

Mathematics K-5

Overview of the Common Core State Standards

	K	1	2	3	4	5
Counting and Cardinality	<ul style="list-style-type: none"> Know number names and the count sequence Count to tell the number of objects Compare numbers 					
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 and subtraction Add and subtract within 20. Work with addition and subtraction equations 	<ul style="list-style-type: none"> Represent and solve problems involving addition and subtraction. Add and subtract within 20. Work with equal groups of objects to gain foundations for multiplication. 	<ul style="list-style-type: none"> Represent and solve problems involving multiplication and division. Understand properties of multiplication and the relationship between multiplication and division. Multiply and divide within 100. Solve problems involving the four operations, and identify and explain patterns in arithmetic. 	<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. Analyze patterns and relationships.
Number and 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. Understand place value. Use place value understanding and properties of operations to add and subtract. 	<ul style="list-style-type: none"> Understand place value. Use place value understanding and properties of operations to add and subtract. 	<ul style="list-style-type: none"> Use place value understanding and properties of operations to perform multi-digit arithmetic. 	<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. 	<ul style="list-style-type: none"> Understand the place value system. Perform operations with multi-digit whole numbers and with decimals to hundredths.
Numbers and Operations – Fractions				<ul style="list-style-type: none"> Develop understanding of fractions as numbers. 	<ul style="list-style-type: none"> Extend understanding of fraction equivalence and ordering Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers. Understand decimal notation for fractions, and compare decimal fractions. 	<ul style="list-style-type: none"> Use equivalent fractions as a strategy to add and subtract fractions. Apply and extend previous understandings of multiplication and division to multiply and divide fractions.
Measurement and Data	<ul style="list-style-type: none"> Describe and compare measurable attributes. Classify objects and count the number of objects in categories. 	<ul style="list-style-type: none"> Measure lengths indirectly and by iterating length units. Tell and write time. 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 and money. Represent and interpret data. 	<ul style="list-style-type: none"> Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects. Represent and interpret data. Geometric measurement: understand concepts of area and relate area to multiplication and addition. Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures. 	<ul style="list-style-type: none"> Solve problems involving measurement and conversion of measurement from a larger unit to a smaller unit. Represent and interpret data. Geometric measurement: understand concepts of angle and measure angles. 	<ul style="list-style-type: none"> Convert like measurement units within a given measurement system. Represent and interpret data. Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.
Geometry	<ul style="list-style-type: none"> Identify and describe shapes Analyze, compare, create, and compose shapes. 	<ul style="list-style-type: none"> Reason with shapes and their attributes. 	<ul style="list-style-type: none"> Reason with shapes and their attributes. 	<ul style="list-style-type: none"> Reason with shapes and their attributes. 	<ul style="list-style-type: none"> Draw and identify lines and angles, and classify shapes by properties of their lines and angles. 	<ul style="list-style-type: none"> Graph points on a coordinate plane to solve real-world and mathematical problems. Classify two-dimensional figures into categories based on their properties.