

3rd Grade Mathematics

2007 Next Generation Sunshine State Standards

Big Idea1: Develop understandings of multiplication and division and strategies for basic multiplication facts and related division facts.

BENCHMARK CODE	BENCHMARK
MA.3.A.1.1	<p>Model multiplication and division including problems presented in context: repeated addition, multiplicative comparison, array, how many combinations, measurement, and partitioning.</p> <p><i>Cognitive Complexity/Depth of Knowledge Rating: Moderate</i></p>
MA.3.A.1.2	<p>Solve multiplication and division fact problems by using strategies that result from applying number properties.</p> <p><i>Cognitive Complexity/Depth of Knowledge Rating: High</i></p>
MA.3.A.1.3	<p>Identify, describe, and apply division and multiplication as inverse operations.</p> <p><i>Cognitive Complexity/Depth of Knowledge Rating: Moderate</i></p>

Big Idea2: Develop an understanding of fractions and fraction equivalence.

BENCHMARK CODE	BENCHMARK
MA.3.A.2.1	<p>Represent fractions, including fractions greater than one, using area, set and linear models.</p> <p><i>Cognitive Complexity/Depth of Knowledge Rating: Moderate</i></p>
MA.3.A.2.2	<p>Describe how the size of the fractional part is related to the number of equal sized pieces in the whole.</p> <p><i>Cognitive Complexity/Depth of Knowledge Rating: Moderate</i></p>
MA.3.A.2.3	<p>Compare and order fractions, including fractions greater than one, using models and strategies.</p> <p><i>Cognitive Complexity/Depth of Knowledge Rating: Moderate</i></p>
MA.3.A.2.4	<p>Use models to represent equivalent fractions, including fractions greater than 1, and identify representations of equivalence.</p> <p><i>Cognitive Complexity/Depth of Knowledge Rating: Moderate</i></p>

Big Idea3: Describe and analyze properties of two-dimensional shapes.

BENCHMARK CODE	BENCHMARK
MA.3.G.3.1	<p>Describe, analyze, compare and classify two-dimensional shapes using sides and angles - including acute, obtuse, and right angles - and connect these ideas to the definition of shapes.</p> <p><i>Cognitive Complexity/Depth of Knowledge Rating: Moderate</i></p>
MA.3.G.3.2	<p>Compose, decompose, and transform polygons to make other polygons, including concave and convex polygons with three, four, five, six, eight, or ten sides.</p> <p><i>Cognitive Complexity/Depth of Knowledge Rating: High</i></p>
MA.3.G.3.3	<p>Build, draw and analyze two-dimensional shapes from several orientations in order to examine and apply congruence and symmetry.</p> <p><i>Cognitive Complexity/Depth of Knowledge Rating: Moderate</i></p>

3rd Grade Mathematics 2007 Next Generation Sunshine State Standards

Supporting Idea4: Algebra	
BENCHMARK CODE	BENCHMARK
MA.3.A.4.1	Create, analyze, and represent patterns and relationships using words, variables, tables and graphs. <i>Cognitive Complexity/Depth of Knowledge Rating: High</i>

Supporting Idea5: Geometry and Measurement	
BENCHMARK CODE	BENCHMARK
MA.3.G.5.1	Select appropriate units, strategies and tools to solve problems involving perimeter. <i>Cognitive Complexity/Depth of Knowledge Rating: High</i>
MA.3.G.5.2	Measure objects using fractional parts of linear units such as 1/2, 1/4, and 1/10. <i>Cognitive Complexity/Depth of Knowledge Rating: Low</i>
MA.3.G.5.3	Tell time to the nearest minute and to the nearest quarter hour, and determine the amount of time elapsed. <i>Cognitive Complexity/Depth of Knowledge Rating: Moderate</i>

Supporting Idea6: Number and Operations	
BENCHMARK CODE	BENCHMARK
MA.3.A.6.1	Represent, compute, estimate and solve problems using numbers through hundred thousands. <i>Cognitive Complexity/Depth of Knowledge Rating: High</i>
MA.3.A.6.2	Solve non-routine problems by making a table, chart ,or list and searching for patterns. <i>Cognitive Complexity/Depth of Knowledge Rating: High</i>

Supporting Idea7: Data Analysis	
BENCHMARK CODE	BENCHMARK
MA.3.S.7.1	Construct and analyze frequency tables, bar graphs, pictographs, and line plots from data, including data collected through observations, surveys, and experiments. <i>Cognitive Complexity/Depth of Knowledge Rating: High</i>