

Mathematics Scope and Sequence: Kindergarten – Grade 6
2016 – 2017

Grade	September	October	November	December	January	February	March	April	May	June
Kindergarten	Getting started with mathematics	Continue exploring 2-dimensional shapes/sorting and classifying	Continue patterns	Exploring numbers 0 - 10	Continue exploring numbers 0 - 20	Continue addition within 10	Continue subtraction within 10	Continue decomposing numbers less than or equal to 10	Continue exploring numbers beyond 10 (focus on 11-20)	Continue measurement: length, & width
	Exploring 2-dimensional shapes/Sorting and classifying	Patterns	Counting to 10		Addition within 10	Subtraction within 10	Decomposing numbers less than or equal to 10	Exploring numbers beyond 10 (focus on 11-20)	Measurement: length, & width	3-dimensional shapes
Grade 1	Reviewing number concepts to 20: -Count, order, compare, decompose -Sort, classify	Extending number concepts to 120: -Read, write numerals -Compare using greater than, less than, equal	Continue understanding addition and subtraction	Continue addition strategies	Continue addition strategies	Continue understanding place value: -Add a 2-digit and 1-digit number -Add a 2-digit number and multiples of 10.	Continue subtraction strategies:	Continue time and money	Continue geometry concepts	Continue measurement
		Understanding addition and subtraction: -Model and solve problems using concrete objects	Addition strategies: -Understand and use different strategies to solve addition problems		Understanding place value: -Represent numbers as tens/ones -Make exchanges with ones/tens	Subtraction strategies: -Understand and use different strategies to solve subtraction problems	Time and money: -Recognize and identify pennies, nickels, dimes -Solve money problems -Tell and write times in hours/half-hours using analog/digital clocks	Geometry concepts: -Recognize, name 2-dimensional & 3-dimensional shapes -Describe & compare attributes	Measurement: -Collect, record, analyze, and interpret data in graphs/charts.	
Grade 2	Number sense: -Apply a variety of strategies for adding numbers. -Recall addition/subtraction facts to 20.	Continue number sense	Continue number sense	Continue addition	Continue addition	Continue subtraction	Continue data analysis and measurement	Continue data analysis and measurement	Continue fractions	Continue geometry
			Addition: -Construct and model numerals up to 4 digits. -Model addition using partial		Subtraction: -Model the subtraction of 2-digit numbers with and without regrouping.	Data analysis and measurement: -Read, interpret, and analyze		Fractions: -Demonstrate an understanding of commonly used fractions.	Geometry: -Identify, classify, and describe standard 2- and 3-dimensional	Introduction to Multiplication (optional, if time)

			sums and regrouping.			horizontal and vertical displays of data.- -Tell time using digital and analog clocks.		-Compare/order fractions with same denominators.	shapes.	
Grade 3	Number sense -Read, write, rename numbers -Identify place value and periods up to 6 digits -Round numbers	Continue addition	Continue subtraction	Continue multiplication	Continue division	Continue measurement unit 1	Continue fractions	Continue geometry	Continue measurement unit 2	Continue data analysis
	Addition -Add 2, 3, and 4 digit number with/without regrouping -Use and identify multiplication properties	Subtraction -Subtract 2, 3, and 4 digit number with/without regrouping -Find missing numbers in input/output tables	Multiplication -Know multiplication facts to 12. -Multiply 2-digit numbers by 1-digit numbers using Partial Sums	Division -Understand the concept of division and as an inverse of multiplication -Know division facts up to products of 144	Measurement Unit 1 -Find area and perimeter of regular and composite figures	Fractions -Demonstrate conceptual understanding of a fraction and commonly used fractions -Represent fractions in different ways	Geometry -Identify and classify shapes according to their attributes	Measurement Unit 2 -Tell and write time -Measure lengths of objects	Data analysis -Collect, generate, organize, and display data -Read, interpret and analyze data displays	
Grade 4	Number sense -Model, read, and write numbers up to the hundred-millions. -Write numbers in different forms.	Addition, subtraction, & problem-solving -Add and subtract up to 9-digit numbers with/without regrouping	Multiplication -Show mastery of multiplication facts 0-12 -Use and apply multiplication properties -Multiply multi-digit numbers using different strategies -Area and perimeter	Division -Understand the concept of division -Show mastery of division facts up to a quotient of 144 -Apply divisibility rules for 2, 3, 5, 6, 9, and 10.	Continue division	Continue fractions	Continue fractions & decimals	Continue measurement and data	Patterns and Algebra -Describe non-numeric growing and repeating patterns -Identify, describe, and extend numeric patterns -Find/use rules to write input/output tables	Geometry -Classify shapes based on attributes -Recognize and measure angles
					Fractions - Demonstrate conceptual understanding of a fraction - Add/subtract fractions with like denominators and mixed numbers with/without	Fractions & Decimals -Use place value charts/grids to represent decimals. -Read/write decimals to the thousandths place -Add/subtract	Measurement & Data -Express measurements in a larger unit in terms of a smaller unit -Use a ruler to measure an object's length -Convert customary and			

					regrouping	decimals to the thousandths place	metric units -Make a line plot to display data measurements			
Grade 5	Number sense -Model, read, and write numbers to the billions -Write numbers in different forms -Work with integers and estimates	Multiplication -Define and apply divisibility rules -Apply and use mathematical properties -Identify prime numbers, GCF, and LCM	Division -Understand the concept of division as fair sharing, creating equal groups, and repeated subtraction. -Divide numbers using traditional algorithm	Fractions -Identify and compare fractions -Add, subtract, multiply, and divide fractions with like and unlike denominators	Continue fractions	Continue decimals	Continue geometry & measurement	Patterns & Algebra -Identify, describe, and extend numeric patterns -Use the Order of Operations to solve problems -Solve equations and evaluate expressions with variables	Data analysis -Collect, organize, and display data in response to surveys -Construct, read and interpret data displays -Identify measures of central tendencies	Continue data analysis
					Decimals -Read and write decimals to ten-thousandths place - Add, subtract, multiply, and divide decimals	Geometry and Measurement -Use a ruler to measure in customary and metric units -Convert customary and metric units of measurement -Identify shapes and their attributes -Use models and formulas to find the volume of a rectangular prism				
Grade 6	Numerical Expressions and Factors -Multiplication and division of multi-digit numbers -Order of operations -GCF, LCM	Fractions -Estimate, order, compare, locate on a number line -Add, subtract, multiply, divide -Order of operations	Decimals -Read and write numbers to millionths -Add, subtract, multiply, divide - Order of operations	Expressions -Use and apply multiplication properties -Evaluate algebraic expressions	Continue equations & inequalities	Continue integers	Continue ratio, proportion, percent	Continue geometry	Statistics and Probability -Construct, organize, interpret, and display data -Calculate measures of central tendency	Continue statistics and probability
				Equations & Inequalities	Integers -Identify and	Ratio, Proportion,	Geometry -Areas of			

				<ul style="list-style-type: none">-Write and solve equations and inequalities in one variable-Write equations in two variables	<ul style="list-style-type: none">define-Order, compare, find absolute values-Graph points on the coordinate plane	<ul style="list-style-type: none">Percent-Define and graph-Define and determine rate, unit rate-Solve proportions-Calculate and apply percents	<ul style="list-style-type: none">polygons-Volume of right rectangular prisms-Represent 3-D figures using nets			
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