

# Math TEKS for 2nd Grade: 2013-2014

Primary Areas of Focus:							
A) Understand and Apply Base-10 Place Value - Counting in units/multiples of 1000s, 100s, 10s, and 1s							
B) Addition and Subtraction - Use efficient and accurate methods to solve multi-digit whole number problems							
C) Use the relationship b/t skip counting & = groups of objects to represent add/subtract of equivalent sets (building a strong foundation for mult/div.)							
Note: Statements that contain "including" reference content that must be mastered, while "such as" are intended as possible illustrative examples.							
PROCESS: Category 1: Underlying Processes & Mathematical Tools							
2.1A	Apply Math in Everyday Life Situations						
2.1B	Problem Solving Model - 1) Analyze Info, 2) Make a plan, 3) Solve, 4) Justify, & 5) Evaluate the process						
2.1C	Use Tools including real objects, manipulatives, technology, estimation, & mental math to solve problems						
2.1D	Communicate mathematical ideas using representations including symbols, diagrams, graphs, etc.						
2.1E	Create and use representations to organize, record, and communicate math ideas						
2.1F	Analyze mathematical relationships to connect and communicate math ideas						
2.1G	Display, explain, & justify math ideas and arguments using precise math language written and orally						
Category 2: Numbers & Operations							
Place Value							
CONTENT: (43 TEKS)		8-Week Periods:		1st	2nd	3rd	4th
2.2A	Use concrete/pictorial models to compose/decompose #s up to 1200 (1s, 10s, 100s, 1000s)						
2.2B	Use standard, word, and expanded forms to represent #s up to 1,200						
Comparing Numbers Using Place Value							
2.2C	Generate a number that is greater than/less than a number up to 1,200.						
2.2D	Use Place Value to compare & order whole numbers up to 1,200 using comparative language, numbers, and symbols (>, <, or =).						
2.2E	Locate the position of a given whole number on an open number line						
2.2F	Name the whole number that corresponds to a specific point on a number line						
Category 3: Numbers & Operations - Fractional Units							
2.3A	Partition objects into = parts & name parts including halves, fourths, & eighths, using words						
2.3B	Explain that the more fractional parts used to make a whole, the smaller the part (& vice versa)						
2.3C	Use concrete models to count fractional parts beyond one whole (& recognize how many parts it takes to = 1 whole)						
2.3D	Identify examples & non-examples of halves, fourths and eighths						
Category 4: Numbers & Operations - Adding and Subtracting to Solve Problems							
2.4A	Recall basic facts to add and subtract within 20 with automaticity						
2.4B	Add up to four 2-digit numbers & subtract 2-digit #s using mental strategies & algorithms based on knowledge of place value properties of operations						
2.4C	Solve one-step & multi-step word problems involving addition/subtraction within 1,000						
2.4D	Generate & solve word problems when given a number sentence involving addition & subtraction of #s within 1,000.						
Category 5: Number & Operations - Value of Coins							
2.5A	Determine the value of a collection of coins up to one dollar (\$1).						
2.5B	Use the cent symbol, dollar sign, and the decimal point to name the value of a collection of coins						
Category 6: Number & Operations - Multiplication & Division							
2.6A	Model, create, & describe contextual multiplication situations in which equivalent sets of concrete objects are joined						
2.6B	Model, create, & describe contextual division situations in which a set of concrete objects is separated into equivalent sets.						
		8-Week Periods:	1st	2nd	3rd	4th	

Category 7: Algebraic Reasoning - Identify & Apply Number Patterns				
2.7A	Determine whether a # up to 40 is even or odd using pairings of objects to represent the #			
2.7B	Use an understanding of place value to determine the # that is 10 or 100 more or less than a given # up to 1,200			
2.7C	Represent and solve addition & subtraction word problems where unknowns may be any one of the terms in the problem.			
Category 8: 2-D & 3-D Geometry				
2.8A	Create 2-D shapes based on attributes, including number of sides & vertices			
2.8B	Classify and sort 3-D solids, including spheres, cones, cylinders, rectangular prisms (including cubes), & triangular prisms based on their attributes using formal geometric language			
2.8C	Classify & sort polygons with 12 or fewer sides according to attributes (# of sides/vertices)			
2.8D	Compose 2-D shapes & 3-D shapes with given properties and attributes			
2.8E	Decompose 2-D shapes (such as cutting out a square from a rectangle, dividing a shape in half, or partitioning a rectangle into identical triangles) & identifying the resulting geometric part.			
Category 9: Measurement - Length, Area & Time				
2.9A	Find the length of objects using concrete models for standard units of length			
2.9B	Describe the inverse relationship between the size of the unit & # of units needed to = the length of an object.			
2.9C	Represent whole #s as distances from any given location on a number line			
2.9D	Determine the length of an object to the nearest marked unit using rulers, yardsticks, meter sticks, or measuring tapes.			
2.9E	Determine a solution to a problem involving length, including estimated lengths.			
2.9F	Use concrete models of square units to find Area of a rectangle (counting to find the total # of square units, & describing the measurement using a number and the unit)			
2.9G	Read and write to the nearest one-minute increment using analog and digital clocks and distinguish between a.m. and p.m.			
Category 10: Data Analysis				
2.10A	Explain that the length of a bar in a bar graph or # of pics in a pictograph represent the # of data points for a given category			
2.10B	Organize a collection of data with up to 4 categories using pictographs and bar graphs with intervals of one			
2.10C	Write & solve one-step word problems involving add/subtract using data represented within pictographs & bar graphs			
2.10D	Draw conclusions & make predictions from info in a graph			
Category 9: Personal Financial Literacy				
2.11A	Calculate how money saved can accumulate into a larger amount over time			
2.11B	Explain tha saving is an alternative to spending			
2.11C	Distinguish between a deposit and a withdrawal			
2.11D	Identify examples of borrowing & distinguish between responsible & irresponsible borrowing			
2.11E	Identify examples of lending and use concepts of benefits & costs to evaluate lending decisions			
2.11F	Differentiate between producers & consumers & calculate the cost to produce a simple item			

**Last Day of School: Friday, May 23**