Math: Grade 4

UNIT/Weeks	Timeline/Topics	Essential Questions
1.6	**Place Value** • Place Value • Read and Write Multi-Digit Numbers • Compare Numbers • Order Numbers • Use Place Value to Round • Problem Solving Strategy: Use the Four Step Plan	• How does place value help represent the value of numbers?
2.2	**Add and Subtract Whole Numbers** • Addition Properties and Subtraction Rules • Addition and Subtraction Patterns • Add and Subtract Mentally • Estimate Sums and Differences • Add Whole Numbers • Subtract Whole Numbers • Subtract Across Zeros • Problem- Solving Investigation: Draw a Diagram • Solve Multi-Step Word Problems	• What strategies can I use to add or subtract?
2.6	**Understand Multiplication and Division** • Relate Multiplication and Division • Relate Division and Subtraction • Multiplication as Comparison • Compare to Solve Problems • Multiplication Properties and Division Rules • The Associative Property of Multiplication • Factors and Multiples • Problem Solving Investigation: Reasonable Answers	• How are multiplication and division related?
2.6	**Multiply with One-Digit Numbers** • Multiples of 10, 100, and 1,000 • Round to Estimate Products • Hands On: Use Place Value to Multiply • Hands On: Use Models to Multiply • Multiply by a Two-Digit Number • Hands-On: Model Regrouping • The Distributive Property • Multiply with Regrouping • Multiply by a Multi- Digit Number • Problem Solving Investigation: Estimate or Exact Answer • Multiply Across Zeros	• How can I communicate multiplication?

1.8	**Multiply with Two-Digit Numbers** • Multiply by Tens • Estimate Products • Hands-On: Use the Distributive Property to Multiply • Multiply by a Two- Digit Number • Solve Multi-Step Word Problems • Problem Solving Investigation: Make a Table	• How can I multiply by a two-digit number?
2.4	**Divide by a One-Digit Number** • Divide Multiples of 10, 100, and 1,000 • Estimate Quotients • Hands-On: Use Place Value to Divide • Problem Solving Investigation: Make a Model • Divide with Remainders • Interpret Remainders • Place the First Digit • Divide Greater Numbers • Quotients with Zeros • Solve Multi-Step Word Problems	• How does division affect numbers?
3	**Fractions** • Factors and Multiples • Prime and Composite Numbers • Hands-On: Model Equivalent Fractions • Equivalent Fractions • Simplest Form • Compare and Order Fractions • Use Benchmark Fractions to Compare and Order • Problem Solving Investigation: Use Logical reasoning • Mixed Numbers • Mixed Numbers and Improper Fractions	• How can different fractions name the same amount?
2.6	**Operations with Fractions** • Hands-On: Use Models to Add Like Fractions • Add Like Fractions • Hands-On: Use Models to Subtract Like Fractions • Subtract Like Fractions • Problem Solving Investigation: Work Backward • Add Mixed Numbers • Subtract Mixed Numbers • Hands-On: Model Fractions and Multiplication • Multiply Fractions by Whole Numbers	• How can I use operations to model real-world fractions?
2.2	**Fractions and Decimals** • Hands-On: Place Value Through Tenths and Hundredths • Tenths • Hundredths • Hands-On: Model Decimals and Fractions • Decimals and Fractions	• How are fractions and decimals related?

	• Use Place Value and Models to Add • Compare and Order Decimals • Problem Solving Investigation: Extra or Missing Information	
2.4	**Patterns and Sequences** • Nonnumeric Patterns • Numeric Patterns • Sequences • Problem Solving Investigation: Look for a Pattern • Addition and Subtraction Rules • Multiplication and Division Rules • Order of Operations • Hands-On: Equations with Two Operations • Equations with Multiple Operations	• How are patterns used in mathematics?
1.4	**Perimeter and Area** • Measure Perimeter • Problem Solving Investigation: Solve a Simpler Problem • Hands-On: Model Area • Measure Area • Relate Area and Perimeter	• Why is it important to measure perimeter and area?
2.4	**Customary Measurement** • Customary Units of Length • Convert Customary Units of Length • Customary Units of Capacity • Customary Units of Weight • Convert Customary Units of Weight • Convert Units of Time • Display Measurement Data in a Line Plot • Solve Measurement Problems • Problem Solving Investigation: Guess, Check, and Revise	• Why do we convert measurements?
1.6	**Metric Measurement** • Metric Units of Length • Metric Units of Capacity • Metric Units of Mass • Problem- Solving Investigation: Make an Organized List • Convert Metric Units • Solve Measurement Problems	• How can conversion of measurement help solve real-world problems?
2.4	**Geometry** • Draw Points, Lines, and Rays and Perpendicular Lines • Classify, Measure and Draw Angles	• How are different ideas about geometry connected?

	• Triangles and Quadrilaterals • Symmetry • Problem Solving Investigation: Make a Model	
.6	**Revisit for Mastery** • Fractions • Decimals	• How are fractions and decimals alike and different?