

# MATH CURRICULUM SCOPE AND SEQUENCE 2019-2020

Grade	Pacing										
	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June	
<b>K</b>	Understanding Numbers 0-10 Decompose and Compose		Two Dimensional and Three Dimensional Shapes	Comparing Length, Weight, Capacity, and Numbers		Addition and Subtraction 0-10 Fluency 0-5; w/manipulatives 6-10		Understanding # 11-20 and Counting to 100	Analyzing, Comparing and Composing Shapes		
<b>1</b>	Add and Subtract within 20		Word Problems			Measurement	Counting and Place Value	Exploring Addition and Subtraction within 100		Geometry	
<b>2</b>	Sums & Differences to 100	Addition & Subtraction of Length Units	Place Value: Counting & Comparison to 1000	Addition & Subtraction within 200		Addition & Subtraction within 1000	Problem Solving with Length, Money, and data	Time, Shapes, Fractions as Equal Parts of Shapes		Foundations of Multiplication and Division	
<b>3</b>	Conceptual Understanding Multiplication and Division	Strategies for Multiplication and Division		Place Value and Problem Solving with Units of Measure		Fractions as Numbers on the Number Line	Collecting and Displaying Data	Understanding Area	Geometry, Measurement and Perimeter		
<b>4</b>	Place Value: Multi-digit Addition and Subtraction	Conceptual Multi-digit Multiplication	Conceptual Multi-digit Division	Fraction Equivalence, Ordering, and Operations		Decimal Fractions	Geometric Measurement and Classification	Problem Solving with Measurement			
<b>5</b>	Understanding Place Value	Computing with Whole Numbers and Decimals		Convert Like Measurement Units Within a Given Measurement System		Adding and Subtracting Fractions		Making Sense of Multiplication of Fractions	Understanding Division of a Unit Fraction and a Whole Number	Algebraic Connections Written Expressions-Numerical Patterns-Graphing	Classifying 2-Dimensional Figures
<b>6</b>	Using Expressions and Equations Part 1	Using Expressions and Equations Part 2	Operating with Positive Rational Numbers		Algebraic Reasoning		Applications of Geometry	Ratios and Rates	Statistics and Distribution	Understanding Positive and Negative Numbers	
<b>7</b>	Ratios and Proportions		Operating with Rational Numbers		Expressions and Equations	Inequalities	Percent's	Probability	Two Dimensional Geometry	Three Dimensional Geometry	

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	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June		
<b>8</b>	Two Dimensional Geometry		Solving Linear Equations		Graphing Linear Equations		Systems of Equations	Exponents	Patterns in Data	Volume		
<b>Algebra I</b>	Linear Equations and Inequalities	Functions	Linear Functions		Data & Statistics	Systems of Linear Equalities and Inequalities	Radicals and Exponents		Graph and Solve Quadratics Equations	Factor and Solve Quadratics Equations		Exponential Functions
<b>Algebra II</b>	Graphing Parent Functions & Transformations		Solving Quadratic Equations		Polynomials Functions			Radical and Rational Exponents Function		Logarithmic and Exponential Functions	Data and Statistics	
<b>Geo</b>	Constructions and Angles	Transformations	Congruence		Similarity	Trigonometry	Extend to Three Dimensions	Connecting to Algebra	Circles			
<b>Pre-Calculus</b>	Exponential and Log Functions		Rational Functions		Trigonometry				Analytic Trigonometry		Vectors	
<b>Calculus</b>	Functions	Limits and Derivatives			Derivatives		Applications of Differentiation	Integrals		Applications of Integrals		
<b>College Algebra</b>	Problem Solving and Critical Thinking	Number Theory and the Real Number System		Algebra: Equations and Inequalities		Algebra: Graphs, Functions, and Linear Systems		Set Theory		Logic		
<b>Math with Business Applications</b>	Gross Pay	Net Pay and Budgets	Banking Services		Loans and Credit Cards		Wise Spending	Own a Home or Car	Insurance	Investments		
<b>Probability and Statistics</b>	Terminology of Data and Statistics	Descriptive Statistics	Probability		Discrete Probability and Distributions	Normal Probability and Distributions		Confidence Intervals	Hypothesis Testing with One Sample	Hypothesis Testing with Two Samples	Correlation and Regression	