

	K	1	2	3	4	5
Math Practices	<ul style="list-style-type: none"> • Make sense of problems and persevere in solving them • Construct viable arguments and critique the reasoning of others • Use appropriate tools strategically • Look for and express regularity in repeated reasoning 			<ul style="list-style-type: none"> • Reason abstractly and quantitatively • Model with mathematics • Look for and make use of structure • Attend to precision 		
Counting and Cardinality	<p>Compare groups of objects</p> <p>Compare two numerals</p> <p>Count out objects within 20</p>					
Operations and Algebraic Thinking	<p>Represent addition and subtraction</p> <p>Decompose numbers</p> <p>Make ten</p> <p>Solve addition and subtraction word problems</p> <p>Fluently add and subtract within five</p>	<p>Determine the unknown whole number in addition and subtraction equations (three whole numbers)</p> <p>Work with the commutative property of addition</p>	<p>Fluently add and subtract within 20</p>	<p>Understand the relationship between multiplication and division</p> <p>Determine unknown in a multiplication and division equations</p> <p>Solve two-step word problems using addition, subtraction, and multiplication</p> <p>Fluently multiply and divide within 100</p> <p>Apply properties of operations (commutative, associative, distributive)</p>	<p>Perform addition, subtraction, multiplication and division operations with whole numbers (including multiplicative comparison and interpreting remainders in division)</p> <p>Gain familiarity with factors and multiples</p>	<p>Interpret numerical expressions</p> <p>Identify numerical relationships in patterns; form ordered pairs and graph on a coordinate plane</p>

<p>Number and Operations in Base Ten</p>	<p>Compose and decompose numbers from 11 to 19 into tens, ones</p>	<p>Add and subtract within 100 including multiples of 10</p> <p>Understand Place Value; tens, ones</p>	<p>Fluently add and subtract within 100 and solve problems.</p> <p>Compare three-digit numbers by 100s, 10s and 1s</p> <p>Read and write numbers to 1,000</p>	<p>Fluently add and subtract within 1,000 and solve problems</p>	<p>Fluently add and subtract within 1,000,000 and solve problems</p> <p>Perform 4 digit by 1 digit and 2 digit by 2 digit multiplication; four digit by 1 digit division</p>	<p>Read, write, and compare decimals to thousandths</p> <p>Add, subtract, multiply and divide decimals to hundredths</p> <p>Perform 4 digit by 2 digit and 3 digit by 2 digit multiplication; 4 digit by 2 digit division</p>
<p>Measurement And Data</p>	<p>Describe measurable attributes of objects, such as length or weight.</p> <p>Classify objects</p>	<p>Compare the lengths of two objects, iterate length</p> <p>Tell and write time to half hour</p> <p>Know coins and their value</p> <p>Represent and interpret data</p>	<p>Measure and estimate lengths in standard units and solve problems</p> <p>Tell and write to the nearest five minutes using AM and PM</p> <p>Make a line plot, pictograph and bar graph; up to four categories</p>	<p>Measure and estimate liquid volumes and masses</p> <p>Tell and write time to the minute; solve word problems with time intervals</p> <p>Draw a scaled picture graph and bar graph</p> <p>Recognize and measure area; relate to multiplication and addition</p> <p>Solve perimeter problems</p>	<p>Convert measurement, (larger to smaller units) solve problems</p> <p>Make a line plot to display data sets w/fractional values</p> <p>Solve problems involving area and perimeter</p> <p>Measure angles using a protractor</p>	<p>Convert among different-sized measurement units within a given measurement system</p> <p>Recognize volume as an attribute of solid figures and understand concepts of volume measurement</p> <p>Relate volume to multiplication and addition and solve real-world volume problems</p>

<p>Geometry</p>	<p>Identify and describe shapes</p> <p>Analyze, compare, create, and compose shapes.</p>	<p>Describe defining attributes of shapes</p> <p>Partition circles and rectangles into 2 or 4 equal shares</p>	<p>Partition squares and rectangles into rows and columns or equal shares</p>	<p>Partition shapes into parts with equal areas</p>	<p>Classify shapes by the properties of their lines and angles</p>	<p>Classify 2D figures into categories based on their properties</p> <p>Graph points in the first quadrant of the coordinate plane and interpret coordinate values</p>
<p>Number and Operations-Fractions</p>				<p>Understand a fraction as a number; compare fractions and explain fraction equivalence,</p>	<p>Extend understanding of fraction equivalence; compare, order, and decompose fractions</p> <p>Add, subtract, and multiply fractions</p> <p>Use decimal notation for fractions, comparing decimals to the hundredths place</p>	<p>Add, subtract, multiply and divide fractions</p> <p>Use decimal notation to the thousandths place</p>