

K-2 Math Skills Continuum

Kindergarten	1 st grade	2 nd grade
Number Properties		
Whole Numbers Count read and model numbers 0-50 Write numbers 0-20 Count one to one correspondence to 20 Order groups by quantity (1-10)(more, less, same/equal) Skip count by 2's, to 20, by 10's to 100, by 5's to 50 Begin to identify odd and even numbers Develop and understanding of place value for ones and tens. Estimate quantities	Whole Numbers Read, write, count and model whole numbers to 100 Compare (<, >, =) whole numbers to 100 Order numbers to 100 Identify and describe place value to 100 Skip-count forward by 2s, 5s, 10s to 100 and backwards from 50 Use drawings and 10 sets to represent place value of 10's and ones. Identify and provide examples of odd/even numbers to 50 Estimate quantities	Whole numbers Read, write, count and model whole numbers to (0-1,000) Order numbers (0-1,000) Compare (<,>=) whole numbers to 1,000 Skip count forward by 2's, 5's, 10's to 100 and backwards from 50 Identify numbers that are even and odd Represent base 10 place value with drawings (thousands, hundreds, tens, ones) Round number to the nearest 10 Identify and describe place value to 1,000
Fractions Identify half and whole	Fractions Recognize, identify and label fractions (1/2, 1/3, 1/4)	Fractions Recognize, identify, label and compare fractions (1/2, 1/3, 1/4) as parts of a whole set
Operations		
Addition Add using whole numbers (0-10) and manipulatives Commutative property (turnaround facts/fact families) of addition to 10 Zero property of addition to 10	Addition Add whole numbers with single digits using physical objects and concrete materials Know addition facts to 10 Estimate to check reasonableness of answer Use addition properties: - Zero Property of Addition - Commutative property (turnaround facts/fact families) of addition to 10	Addition Identify the correct operation, add whole numbers with 3 digits or less Identify and use different mental math strategies to solve problems Add numbers to 20 Identify the relationship between addition and subtraction Analyze the problem to identify the correct operation Use addition properties: Zero Property Commutative Property Fractions Add/Subtract fractions with like denominators ($1/2 + 1/2 =$) Decimals Add and subtract decimals related to money (dollars and cents)
Subtraction Subtract using whole numbers (0-10) and manipulatives	Subtraction Subtract whole numbers 20 and less using physical objects and concrete materials Know subtraction facts to 10 Apply math strategies to solve addition and subtraction problems Estimate to check reasonableness of answer	Subtraction Subtract numbers with 2 digits or less with regrouping Analyze the problem to identify the correct operation

K-2 Math Skills Continuum

	Multiplication Count by 2's, 5's and 10's	Multiplication Count by 2's, 5's and 10's Construct and use arrays to show understanding of the multiplication process Analyze the problem to identify the correct operation
Measurement		
Length Measure length using non-standard units (cubes, yarn) Compare and order lengths Estimate lengths	Length Use standard and non standard units to measure length Use rulers properly to get a true measurement to the nearest ½ inch Measure in inches and centimeters Compare objects for length (longer, shorter) Estimate length	Length Use standard and nonstandard to measure length Using a ruler students will measure objects to the nearest ½ inch or nearest centimeter Compare, order and describe an object based on the bases of length Estimate length
Weight Compare and order objects of weight (heavier than/lighter than)	Weight Compare objects for weight (heavier than, lighter than)	Weight Identify tools to use to measure weight Weigh to the nearest pound Describe, compare, and order objects on the basis of weight Be able to estimate weight
Time Tell time to: - hour - half hour Name the days of the week, months of the year, year, seasons	Time Tell time to: -hour, -half hour -quarter hour Recite days of the week, months of the year Identify months in each season Identify am/pm	Time Tell time to: - Hour - Half hour - Quarter hour - Five minutes Know the relationship of time Number of minutes in an hour and hours in a day Recite and identify months of the year Identify am/pm
Money Identify coins (penny, nickel, dime and quarter) and their value Understand process of “trading up” (5 pennies=1 nickel)	Money Identify coins and their values Exchange Coins (2 nickels=1dime, 2 dimes and 1 nickel=1 quarter)	Money Identify and use coins and bills to count money to a dollar Use money symbols for cents and dollars Combine coins to make a given amount
	Temperature Read a thermometer	Temperature Estimate and measure then measure temperature (Fahrenheit) and then determine if estimations were reasonable Identify Fahrenheit and Celsius

K-2 Math Skills Continuum

Geometry		
Geometric Elements Identify: sides corners Describe shapes using sides and corners	Geometric Elements Identify: Sides Edges Faces bases	Geometric Elements Identify - Sides - Edges - Faces - Bases - Corners
2D Shapes Tell spatial relationship of shape (behind, beside, inside etc) Identify and make shapes: - Circle - Square - Rectangle - Triangle - Oval - Diamond Identify shapes in environment Sort objects by size, shape and/or color	2D Shapes Identify 2-D shapes by name and attributes: - Triangle - Square - Rectangle - Circle - Oval - Rhombus (diamond) Describe shapes using geometric elements	2D Shapes Recognize and name and give examples of 2-D shapes - Circles - Triangle - Square - Pentagon - Hexagon - Rhombus - Trapezoid Describe shapes using geometric elements Construct using 2-D shapes
	3D Shapes Compare/sort 2-D and 3-D shapes by common attributes of size, shape, number of sides/ corners Identify plane shape that makes up the face/faces of a 3-D shape	3D shapes Compare and contrast 3-D figures Describe using geometric elements Identify and give examples of 3-D figures Recognize and identify 3-D shapes - Spheres - Pyramids - Cubes - Cylinders - Cones Compare, contrast, and classify 3-D shapes by common attributes Identify and describe symmetry in objects

K-2 Math Skills Continuum

Data		
Organize and display data using pictographs	<p>Read and interpret:</p> <ul style="list-style-type: none"> - drawings - tables/charts - tally tables - pictographs - bar graphs <p>Collect data</p> <p>Organize data into:</p> <ul style="list-style-type: none"> - Tally charts - Picotograph - bar graphs 	<p>Know how to interpret, explore, read and create</p> <ul style="list-style-type: none"> - Drawings - Tables/charts - Tally tables - Pictographs - Bar graphs - 2 circle venn diagrams <p>Can pose questions that can be answered by collecting data</p> <p>Create data to display in a:</p> <ul style="list-style-type: none"> - Pictograph - Bar graph - Table/chart - Venn diagram <p>Introduce parts of the graph</p> <p>Efolio :Electronic Graph whole class, small group, partners or individual group</p>
Algebraic Thinking		
Recognize and extend 2 and 3 part patterns	Identify and extend 2 and 3 part patterns	Can identify, explore, recognize and create 2 and 3 part patterns repeating patterns
Create a simple number sentence from real world situations represented by drawings or orally	Solve math problems with missing addends	<p>Solve simple addition and subtraction function machine tasks</p> <p>Explore functions using a calculator</p>