</li> <li>■ Represent and interpret data</li> <li>■ Geometric measurement: understand concepts of area and relate area to multiplication and to addition</li> <li>■ Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.</li> </ul> <p><b>Geometry</b></p> <ul style="list-style-type: none"> <li>■ Reason with shapes and their attributes</li> </ul> <p>**Ongoing Fact Fluency and Problem Solving from Trimester 1</p>	<p><b>EnVision Topics/Lessons:</b> Topic 11, 12, 13, 14, 15, 16</p> <p><b>Additional Resources</b></p> <ul style="list-style-type: none"> <li>• Teacher created resources</li> <li>• Elementary Share File Domain Folders Best Practices Folder Digging Into Math</li> </ul>	<p>Estimate, time, time intervals, minute, hour, elapsed time, measure, liquid volume, mass, standard units, metric, gram (g), kilogram (kg), liter (L), scale, scaled picture graph, scaled bar graph, line plot, data, attribute, area, square unit, plane figure, gap, overlap, square cm, square m, square in., square ft, nonstandard units, tiling, side length decomposing, names of all two and three dimensional shapes. Open figure, closed figure, quadrilateral, polygon, attributes, properties, unit fraction, partition</p>
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