Advanced Math: Grade 4			
UNIT/Weeks	Timeline/Topics	Essential Questions	
1	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	 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?	
3	 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?	
4	 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?	

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5	 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?
6	 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?
7	 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?
8	 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?
9	 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 	
10	 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?
11	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?
12	 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?
13	 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?
14	Draw Points, Lines, and Rays and Perpendicular Lines Classify, Measure and Draw Angels	How are different ideas about geometry connected?

	Triangles and QuadrilateralsSymmetryProblem Solving Investigation: Make a Model	
15	Introduction to Grade 5 Prime Factorization and Patterns Powers and Exponents Multiplication Patterns Problem Solving: Making Tables Estimate Products The Distributive Property Multiply One and Two Digit Numbers	 What strategies can be used to multiply whole numbers? How Can Prime Numbers be Identified?