4th Grade Math Curriculum Map

Trimester	Content	Lessons
Trimester 1	**Place Value and Operations with Whole Numbers**	**Lesson 1:** Place Value, Addition, and Subtraction to One Million **Lesson 2:** Multiply by 1-Digit Numbers **Lesson 3:** Multiply by 2-Digit Numbers **Lesson 4:** Divide by 1-Digit Numbers **Lesson 5:** Factors, Multiples, and Patterns
Trimester 2	**Fractions and Decimals**	**Lesson 6:** Fraction Equivalence and Comparison **Lesson 7:** Add and Subtract Fractions **Lesson 8:** Multiply Fractions by Whole Numbers **Lesson 9:** Relate Fractions and Decimals
Trimester 3	**Geometry, Measurement, and Data**	**Lesson 10:** Two-Dimensional Figures **Lesson 11:** Angles **Lesson 12:** Relative Sizes of Measurement Units **Lesson 13:** Algebra: Perimeter and Area

CURRICULUM MAP

Teacher: Mr. Farley____ Course:_____Math

UNIT Title & Time	ESSENTIAL QUESTIONS	CONTENT	SKILLS	ASSESSMENTS	INSTRUCTIONAL STRATEGIES	STANDARDS	RESOURCES
Lesson 1	-How can you describe the value of a digit? -How can you read and write numbers through hundred thousand -How can you compare and order numbers? -How can you round numbers? -How can you rename a whole number? -How can you add whole numbers? -How can you subtract whole numbers? -How can you use the strategy draw a diagram to solve comparison problems with addition and subtraction?	**1.1** Model Place Value Relationships **1.2** Read and Write Numbers **1.3** Compare and Order Numbers **1.4** Round Numbers **1.5** Rename Numbers **1.6** Add Whole Numbers **1.7** Subtract Whole Numbers **1.8** Problem Solving-Comparison Problems with Addition and Subtraction				**4.NBT.1** **4.NBT.2** **4.NBT.3** **4.NBT.4**	-Book -Videos -Objects
Lesson 2	-How can you model multiplication comparisons? -How does a model help you solve a comparison problem? -How does understanding place value help you multiply tens, hundreds, and thousands? -How can you estimate products by rounding and determine if exact answers are reasonable? -How can you use the Distributive Property to multiply a two-digit number by a one-digit number? -How can you use the expanded form to multiply a multidigit number	**2.1** Multiplication Comparisons **2.2** Comparison Problems **2.3** Multiply Tens, Hundreds, and Thousands **2.4** Estimate Products **2.5** Multiply Using the Distributive Property **2.6** Multiply Using Expanded Form **2.7** Multiply Using Partial Products **2.8** Multiply Using Mental Math **2.9** Problem Solving Multistep Multiplication Problems **2.10** Multiply 2-Digit Numbers with Regrouping **2.11** Multiply 3-Digit and 4-Digit Numbers with Regrouping **2.12** Solve Multistep Problems Using Equations				**4.OA.1** **4.OA.2** **4.OA.3** **4.NBT.5**	-Book -Videos -Objects

	by a 1-digit number? -How can you use place value and partial products to multiply by a 1-digit number? -How can you use mental math and properties to help you multiply numbers? -When can you use the draw a diagram strategy to solve a multistep multiplication problem? -How can you use regrouping to multiply a 2-digit number by a 1-digit number? -How can you use regrouping to multiply? -How can you represent and solve multistep problems using equations?						
Lesson 3	-What strategies can you use to multiply by tens? -What strategies can you use to estimate products? -How can you use area models and partial products to multiply 2-digit numbers? -How can you use place value and partial products to multiply 2-digit numbers? -How can you use regrouping to multiply 2-digit numbers? -How can you find record products of two 2-digit numbers? -How can you use the strategy draw a diagram to solve multistep multiplication problems?	**3.1** Multiply by Tens **3.2** Estimate products **3.3** Area Models and Partial Products **3.4** Multiply Using Partial Products **3.5** Multiply and Regrouping **3.6** Choose a Multiplication Method **3.7** Problem Solving-Multiply 2-Digit Numbers				**4.OA.3** **4.NBT.5**	-Book -Videos -Objects

Lesson 4	-How can you use multiples to estimate quotients? -How can you use models to divide whole numbers that do not divide evenly? -How can you use remainders in division problems? -How can you divide numbers through thousands by whole numbers through 10? -How can you use compatible numbers to estimate quotients? -How can you use the Distributive Property to find quotients? -How can you use repeated subtraction and multiples to find quotients? -How can you use partial quotients to divide by 1-digit divisors? -How can you use base-ten blocks to model division with regrouping? -How can you use place value to know where to place the first digit in a quotient? -How can you divide multidigit numbers and check your answers? -How can you use the strategy to draw a diagram to solve multistep division problems?	**4.1** Estimate Quotients Using Multiples **4.2** Remainders **4.3** Interpret the Remainder **4.4** Divide Tens, Hundreds, and Thousands **4.5** Estimate Quotients Using Compatible Numbers **4.6** Division and the Distributive Property **4.7** Divide Using Repeated Subtraction **4.8** Divide Using Partial Quotients **4.9** Model Division with Regrouping **4.10** Place the First Digit **4.11**Divide by 1-Digit Numbers **4.12** Problem Solving-Multistep Division Problems				**4.OA.3** **4.NBT.6**	-Book -Videos -Objects
Lesson 5	-How can you use models to find factors? -How can you tell whether one number is a factor of another number?	**5.1** Model Factors **5.2** Factors and Divisibility **5.3** Problem Solving-Common Factors **5.4** Factors and Multiples				**4.OA.4** **4.OA.5**	-Book -Videos -Objects

	-How can you use the make a list strategy to solve problems with common factors? -How are factors and multiples related? -How can you tell whether a number is prime or composite? -How can you make and describe patterns?	**5.5** Prime and Composite Numbers **5.6** Number Patterns					
Lesson 6	-How can you use models to show equivalent fractions? -How can you use multiplication to find equivalent fractions? -How can you write a fraction as an equivalent fraction in the simplest form? -How can you write a pair of fractions as fractions with a common denominator? -How can you use the strategy make a table to solve problems using equivalent fractions? -How can you use benchmarks to compare fractions? -How can you compare fractions? -How can you order fractions?	**6.1** Equivalent Fractions **6.2** Generate Equivalent Fractions **6.3** Simplest Form **6.4** Common Denominators **6.5** Problem Solving- Find Equivalent Fractions **6.6** Compare Fractions Using Benchmarks **6.7** Compare Fractions **6.8** Compare and Order Fractions				**4.NF.1** **4.NF.2**	-Book -Videos -Objects
Lesson 7	-When can you add or subtract parts of a whole? -How can you write a fraction as a sum of fractions with the same denominator? -How can you add fractions with like denominators using models? -How can you subtract fractions with like	**7.1** Add and Subtract Parts of a Whole **7.2** Write Fractions as Sums **7.3** Add Fractions Using Models **7.4** Subtract Fractions Using Models **7.5** Add and Subtract Fractions **7.6** Rename Fractions and Mixed Numbers **7.7** Add and Subtract Mixed Numbers **7.8** Subtraction with Renaming				**4.NF.3a** **4.NF.3b** **4.NF.3c** **4.NF.3d**	-Book -Videos -Objects

	denominators using models? -How can you add and subtract fractions with like denominators? -How can you rename mixed numbers as fractions greater than 1 and rename fractions greater than 1 as mixed numbers? -How can you add and subtract mixed numbers with like denominators? -How can you rename a mixed number to help you subtract? -How can you add fractions with like denominators using the properties of addition? -How can you use the strategy act it out to solve multistep problems with fractions?	**7.9** Fractions and Properties of Addition **7.10** Problem SOlving-Multistep Fraction Problems					
Lesson 8	-How can you write a fraction as a product of a whole number and a unit fraction? -How can you write a product of a whole number and a fraction as a product of a whole number and a unit fraction? -How can you use a model to multiply a fraction by a whole number? -How can you multiply a fraction by a whole number to solve a problem? -How can you use the draw a diagram to solve comparison problems with fractions?	**8.1** Multiples of Unit Fractions **8.2** Multiples of Fractions **8.3** Multiply a Fraction by a Whole Number Using Models **8.4** Multiply a Fraction or Mixed Number by a Whole Number **8.5** Problem Solving-Comparison Problems with Fractions				**4.NF.4a** **4.NF.4b** **4.NF.4c**	-Book -Videos -Objects

Lesson 9	-How can you record tenths as fractions and decimals? -How can you record hundredths as fractions and decimals? -How can you record tenths and hundredths as fractions and decimals? -How can you relate fractions, decimals, and money? -How can you use the strategy act it out to solve problems that use money? -How can you add fractions when the denominators are 10 or 100? -How can you compare decimals?	**9.1** Relate Tenths and Decimals **9.2** Relate Hundredths and Decimals **9.3** Equivalent Fractions and Decimals **9.4** Relate Fractions, Decimals, and Money **9.5** Problem Solving-Money **9.6** Add Fractional parts of 10 and 100 **9.7** Compare Decimals				**4.NF.5** **4.NF.6** **4.NF.7** **4.MD.2**	-Book -Videos -Objects
Lesson 10	-How can you identify and draw points, lines, line segments, rays, and angles? -How can you classify triangles by the size of their angles? -How can you classify triangles by the length of their sides? -How can you identify and draw parallel lines and perpendicular lines? -How can you sort and classify quadrilaterals? -How can you check if a shape has line symmetry? -How do you find lines of symmetry? -How can you use the strategy act it out to solve pattern problems?	**10.1** Lines, Rays, and Angles **10.2** Classify Triangles by Angles **10.3** Classify Triangles by Sides **10.4** Parallel Lines and Perpendicular Lines **10.5** Classify Quadrilaterals **10.6** Line Symmetry **10.7** Find and Draw Lines of Symmetry **10.8** Problem Solving-Shape Patterns				**4.OA.5** **4.G.1** **4.G.2** **4.G.3**	-Book -Videos -Objects

Lesson 11	-How can you relate angles and fractional parts of a circle? -How are degrees related to fractional parts of a circle? -How can you use a protractor to measure and draw angles? -How can you determine the measure of an angle separated into parts? -How can you use the strategy to draw a diagram to solve angle measurement problems?	**11.1** Angles and Fractional Parts of a Circle **11.2** Degrees **11.3** Measure and Draw Angles **11.4** Join and Separate Angles **11.5** Problem Solving-Unknown Angle Measures				**4.MD.5a** **4.MD.5b** **4.MD.6** **4.MD.7**	-Book -Videos -Objects
Lesson 12	-How can you use benchmarks to understand the relative sizes of measurement units? -How can you use models to compare customary units of weight? -How can you use models to compare customary units of liquid volume? How can you make and interpret line plots with fractional data? -How can you use models to compare metric units of length? -How can you compare metric units of mass and liquid volume> -How can you use models to compare units of time? -How can you use the strategy draw a diagram to solve elapsed time problems? -How can you solve problems involving mixed measures? -How can you use patterns to write	**12.1** Measurement Benchmarks **12.2** Customary Units of Length **12.3** Customary Units of Weight **12.4** Customary Units of Liquid Volume **12.5** Line Plots **12.6** Metric Units of Length **12.7** MEtric Units of Mass and Liquid Volume **12.8** Units of Time **12.9** Problem Solving-Elapsed Time **12.10** Mixed Measures **12.11** Patterns in Measurement Units				**4.MD.1** **4.MD.2** **4.MD.4**	-Book -Videos -Objects

	number pairs for measurement units?						
Lesson 13	-How can you use a formula to find the perimeter of a rectangle? -How can you use a formula to find the area of a rectangle? -How can you find the area of combined rectangles? -How can you Find an unknown measure of a rectangle given its area or perimeter? -How can you use the strategy to solve a simpler problem to solve area problems?	**13.1** Perimeter **13.2** Area **13.3** Area of Combined Rectangles **13.4** Find Unkown Measures **13.5** Problem Solving-Finding the Area				**4.MD.3**	-Book -Videos -Objects