

CCSS: Math

K-5 Common Core State Standards: Cluster Overview

Domains	Kindergarten	First Grade	Second Grade	Third Grade	Fourth Grade	Fifth Grade
Counting and Cardinality	<ul style="list-style-type: none"> -Know number names and the count sequence -Count to 100 by ones & tens -Compare numbers -write and count objects 0-20. 	<h1>Not Applicable</h1>				
Operations and Algebraic Thinking	<ul style="list-style-type: none"> -Understand addition as putting together and adding to and understand subtraction as taking apart and taking from. 	<ul style="list-style-type: none"> -Represent and solve problems involving addition and subtraction. -Understand and apply properties of operations and the relationship between addition subtraction, -Add and subtract within 20, (Be fluent within 10) -Work with addition and subtraction equations. 	<ul style="list-style-type: none"> -Represent and solve problems involving addition and subtraction. -Add and subtract fluently within 20. -Work with equal groups of objects to gain foundations for multiplication. -Know all sums of two one-digit numbers. -Create 5 by 5 rectangular arrays to express sums. 	<ul style="list-style-type: none"> -Represent and solve problems involving multiplication and division. -Understand multiplication and the relationship between multiplication and division. -Multiply and divide within 100 -Solve problems involving the four operations and identify and explain patterns -Products of whole numbers. 	<ul style="list-style-type: none"> -Use the four operations with whole numbers to solve problems. -Gain familiarity with factors and multiples. -Generate and analyze patterns. 	<ul style="list-style-type: none"> -Write and interpret numerical expressions using parentheses, brackets or braces. -Analyze patterns and relationships.
Number & Operations in Base Ten	<ul style="list-style-type: none"> -Work with numbers 11-19 to gain foundations for place value. 	<ul style="list-style-type: none"> -Extend the counting sequence to 120. -Understand place value to 100. -Use place value understanding and properties of operations to add and subtraction within 100. -Subtract multiples of 10. -Understand tens and ones. 	<ul style="list-style-type: none"> -Understand place value to 1000. -Use place value understanding and properties of operations to add and subtract within 1000, fluently within 100. 	<ul style="list-style-type: none"> -Use place value and properties of operations to perform multi-digit arithmetic. Add and subtract fluently within 1000. Multiply 10s by 1-digit numbers. 	<ul style="list-style-type: none"> -Generalize place value understanding for multi-digit whole numbers. -Use place value understanding and properties of operations to perform multi-digit arithmetic. Add and subtract fluently. Multiply & divide numbers up to 4-digits by 1-digits, and multiply two 2-digit #s. 	<ul style="list-style-type: none"> -Understand the place value system. -Perform operations with multi-digit whole numbers. Divide by 2-digit numbers. Fluently add, subtract and multiply -Perform operations with decimals to hundredths. -Read, write and compare decimals to thousandths.

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<p>Measurement & Data</p>	<ul style="list-style-type: none"> -Describe and compare measurable attributes. -Classify objects and count the number of objects in each category. 	<ul style="list-style-type: none"> -Measure lengths indirectly and by estimating length units. -Tell and write time in hours & ½ hours on analog and digital clocks. -Represent and interpret data. 	<ul style="list-style-type: none"> -Measure and estimate lengths in standard units. -Relate addition and subtraction to length. -Work with time to the nearest 5 minutes and money (dollars, quarters, dimes, nickels, & pennies). -Represent and interpret data. 	<ul style="list-style-type: none"> -Solve problems involving measurement and estimation of intervals of time, liquid, volume, and masses of objects. -Represent and interpret data. -Understand concepts of area and relate area to multiplication and to addition. 	<ul style="list-style-type: none"> -Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit. -Represent and interpret data. -Understand concepts of angle and measure angles. -Know units of measurement. 	<ul style="list-style-type: none"> -Convert like measurement units within a given measurement system. -Represent and interpret data. -Understand concepts of volume and relate volume to multiplication and to addition.
<p>Geometry</p>	<ul style="list-style-type: none"> -Identify and describe shapes (squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders, and spheres). -Analyze, compare, create, and compose shapes. -Identify 2 and 3 dimensional shapes. 	<ul style="list-style-type: none"> -Reason with shapes and their attributes. -Partition circles & rectangles into 2 or 4 equal parts. -Compose composite 2 and 3 dimensional shapes. 	<ul style="list-style-type: none"> -Reason with shapes and their attributes. Identify shapes by the number of sides. -Partition circles and rectangles into 2, 3, & 4 equal shares. 	<ul style="list-style-type: none"> -Reason with shapes and their attributes. Identify types of quadrilaterals. -Express parts of shapes as fractions. 	<ul style="list-style-type: none"> -Draw and identify lines and angles, and classify shapes by properties of their lines and angles. -Recognize and identify right angles. 	<ul style="list-style-type: none"> -Graph points on the coordinate plane to solve real-world and mathematical problems. -Classify two-dimensional figures into categories based on their properties.