

NAME _____

DATE _____

First Grade Math Skills & Concepts Continuum

Explanation of Color Coding

Pink: Just beginning to utilize this skill or concept

Green: Developing an understanding of this skill or concept

Yellow: Proficient with this skill or concept

EARLY FIRST GRADE	LATE FIRST GRADE	BEYOND FIRST GRADE
Counting Skills		
Counts by 1's to 30 and by 10's to 100.	Counts by 2's to 50, 5's to 100, and 10's to 100.	Counts by 1's, 2's, 5's, 10's, and 25's to 100 and beyond.
Number & Numeration		
Counts, recognizes, represents, names, and orders numbers to 30.	Reads, writes, and understands numbers to 100.	Reads, writes, and understands numbers to 999.
Basic Facts		
Uses a variety of strategies to figure out addition and subtraction combinations to 10.	Uses a variety of strategies to figure out addition and subtraction combinations to 20.	Quickly solves addition and subtraction combinations to 20, using a variety of strategies.
Story Problems		
Poses and solves addition and subtraction story problems for quantities under 10.	Poses and solves addition and subtraction story problems for quantities greater than 10.	Poses and solves addition, subtraction, multiplication, and division story problems.
Algebraic Thinking		
Identifies, copies, extends, and creates repeating patterns. 	Creates, labels, and translates both growing and repeating patterns using objects or pictures.	Discovers a variety of patterns on the hundreds chart. Uses patterns to make predictions.
Geometry—Shape Identification & Classification		
Recognizes, names, and sorts these shapes: square, triangle, circle, and rectangle.	Classifies familiar 2- and 3-dimensional shapes by common attributes (shape, size, roundness, number of corners, etc.).	Classifies 2-dimensional shapes by number of corner and sides. Classifies 3-dimensional shapes by face shape, number of edges, faces, and vertices.
Geometry—Shape Construction		
Builds 2- and 3-dimensional constructions with pattern blocks and polydrons.	Combines or subdivides shapes to create new shapes. (Cuts a square into 2 triangles or 2 rectangles; combines 4 triangles to make a square.)	Combines several different shapes to create a single new shape. (Can use a combination of squares, triangles, and parallelograms to create a square.)
Measurement		
Compares length, weight, and capacity. Uses the terms "longer than/shorter than," "heavier than/lighter than," "holds more than, holds less than."	Measures length, weight, and capacity with nonstandard units.	Measures length in standard units. Measures weight, capacity, area, and perimeter in nonstandard units.
Time		
Tells time to the hour.	Tells time to the hour and half hour.	Tells time to the quarter hour.
Money		
Knows the name and worth of a dime, a nickel, and a penny.	Counts mixed collections of dimes, nickels, and pennies to 30¢ and beyond.	Counts mixed collections of quarters, dimes, nickels, and pennies to at least \$1.00.

First Grade Math Skills & Concepts Continuum (cont.)

EARLY FIRST GRADE	LATE FIRST GRADE	BEYOND FIRST GRADE
Data Analysis		
Creates 2-column graphs with real objects.	Creates 2- or 3-column real or picture graphs; makes statements about graphed data.	Creates, reads, and interprets a variety of picture, symbolic, and bar graphs.
Problem-Solving Strategies		
Draws pictures or uses objects to solve a problem.	Draws pictures, uses objects, uses a guess and check strategy, chooses an operation, or looks for a pattern to solve a problem.	Uses more than 1 strategy to solve a problem (e.g., looks for a pattern, draws a picture, and chooses an operation).

Comments