

Course Title: Fourth Grade Math							
Scope and Sequence							
Grade Level: 4 th			Content Area: Mathematics				
Unit or Topic	Standard(s)	Length of Time	Key Content	Vocabulary	Assessment Tool	Scaffolding Strategies	Resources & Materials
Topic 1: Generalize Place Value Understanding	CC.2.1.4.B.1	8 days	<ul style="list-style-type: none"> -Read and write numbers through one million in expanded form, with numerals, and using number names -Recognize the relationship between adjacent digits in a multi-digit number -Use place value to compare multi-digit whole numbers -Use place value to round multi-digit numbers -Use previously learned concepts and skills to construct arguments about place value 	<ul style="list-style-type: none"> Place Value Millions Period Expanded Form >, <, = Rounding Conjecture 	enVision Assessments Teacher Created Assessments	Intervention services offered to students who need extra help. Students allowed corrections on assessments if needed.	<ul style="list-style-type: none"> enVision Mathematics SuccessMaker Math Games/Tools Pick a Project Problem Solving Reading Activity STEM Activity
Topic 2: Fluently Add and Subtract Multi-Digit Whole Numbers	CC.2.1.4.B.2 CC.2.2.4.A.1	10 days	<ul style="list-style-type: none"> -Add and subtract whole numbers mentally using a variety of methods -Round greater whole numbers to estimate sums and differences -Add 3-digit numbers using place value concepts and standard algorithm -Add numbers to one million with and without 	<ul style="list-style-type: none"> Commutative Property of Addition Associative Property of Addition Identity Property of Addition Count Up Count Down Compensation Variable Algorithm 	enVision Assessments Teacher Created Assessments	Intervention services offered to students who need extra help. Students allowed corrections on	<ul style="list-style-type: none"> enVision Mathematics SuccessMaker Place Value Tools Math Games/Tools Pick a Project Problem Solving Reading Activity STEM Activity

			<p>regrouping using the standard algorithm</p> <ul style="list-style-type: none"> -Use place value and the standard algorithm to subtract whole numbers -Use place value and an algorithm to subtract whole numbers -Use number sense and regrouping to subtract across zeros -Use previously learned concepts and skills to reason abstractly and make sense of quantities and their relationships in problem situations 			assessments if needed.	
<p>Topic 3: Use Strategies and Properties to Multiply by 1-Digit Numbers</p>	<p>CC.2.1.4.B.2 CC.2.2.4.A.1</p>	<p>11 days</p>	<ul style="list-style-type: none"> -Multiply multiples of 10, 100, and 1,000 using mental math and place value strategies -Use rounding to estimate products and check if answers are reasonable -Use arrays and partial products to multiply 2-and 3-digit numbers by 1-digit numbers -Use area models and the distributive property to multiply larger numbers -Use place value and partial products to multiply 3- and 4-digit 	<p>Associative Property of Multiplication Partial Products Numerical Expression Distributive Property Compensation Commutative Property of Multiplication</p>	<p>enVision Assessments Teacher Created Assessments</p>	<p>Intervention services offered to students who need extra help. Students allowed corrections on assessments if needed.</p>	<p>enVision Mathematics SuccessMaker Math Games/Tools Pick a Project Problem Solving Reading Activity STEM Activity</p>

			<p>numbers by 1-digit numbers</p> <ul style="list-style-type: none"> -Use place value and properties of operations to multiply mentally -Choose an appropriate strategy to multiply 2-, 3-, and 4-digit numbers by 1-digit numbers -Use previously learned concepts and skills to represent and solve problems 				
<p>Topic 4: Use Strategies and Properties to Multiply by 2-Digit Numbers</p>	<p>CC.2.1.4.B.2 CC.2.2.4.A.1</p>	<p>9 days</p>	<ul style="list-style-type: none"> -Use mental math strategies to multiply 2-digit multiples of 10 by 2-digit multiples of 10 -Use models and properties of operations to multiply 2-digit numbers by multiples of 10 -Use rounding or compatible numbers to estimate products of 2-digit numbers -Use arrays, place value, partial products, and properties of operations to multiply by 2-digit numbers -Use the distributive property and an area model to multiply 2-digit numbers 	<p>NONE</p>	<p>enVision Assessments Teacher Created Assessments</p>	<p>Intervention services offered to students who need extra help. Students allowed corrections on assessments if needed.</p>	<p>enVision Mathematics SuccessMaker Math Games/Tools Pick a Project Problem Solving Reading Activity STEM Activity</p>

			<ul style="list-style-type: none"> -Use place value and partial products to calculate products of 2-digit by 2-digit multiplication problems -Make sense of problems and persevere in solving 				
<p>Topic 5: Use Strategies and Properties to Divide by 1-Digit Numbers</p>	<p>CC.2.1.4.B.2 CC.2.2.4.A.1</p>	<p>13 days</p>	<ul style="list-style-type: none"> -Use mental math and place value strategies to divide multiples of 10 and 100 by 1-digit divisors -Use compatible numbers to estimate quotients -Use place value patterns and division facts to estimate quotients for 4-digit dividends -Solve division problems and interpret remainders -Use partial quotients to divide -Use partial quotients and place value understandings to divide with greater dividends -Use place value and models to divide 2-and 3-digit numbers by 1-digit numbers -Continue to use place value and models to divide 2-and 3-digit numbers by 1-digit numbers 	<p>Remainder Partial Quotients</p>	<p>enVision Assessments Teacher Created Assessments</p>	<p>Intervention services offered to students who need extra help. Students allowed corrections on assessments if needed.</p>	<p>enVision Mathematics SuccessMaker Math Games/Tools Pick a Project Problem Solving Reading Activity STEM Activity</p>

			-Choose a strategy to divide that follows a series of steps to break division into simpler calculations				
Topic 6: Use Operations and Whole Numbers to Solve Problems	CC.2.1.4.B.2 CC.2.2.4.A.1	9 days	-Interpret comparisons as multiplication or addition equations -Use multiplication and division to compare two quantities -Model and solve multi-step problems by finding hidden questions and using bar diagrams and equations -Model and solve multi-step problems and check that answers are reasonable -Solve multi-step problems by writing and solving one or more equations -Make sense of a multi-step problem and keep working until it is solved	NONE	enVision Assessments Teacher Created Assessments	Intervention services offered to students who need extra help. Students allowed corrections on assessments if needed.	enVision Mathematics SuccessMaker Math Games/Tools Pick a Project Problem Solving Reading Activity STEM Activity
Topic 7: Factors and Multiples	CC.2.2.4.A.2	8 days	-Use arrays to find the factors of a given whole number -Use multiplication to find all the factor pairs for a whole number -Use repeated reasoning to generalize how to solve problems that are similar	Factor Pairs Generalize Prime Number Composite Number Multiple	enVision Assessments Teacher Created Assessments	Intervention services offered to students who need extra help. Students allowed corrections	enVision Mathematics SuccessMaker Math Games/Tools Pick a Project Problem Solving Reading Activity STEM Activity

			<ul style="list-style-type: none"> -Use factors to determine whether a whole number greater than 1 is prime or composite -Use multiplication to find multiples of a given whole number 			on assessments if needed.	
<p>Topic 8: Extend Understanding of Fraction Equivalence and Ordering</p>	CC.2.1.4.C.1	9 days	<ul style="list-style-type: none"> -Use area models to recognize and generate equivalent fractions -Use a number line to locate and identify equivalent fractions -Use multiplication to find equivalent fractions -Use division to find equivalent fractions -Use benchmarks, area models, and number lines to compare fractions -Use models or rename fractions to compare -Construct arguments about fractions 	<p>Fraction Numerator Denominator Equivalent Fractions Common Factor Benchmark Fraction</p>	enVision Assessments Teacher Created Assessments	Intervention services offered to students who need extra help. Students allowed corrections on assessments if needed.	<p>enVision Mathematics SuccessMaker Math Games/Tools Pick a Project Problem Solving Reading Activity STEM Activity</p>
<p>Topic 9: Understand Addition and Subtraction of Fractions</p>	CC.2.1.4.C.2	13 days	<ul style="list-style-type: none"> -Use fraction strips and number lines to add fractions -Decompose a fraction or mixed number into a sum of fractions in more than one way -Solve problems involving joining parts of the same 	<p>Decompose Compose Mixed Number</p>	enVision Assessments Teacher Created Assessments	Intervention services offered to students who need extra help. Students allowed corrections on	<p>enVision Mathematics SuccessMaker Fraction Strips Number Lines Math Games/Tools Pick a Project Problem Solving Reading Activity</p>

			<p>whole by adding fractions with like denominators</p> <ul style="list-style-type: none">-Use tools such as fraction strips, area models, and number lines to subtract fractions-Solve problems involving separating parts of the same whole by subtracting fractions-Count forward or backward on number line to add or subtract-Use models and equivalent fractions to add and subtract mixed numbers-Use equivalent fractions and properties of operations to add mixed numbers with like denominators-Use equivalent fractions, properties of operations, and the relationship between addition and subtraction to subtract mixed numbers with like denominators-Use previously learned concepts and skills to represent and solve problems			assessments if needed.	STEM Activity
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<p>Topic 10: Extend Multiplication Concepts of Fractions</p>	<p>CC.2.1.4.C.2 CC.2.2.4.A.1</p>	<p>7 days</p>	<ul style="list-style-type: none"> -Use a model, repeated addition, and multiplication to understand a fraction as a multiple of a unit fraction -Use models to multiply fractions by whole numbers -Use symbols and equations to multiply a fraction by a whole number -Use the four operations to solve problems involving time -Use previously learned concepts and skills to represent and solve problems 	<p>Unit Fraction</p>	<p>enVision Assessments Teacher Created Assessments</p>	<p>Intervention services offered to students who need extra help. Students allowed corrections on assessments if needed.</p>	<p>enVision Mathematics SuccessMaker Math Games/Tools Pick a Project Problem Solving Reading Activity STEM Activity</p>
<p>Topic 11: Represent and Interpret Data on Line Plots</p>	<p>CC.2.4.4.A.4</p>	<p>8 days</p>	<ul style="list-style-type: none"> -Read and interpret data using line plots -Represent data using line plots and interpret data in line plots to solve problems -Solve problems involving line plots and fractions -Critique the reasoning of others using an understanding of line plots 	<p>Line Plot Scale</p>	<p>enVision Assessments Teacher Created Assessments</p>	<p>Intervention services offered to students who need extra help. Students allowed corrections on assessments if needed.</p>	<p>enVision Mathematics SuccessMaker Math Games/Tools Pick a Project Problem Solving Reading Activity STEM Activity</p>

<p>Topic 12: Understand and Compare Decimals</p>	<p>CC.2.1.4.C.3</p>	<p>8 days</p>	<p>-Relate fractions and decimals with denominators of 10 and 100 -Locate and describe fractions and decimals on number lines -Compare decimals by reasoning about their size -Add fractions with denominators of 10 and 100 by using equivalent fractions -Use fractions or decimals to solve word problems involving money -Use the structure of the place value system for decimals to solve problems</p>	<p>Decimal Decimal Point Tenth Hundredth</p>	<p>enVision Assessments Teacher Created Assessments</p>	<p>Intervention services offered to students who need extra help. Students allowed corrections on assessments if needed.</p>	<p>enVision Mathematics SuccessMaker Games/Tools Pick a Project Problem Solving Reading Activity STEM Activity</p>
<p>Topic 13: Measurement: Find Equivalence in Units of Measure</p>	<p>CC.2.4.4.A.1</p>	<p>11 days</p>	<p>-Recognize the relative size of customary units of length and convert from larger to smaller units -Recognize the relative size of customary units of capacity and convert from larger to smaller units -Recognize the relative size of customary units of weight and convert from larger to smaller units -Recognize the relative size of metric units of length</p>	<p>Capacity Quart Gallon Cup Pint Fluid Ounce Weight Ounce Pound Ton Millimeter Centimeter Meter Kilometer Mass Milliliter Liter Gram Milligram</p>	<p>enVision Assessments Teacher Created Assessments</p>	<p>Intervention services offered to students who need extra help. Students allowed corrections on assessments if needed.</p>	<p>enVision Mathematics SuccessMaker Games/Tools Pick a Project Problem Solving Reading Activity STEM Activity</p>

			<p>and convert from larger to smaller units</p> <ul style="list-style-type: none"> -Recognize the relative size of metric units of capacity and convert from larger to smaller units -Find the unknown length and width of a rectangle using the known area or perimeter -Be precise when solving measurement problems 	<p>Kilogram Perimeter Area Formula</p>			
<p>Topic 14: Algebra: Generate and Analyze Patterns</p>	<p>CC.2.2.4.A.4</p>	<p>7 days</p>	<ul style="list-style-type: none"> -Create or extend a number sequence based on a rule -Identify features of the pattern in the sequence that are not described by the rule -Use a rule to extend a number pattern and solve a problem -Identify features of the pattern -Generate a shape pattern that follows a given rule and predict a shape in the pattern -Solve problems by using patterns 	<p>Rule Repeating Pattern</p>	<p>enVision Assessments Teacher Created Assessments</p>	<p>Intervention services offered to students who need extra help. Students allowed corrections on assessments if needed.</p>	<p>enVision Mathematics SuccessMaker Math Games/Tools Pick a Project Problem Solving Reading Activity STEM Activity</p>

<p>Topic 15: Geometric Measurement: Understand Concepts of Angles and Angle Measurement</p>	<p>CC.2.3.4.A.1 CC.2.4.4.A.6</p>	<p>9 days</p>	<p>-Recognize and draw line, rays, and angles with different measures -Find the measure of an angle that turns through a fraction of a circle -Use known angle measures to measure unknown angles -Use a protractor to measure and draw angles -Use addition and subtraction to solve problems with unknown angle measures -Use appropriate tools, such as a protractor and ruler, to solve problems</p>	<p>Point Line Line Segment Ray Right Angle Acute Angle Obtuse Angle Straight Angle Degree Unit Angle Angle Measure Protractor Vertex</p>	<p>enVision Assessments Teacher Created Assessments</p>	<p>Intervention services offered to students who need extra help. Students allowed corrections on assessments if needed.</p>	<p>enVision Mathematics SuccessMaker Math Games/Tools Pick a Project Problem Solving Reading Activity STEM Activity</p>
<p>Topic 16: Lines, Angles, and Shapes</p>	<p>CC.2.3.4.A.1 CC.2.3.4.A.2 CC.2.3.4.A.3</p>	<p>8 days</p>	<p>-Draw and identify perpendicular, parallel, and intersecting lines -Classify triangles by line segments and angles -Classify quadrilaterals by lines and angles -Recognize and draw lines of symmetry -Identify line geometric figures -Draw figures that have line symmetry Use understanding of two-dimensional shapes to</p>	<p>Perpendicular Parallel Perpendicular Lines Intersecting Lines Right Triangle Obtuse Triangle Acute Triangle Equilateral Triangle Isosceles Triangle</p>	<p>enVision Assessments Teacher Created Assessments</p>	<p>Intervention services offered to students who need extra help. Students allowed corrections on assessments if needed.</p>	<p>enVision Mathematics SuccessMaker Crayons/Markers Math Games/Tools Pick a Project Problem Solving Reading Activity STEM Activity</p>

			critique the reasoning of others	Scalene Triangle Parallelogram Rectangle Square Rhombus Trapezoid Quadrilateral Line Symmetric Line of Symmetry			
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