

4th Grade Math Curriculum Map

Course Title: Math

UNIT/ORGANIZING PRINCIPLE: Numbers and Operation in Base Ten

PACING: 9 days

UNIT NUMBER: Ch. 1 Place Value

ESSENTIAL QUESTIONS:				
CONCEPTS/ CONTENT (outcomes)	LEARNING TARGETS/SKILLS (Performance Tasks)	BENCHMARKS	KEY TERMINOLOGY	ACTIVITIES/ RESOURCES
4.NBT.1	I can identify place value of digits in multi-digit numbers.	Lesson assessments pre and post test	Digit	MY Math online tools/resources
4.NBT.2	I can read and write multi-digit whole numbers.	Check My Progress	Place value	Study Island
4.NBT.2	I can compare numbers using a number line and a place-value chart.	Benchmark Test	Expanded form	Smart Notebook interactive lessons
4.NBT.2	I can order numbers by using a place-value chart and comparing the digit values.		Period	
4.NBT.3	I can estimate numbers by rounding.		Standard form	
4.NBT.2	I can use the four-step plant to solve problems.		Word form	
			Is equal to = Is greater than > Is less than < Number line	

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UNIT/ORGANIZING PRINCIPLE: Numbers and Operation in Base Ten

PACING: 12 days

UNIT NUMBER: Ch. 2 Add and Subtract Whole Numbers

ESSENTIAL QUESTIONS:				
CONCEPTS/ CONTENT (outcomes)	LEARNING TARGETS/SKILLS (Performance Tasks)	BENCHMARKS	KEY TERMINOLOGY	ACTIVITIES/ RESOURCES
4.NBT.4	I can use addition properties and subtraction rules to add and subtract.	Lesson assessments pre and post test	Commutative property of addition	MY Math online tools/resources
4.NBT.4	I can use patterns to solve addition and subtraction problems.	Check My Progress	Associative property of addition	Study Island
4.NBT.4	I can use mental math to add and subtract.	Benchmark Test	Identity property of addition	Smart Notebook interactive lessons
4.NBT.3	I can estimate sums and differences of multi-digit numbers.		Unknown	
4.NBT.4	I can add multi-digit whole numbers.		Minuend	
4.NBT.4	I can subtract multi-digit whole numbers.		Subtrahend	
4.NBT.4	I can subtract multi-digit numbers, when some digits are zeros.		Equation	
4.NBT.4	I can solve problems by drawing a diagram.		Variable	
4.OA.3	I can solve multi-digit word problems using addition and subtraction.			

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UNIT/ORGANIZING PRINCIPLE: Numbers and Operation in Base Ten

PACING: 11 days

UNIT NUMBER: Ch. 3 Understand Multiplication and Division

ESSENTIAL QUESTIONS:				
CONCEPTS/ CONTENT (outcomes)	LEARNING TARGETS/SKILLS (Performance Tasks)	BENCHMARKS	KEY TERMINOLOGY	ACTIVITIES/ RESOURCES
4.NBT.5	I can understand how multiplication and division are related.	Lesson assessments pre and post test	Dividend Divisor Fact family	MY Math online tools/resources
4.NBT.6	I can relate division and subtraction.	Check My Progress	Factor Quotient	Study Island
4.OA.1	I can recognize the comparison of two groups as another strategy to use when multiplying.	Benchmark Test	Product Repeated addition Commutative property of multiplication	Smart Notebook interactive lessons
4.OA.2	I can use comparisons to solve problems.		Identity Property of multiplication	
4.NBT.5	I can use multiplication properties and division rules.		Zero property of multiplication	
4.NBT.5	I can use the associative property of multiplication to solve problems.		Associative property of multiplication	
4.OA.4	I can find factors and multiples of whole numbers.		Decompose	
4.OA.2	I can check answers for reasonableness.		Multiple	

Course Title: Math

UNIT/ORGANIZING PRINCIPLE: Numbers in Operation in Base Ten

PACING: 14 days

UNIT NUMBER: Ch. 4 Multiply with One-Digit Numbers

ESSENTIAL QUESTIONS:				
CONCEPTS/CONTENT (outcomes)	LEARNING TARGETS/SKILLS (Performance Tasks)	BENCHMARKS	KEY TERMINOLOGY	ACTIVITIES/RESOURCES
4.NBT.1 4.NBT.3 4.NBT.5 4.NBT.5 4.NBT.5 4.NBT.5 4.NBT.5 4.NBT.5 4.NBT.5 4.NBT.5 4.NBT.5 4.NBT.5	I can multiply multiples of 10, 100, and 1,000 using basic facts and patterns. I can estimate products by rounding. I can explore multiplication using models. I can explore multiplication using area models and partial products. I can multiply a two-digit number by a one-digit number. I can explore multiplication with regrouping using models. I can use the distributive property to make multiplication easier. I can multiply a two-digit number by a one-digit number. I can multiply a multi-digit number by a one-digit number. I can determine if a problem needs an estimate or exact answer. I can multiply multi-digit numbers with zeros by a one-digit number.	Lesson assessments pre and post test Check My Progress Benchmark Test	Partial products Regroup Distributive property	MY Math online tools/resources Study Island Smart Notebook interactive lessons

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UNIT/ORGANIZING PRINCIPLE: Numbers in Operation in Base Ten

PACING: 9 days

UNIT NUMBER: Ch. 5 Multiply with Two-Digit Numbers

ESSENTIAL QUESTIONS:				
CONCEPTS/ CONTENT (outcomes)	LEARNING TARGETS/SKILLS (Performance Tasks)	BENCHMARKS	KEY TERMINOLOGY	ACTIVITIES/ RESOURCES
4.NBT.5	I can use properties and algorithms to multiply by tens.	Lesson assessments pre and post test	Operation	MY Math online tools/resources
4.NBT.3	I can estimate products by rounding.	Check My Progress		Study Island
4.NBT.5	I can explore multiplying by two-digit numbers.	Benchmark Test		Smart Notebook interactive lessons
4.NBT.5	I can multiply two, two digit numbers.			
4.OA.3	I can use multiplication to solve multi-step word problems.			
4.NBT.5	I can solve problems by making a table.			

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UNIT/ORGANIZING PRINCIPLE: Numbers in Operation in Base Ten

PACING: 14 days

UNIT NUMBER: Ch. 6 Divide by a One-Digit Number

ESSENTIAL QUESTIONS:				
CONCEPTS/ CONTENT (outcomes)	LEARNING TARGETS/SKILLS (Performance Tasks)	BENCHMARKS	KEY TERMINOLOGY	ACTIVITIES/ RESOURCES
4.NBT.1	I can use basic facts and patterns to divide mentally.	Lesson assessments pre and post test	Compatible numbers Remainder Partial quotients	MY Math online tools/resources
4.NBT.3	I can estimate quotients using compatible numbers, basic facts, and place values.	Check My Progress		Study Island
4.NBT.6	I can use place value and models to explore dividing by one-digit numbers.	Benchmark Test		Smart Notebook interactive lessons
4.NBT.6	I can solve problems by making a model.			
4.NBT.6	I can divide with remainders and check using multiplication and addition.			
4.NBT.6	I can interpret what the remainder means in the context of a division problem.			
4.NBT.6	I can determine where to place the first digit when dividing.			
4.NBT.6	I can use the distributive property and partial quotients to divide.			
4.NBT.6	I can solve division problems with greater numbers.			
4.NBT.6	I can solve division problems that result in quotients that have zeros.			
4.OA.3	I can solve multi-step word problems using more than one operation.			

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UNIT/ORGANIZING PRINCIPLE: Operations in Algebraic Thinking

PACING: 12 days

UNIT NUMBER: Ch. 7 Patterns and Sequences

ESSENTIAL QUESTIONS:				
CONCEPTS/ CONTENT (outcomes)	LEARNING TARGETS/SKILLS (Performance Tasks)	BENCHMARKS	KEY TERMINOLOGY	ACTIVITIES/ RESOURCES
4.OA.5	I can describe nonnumeric growing and repeating patterns.	Lesson assessments pre and post test	Pattern Nonnumeric pattern Numeric pattern	MY Math online tools/resources
4.OA.5	I can identify, describe, and extend numeric patterns.	Check My Progress	Rule Term	Study Island
4.OA.5	I can extend patterns and write observations about the patterns.	Benchmark Test	Sequence Input Output	Smart Notebook interactive lessons
4.OA.5	I can look for a pattern to solve problems.			
4.OA.5	I can find and use rules to write addition and subtraction equations.			
4.OA.5	I can find and use rules to write multiplication and division equations.			
4.OA.3	I can use the order of operations to solve problems.			
4.OA.5	I can explore equations with two operations.			
4.OA.5	I can use table to recognize and write equations with two or more operations.			

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UNIT/ORGANIZING PRINCIPLE: Number and Operation-Fractions

PACING: 13 days

UNIT NUMBER: Ch. 8 Fractions

ESSENTIAL QUESTIONS:				
CONCEPTS/ CONTENT (outcomes)	LEARNING TARGETS/SKILLS (Performance Tasks)	BENCHMARKS	KEY TERMINOLOGY	ACTIVITIES/ RESOURCES
4.OA.4	I can find factors and multiples of whole numbers.	Lesson assessments pre and post test	Factor pairs	MY Math online tools/resources
4.OA.4	I can determine if a number is prime or composite.	Check My Progress	Prime number	Study Island
4.NF.1	I can explore equivalent fractions.	Benchmark Test	Composite number	Smart Notebook interactive lessons
4.NF.1	I can find equivalent fractions.		Numerator	
4.NF.1	I can write a fraction in simplest form.		Denominator	
4.NF.2	I can compare and order fractions.		Equivalent fractions	
4.NF.2	I can use benchmark fractions to compare and order fractions.		Simplest form	
4.NF.2	I can use logical reasoning to solve problems.		Greatest common factor	
4.NF.3b	I can represent mixed numbers by decomposing them into a sum of whole numbers and unit fractions.		Least common factor	
4.NF.3	I can write mixed numbers and improper fractions.		Benchmark fractions	
			Mixed number	
			Improper fraction	

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UNIT/ORGANIZING PRINCIPLE: Number and Operations-Fractions

PACING: 12 days

UNIT NUMBER: Ch. 9 Operations and Fractions

ESSENTIAL QUESTIONS:				
CONCEPTS/ CONTENT (outcomes)	LEARNING TARGETS/SKILLS (Performance Tasks)	BENCHMARKS	KEY TERMINOLOGY	ACTIVITIES/ RESOURCES
4.NF.3a	I can use models to add like fractions.	Lesson assessments pre and post test	Like fractions	MY Math online tools/resources
3.NF.3b	I can add like fractions.	Check My Progress		Study Island
4.NF.3a	I can use models to subtract like fractions.	Benchmark Test		Smart Notebook interactive lessons
4.NF.3a	I can subtract like fractions.			
4.NF.3d	I can work backward to solve problems.			
4.NF.3c	I can add mixed numbers.			
4.NF.3c	I can subtract mixed numbers.			
4.NF.4a	I can use models to multiply fractions.			
4.NF.4b	I can multiply fractions by whole numbers.			

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UNIT/ORGANIZING PRINCIPLE: Numbers and Operations-Fractions

PACING: 11 days

UNIT NUMBER: Ch. 10 Fractions and Decimals

ESSENTIAL QUESTIONS:				
CONCEPTS/ CONTENT (outcomes)	LEARNING TARGETS/SKILLS (Performance Tasks)	BENCHMARKS	KEY TERMINOLOGY	ACTIVITIES/ RESOURCES
4.NF.6	I can explore using place value charts and grids to model decimals.	Lesson assessments pre and post test	Decimal Tenth Hundredth	MY Math online tools/resources
4.NF.6	I can model and describe tenths as part of the base-ten systems.	Check My Progress		Study Island
4.NF.6	I can model and describe hundredths as part of the base-ten system.	Benchmark Test		Smart Notebook interactive lessons
4.NF.5	I can explore using grids and number lines to model the relationship between decimals and fractions.			
4.NF.5	I can identify, read, and write tenths and hundredths as decimals and fractions.			
4.NF.5	I can use place value and equivalent fractions to add two fractions with respective denominators 10 and 100.			
4.NF.7	I can compare and order decimals to hundredths by reasoning about their size.			
4.NF.5	I can find extra or missing information when solving problems.			

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UNIT/ORGANIZING PRINCIPLE: Measurement and Data

PACING: 13 days

UNIT NUMBER: Ch.11 Customary Measurement

ESSENTIAL QUESTIONS:				
CONCEPTS/ CONTENT (outcomes)	LEARNING TARGETS/SKILLS (Performance Tasks)	BENCHMARKS	KEY TERMINOLOGY	ACTIVITIES/ RESOURCES
4.MD.1	I can estimate and measure length using customary units.	Lesson assessments pre and post test	Customary system Foot (ft) Yard (yd)	MY Math online tools/resources
4.MD.1	I can convert units of length.	Check My Progress	Convert Mile	Study Island
4.MD.1	I can estimate and measure customary capacities.	Benchmark Test	Capacity Cup (c) Fluid ounce (fl oz)	Smart Notebook interactive lessons
4.MD.1	I can convert customary units of capacity.		Gallon (gal) Pint (pt)	
4.MD.1	I can estimate and measure customary units of weight.		Quart (qt) Ounce (oz)	
4.MD.1	I can convert customary units of weight.		Pound (lb) Ton (T)	
4.MD.1	I can convert units of time.		Weight Seconds	
4.MD.4	I can display measurement data in a line plot.		Line plot	
4.MD.2	I can solve problems involving measurement.			
4.MD.2	I can solve problems using the guess, check, and revise strategy.			

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UNIT/ORGANIZING PRINCIPLE: Measurement and Data

PACING: 9 days

UNIT NUMBER: Ch. 12 Metric Measurement

ESSENTIAL QUESTIONS:				
CONCEPTS/ CONTENT (outcomes)	LEARNING TARGETS/SKILLS (Performance Tasks)	BENCHMARKS	KEY TERMINOLOGY	ACTIVITIES/ RESOURCES
4.MD.1	I can estimate and measure lengths within the metric system.	Lesson assessments pre and post test	Centimeters (cm) Kilometers (km) Meter (m)	MY Math online tools/resources
4.MD.1	I can estimate and measure metric capacities.	Check My Progress	Metric system Millimeter (mm)	Study Island
4.MD.1	I can estimate and measure mass and learn the difference between weight and mass.	Benchmark Test	Liter (L) Milliliter (mL) Gram (g) Kilogram (kg) Mass	Smart Notebook interactive lessons
4.MD.2	I can make an organized list to solve problems.			
4.MD.1	I can convert metric units.			
4,MD.2	I can solve problems involving measurement.			

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UNIT/ORGANIZING PRINCIPLE: Measurement and Data

PACING: 7 days

UNIT NUMBER: Ch. 13 Perimeter and Area

ESSENTIAL QUESTIONS:				
CONCEPTS/ CONTENT (outcomes)	LEARNING TARGETS/SKILLS (Performance Tasks)	BENCHMARKS	KEY TERMINOLOGY	ACTIVITIES/ RESOURCES
4.MD.3	I can find the perimeter of a figure.	Lesson assessments pre and post test	Perimeter Unit square Square unit Area	MY Math online tools/resources
4.MD.3	I can solve a simpler problem to solve problems.	Check My Progress		Study Island
4.MD.3	I can explore the area of a figure.	Benchmark Test		Smart Notebook interactive lessons
4.MD.3	I can find the area of rectangles and squares.			
4.MD.3	I can relate area to perimeter.			

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UNIT/ORGANIZING PRINCIPLE: Geometry

PACING: 14 days

UNIT NUMBER: Ch. 14 Geometry

ESSENTIAL QUESTIONS:				
CONCEPTS/ CONTENT outcomes	LEARNING TARGETS/SKILLS (Performance Tasks)	BENCHMARKS	KEY TERMINOLOGY	ACTIVITIES/ RESOURCES
4.G.1	I can draw points, lines, line segments, and rays and identify these in two-dimensional figures.	Lesson assessments pre and post test	Point	MY Math online tools/resources
4.G.1	I can draw parallel, intersecting, and perpendicular lines and identify these in two-dimensional figures.	Check My Progress	Line	Study Island
4.MD.5a	I can understand concepts of angles and angle measurement.	Benchmark Test	Ray	
4.MD.5b	I can use concepts of angle measurement to classify angles.		Endpoint	
4.MD.6	I can use a protractor to measure angles to the nearest degree.		Line segment	
4.MD.6	I can use a protractor to draw angles of a specified measure.		Parallel	Smart Notebook interactive lessons
4.MD.7	I can solve addition and subtraction problems to find unknown angles on a diagram in real-world and mathematical situation.		Intersecting	
4.G.2	I can classify triangles based on angle measure and describe triangles using their attributes.		Perpendicular	
4.G.2	I can classify quadrilaterals using their attributes.		Angle	
4.G.3	I can identify figures with line symmetry and draw lines of symmetry.		Degree	
4.G.1	I can solve problems by making a model.		One degree angle	
			Right angle	
			Acute angle	
			Obtuse angle	
			Right triangle	
			Acute triangle	
			Obtuse triangle	
			Parallelogram	
			Rectangle	
			Rhombus	
			Square	
			Trapezoid	
			Line symmetry	
			Line of symmetry	

