

Mathematics Curriculum Map								
K	1	2	3	4	5	6	7	8
K: Counting & Cardinality *Know number names and the Count Sequence *Count to tell the number of objects *Compare numbers						6-8: Ratios & Proportional Relationships 6* Understand ratio concepts and use ratio reasoning to solve problems 7* Analyze proportional relationships and use them to solve real-world and mathematical problems		
K-5: Operations & Algebraic Thinking K* Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from 1* Represent and solve problems involving addition & subtraction 1* Understand and apply properties of operations and the relationship between addition and subtraction 1* Add and Subtract 1* Work with addition and subtract equations 2* Represent and solve problems involving addition and subtraction 2* Add and subtract 2* Work with equal groups of objects to gain foundations for multiplication 3* Represent and solve problems involving multiplication and division 3* Understand properties of multiplication and the relationship between multiplication and division 3* Multiply and divide 3* Solve problems involving the four operations, and identify and explain patterns in arithmetic 4* Use the four operations with whole numbers to solve problems 4* Gain familiarity with fractions and multiples 4* Generate and analyze patterns 5* Write and interpret numerical expressions 5* Analyze patterns and relationships						6-8: The Number System 6* Apply and extend previous understanding of multiplication and division to divide fractions by fractions 6* Compute fluently with multi-digit numbers and find common factors and multiples 6* Apply and extend previous understandings of numbers to the system of rational numbers 7* Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers 8* Know that there are numbers that are not rational, and approximate them by rational numbers		
K-5: Number & Operations in Base Ten K* Work with Numbers to gain foundations for place value 1* Extend the counting sequence 1* Understand place value 1* Use place value understanding and properties of operations to add and subtract 2* Understand place value 2* Use place value understanding and properties of operations to add & subtract 3* Use place value understanding and properties of operations to perform multi-digit arithmetic 4* Generalize place value understanding for multi-digit whole numbers 4* Use place value understanding and properties of operations to perform multi-digit arithmetic 5* Understand the place value system 5* Perform operations with multi-digit whole numbers and with decimals						6-8: Expressions & Equations 6* Apply and extend previous understandings of arithmetic to algebraic expressions 6* Reason about and solve one-variable equations and inequalities 6* Represent and analyze quantitative relationships between dependent and independent variables 7* Use properties of operations to generate equivalent expressions 7* Solve real-life and mathematical problems using numerical and algebraic expression and equations 8* Work with radicals and integer exponents 8* Understand the connections between proportional relationships, lines, and linear equations 8* Analyze & solve linear equations and pairs of simultaneous linear equations		
			3-5: Number & Operations-Fractions 3* Develop understanding of fractions as numbers 4* Extend understanding of fraction equivalence and ordering 4* Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers					8: Functions 8* Define, evaluate, and compare functions 8* Use functions to model relationships between quantities

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			4* Understand decimal notation for fractions, and compare decimal fractions 5* Use equivalent fractions as a strategy to add and subtract fractions 5* Apply and extend previous understanding of multiplication and division to multiply and divide fractions					
<p style="text-align: center;">K-6: Measurement & Data</p> K* Describe and compare measurable attributes K* Classify objects and count the number of objects in categories 1* Measure lengths indirectly and by iterating length units 1* Tell and write time 1* Represent and interpret data 2* Measure and estimate lengths in standard units 2* Relate addition and subtraction to length 2* Work with time and money 2* Represent and interpret data 3* Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects 3* Represent and interpret data 3* Geometric measurement: understand concepts of area and relate area to multiplication and to addition 3* Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures 4* Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit 4* Represent and interpret data 4* Geometric measurement: understand concepts of angle and measure angles 5* Convert like measurement units within a given measurement system 5* Represent and interpret data 5* Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition 6* Convert like measurement units within a given measurement system 6* Represent and interpret data 6* Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition								
<p style="text-align: center;">K-8: Geometry</p> K* Identify and describe shapes K* Analyze, compare, create, and compose shapes 1* Reason with shapes and their attributes 2* Reason with shapes and their attributes 3* Reason with shapes and their attributes 4* Draw and identify lines and angles, and classify shapes by properties of their lines and angles 5* Graph points on the coordinate plane to solve real-world and mathematical problems 5* Classify two-dimensional figures into categories based on properties 6* Solve real-world and mathematical problems involving area, surface area, and volume 7* Draw, construct and describe geometrical figures and describe the relationships between them 7* Solve real-life and mathematical problems involving angle measure, area, surface area, and volume 7* Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres 8* Understand congruence and similarity using physical models 8* Understand and apply the Pythagorean Theorem								
						<p style="text-align: center;">6-8: Statistics & Probability</p> 6* Develop understanding of statistical variability 6* Summarize and describe distributions 7* Use random sampling to draw inferences about a population 7* Draw informal comparative inferences about two populations 7* Investigate chance processes, develop, use, & evaluate probability models 8* Investigate patterns of association in bivariate data		

