

## 2<sup>nd</sup> Grade Mathematics

### 2007 Next Generation Sunshine State Standards

#### Big Idea1: Develop an understanding of base-ten numerations system and place-value concepts.

BENCHMARK CODE	BENCHMARK
MA.2.A.1.1	Identify relationships between the digits and their place values through the thousands, including counting by tens and hundreds.  <i>Cognitive Complexity/Depth of Knowledge Rating: Moderate</i>
MA.2.A.1.2	Identify and name numbers through thousands in terms of place value and apply this knowledge to expanded notation.  <i>Cognitive Complexity/Depth of Knowledge Rating: Low</i>
MA.2.A.1.3	Compare and order multi-digit numbers through the thousands.  <i>Cognitive Complexity/Depth of Knowledge Rating: Moderate</i>

#### Big Idea2: Develop quick recall of addition facts and related subtraction facts and fluency with multi-digit addition and subtraction.

BENCHMARK CODE	BENCHMARK
MA.2.A.2.1	Recall basic addition and related subtraction facts.  <i>Cognitive Complexity/Depth of Knowledge Rating: Low</i>
MA.2.A.2.2	Add and subtract multi-digit whole numbers through three digits with fluency by using a variety of strategies, including invented and standard algorithms and explanations of those procedures.  <i>Cognitive Complexity/Depth of Knowledge Rating: Moderate</i>
MA.2.A.2.3	Estimate solutions to multi-digit addition and subtraction problems, through three digits.  <i>Cognitive Complexity/Depth of Knowledge Rating: Moderate</i>
MA.2.A.2.4	Solve addition and subtraction problems that involve measurement and geometry.  <i>Cognitive Complexity/Depth of Knowledge Rating: High</i>

#### Big Idea3: Develop an understanding of linear measurement and facility in measuring lengths.

BENCHMARK CODE	BENCHMARK
MA.2.G.3.1	Estimate and use standard units, including inches and centimeters, to partition and measure lengths of objects.  <i>Cognitive Complexity/Depth of Knowledge Rating: Moderate</i>
MA.2.G.3.2	Describe the inverse relationship between the size of a unit and number of units needed to measure a given object.  <i>Cognitive Complexity/Depth of Knowledge Rating: Moderate</i>
MA.2.G.3.3	Apply the Transitive Property when comparing lengths of objects.  <i>Cognitive Complexity/Depth of Knowledge Rating: Moderate</i>
MA.2.G.3.4	Estimate, select an appropriate tool, measure, and/or compute lengths to solve problems.  <i>Cognitive Complexity/Depth of Knowledge Rating: High</i>

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Supporting Idea4: Algebra	
BENCHMARK CODE	BENCHMARK
MA.2.A.4.1	Extend number patterns to build a foundation for understanding multiples and factors – for example, skip counting by 2's, 5's, 10's.  <i>Cognitive Complexity/Depth of Knowledge Rating: Moderate</i>
MA.2.A.4.2	Classify numbers as odd or even and explain why.  <i>Cognitive Complexity/Depth of Knowledge Rating: Moderate</i>
MA.2.A.4.3	Generalize numeric and non-numeric patterns using words and tables.  <i>Cognitive Complexity/Depth of Knowledge Rating: High</i>
MA.2.A.4.4	Describe and apply equality to solve problems, such as in balancing situations.  <i>Cognitive Complexity/Depth of Knowledge Rating: High</i>
MA.2.A.4.5	Recognize and state rules for functions that use addition and subtraction.  <i>Cognitive Complexity/Depth of Knowledge Rating: High</i>

Supporting Idea5: Geometry and Measurement	
BENCHMARK CODE	BENCHMARK
MA.2.G.5.1	Use geometric models to demonstrate the relationships between wholes and their parts as a foundation to fractions.  <i>Cognitive Complexity/Depth of Knowledge Rating: Moderate</i>
MA.2.G.5.2	Identify time to the nearest hour and half hour.  <i>Cognitive Complexity/Depth of Knowledge Rating: Low</i>
MA.2.G.5.3	Identify, combine, and compare values of money in cents up to \$1 and in dollars up to \$100, working with a single unit of currency.  <i>Cognitive Complexity/Depth of Knowledge Rating: Moderate</i>
MA.2.G.5.4	Measure weight/mass and capacity/volume of objects. Include the use of the appropriate unit of measure and their abbreviations including cups, pints, quarts, gallons, ounces (oz), pounds (lbs), grams (g), kilograms (kg), milliliters (mL) and liters (L).  <i>Cognitive Complexity/Depth of Knowledge Rating: Low</i>

Supporting Idea6: Number and Operations	
BENCHMARK CODE	BENCHMARK
MA.2.A.6.1	Solve problems that involve repeated addition.  <i>Cognitive Complexity/Depth of Knowledge Rating: Moderate</i>