

Advanced Math: Grade 5

UNIT/Weeks	Timeline/Topics	Essential Questions
1	<p><u>Place Value</u></p> <ul style="list-style-type: none"> • Place Value Through Millions • Compare and Order Whole Numbers and Decimals Through Millions • Model Fractions and Decimals • Represent and Compare Decimals • Problem Solving: Four Step Method 	<ul style="list-style-type: none"> • How does the position of a digit in a number relate to its value?
2	<p><u>Multiply Whole Numbers</u></p> <ul style="list-style-type: none"> • Prime Factorization and Patterns • Powers and Exponents • Multiplication Patterns • Problem Solving: Making Tables • Estimate Products • The Distributive Property • Multiply One and Two Digit Numbers 	<ul style="list-style-type: none"> • What strategies can be used to multiply whole numbers?
3	<p><u>Divide by a One-Digit Divisor</u></p> <ul style="list-style-type: none"> • Relate Division to Multiplication • Division Models • Estimate and Find Patterns in Division • Two Through Four Digit Dividends • Place the First Digit • Quotients with Zeros • Model and Interpret the Remainder 	<ul style="list-style-type: none"> • What strategies can be used to divide whole numbers?
4	<p><u>Divide by a Two-Digit Divisor</u></p> <ul style="list-style-type: none"> • Divide By a Two- Digit Divisor • Estimate and Adjust Quotients • Divide Greater Numbers • Solving Simpler Problems 	<ul style="list-style-type: none"> • What strategies can I use to divide by a two-digit number?
5	<p><u>Add and Subtract Decimals</u></p> <ul style="list-style-type: none"> • Estimate Sums and Differences • Find Estimations or Exact Answers for Word Problems • Round Decimals to Various Place Values 	<ul style="list-style-type: none"> • How can I use place value and properties to

	<ul style="list-style-type: none"> • Add Decimals Using Base Ten Blocks and Models • Addition Properties • Subtract Using Base Ten Blocks and Models • Subtract Decimals 	add and subtract decimals?
6	<p><u>Multiply and Divide Decimals</u></p> <ul style="list-style-type: none"> • Estimate Products of Whole Numbers and Decimals • Multiply Decimals Using Whole Numbers, Decimals, and Models • Multiply Decimals by Powers of Ten • Look for Patterns in Word Problems • Multiplication Properties • Estimate Quotients • Divide Decimals Using Whole Numbers, Decimals, and Models • Divide Decimals By Powers of Ten 	<ul style="list-style-type: none"> • How is multiplying and dividing decimals similar to multiplying and dividing whole numbers?
7	<p><u>Expressions and Patterns</u></p> <ul style="list-style-type: none"> • Numerical Expressions • Order of Operations • Problem Solving: Work Backwards • Generate and Graph Patterns • Ordered Pairs 	<ul style="list-style-type: none"> • How are patterns used to solve problems?
8	<p><u>Fractions and Decimals</u></p> <ul style="list-style-type: none"> • Fractions and Division • Greatest Common Factor • Simplest Form • Problem-Solving Investigation: Guess, Check, and Revise • Least Common Multiple • Compare Fractions • Hands-On: Use Models to Write Fractions as Decimals • Write Fractions as Decimals 	<ul style="list-style-type: none"> • How are factors and multiples helpful in solving problems?
9	<p><u>Add and Subtract Fraction</u></p> <ul style="list-style-type: none"> • Estimate Sums and Differences 	

	<ul style="list-style-type: none"> • Find Estimations or Exact Answers for Word Problems • Round Decimals to Various Place Values • Add Decimals Using Base Ten Blocks and Models • Addition Properties • Subtract Using Base Ten Blocks and Models • Subtract Decimals 	<ul style="list-style-type: none"> • How can equivalent fractions help me add and subtract fractions?
10	<p><u>Multiply and Divide Fractions</u></p> <ul style="list-style-type: none"> • Estimate Products of Fractions • Hands-On: Model Fraction Multiplication • Multiply Whole Numbers and Fractions • Hands-On: Use Models to Multiply Fractions • Multiply Fractions by Fractions • Multiply Mixed Numbers • Hands-On: Multiplication as Scaling • Hands-On: Division with Unit Fractions • Divide Whole Numbers by Unit Fractions • Divide Unit Fractions by Whole Numbers • Problem Solving Investigation: Draw a Diagram 	<ul style="list-style-type: none"> • What strategies can be used to multiply and divide fractions?
11	<p><u>Measurement</u></p> <ul style="list-style-type: none"> • Convert Customary Units of Length • Problem- Solving investigation: Use Logical Reasoning • Hands-On: Estimate and Measure Weight • Convert Customary Units of Weight • Hands-On: Estimate and Measure Capacity • Convert Customary Units of Capacity • Display Measurement Data on a Line Plot • Hands-On: Metric Rulers • Convert Metric Units of Length • Hands-On: Estimate and Measure Metric Mass • Convert Metric Units of Mass • Convert Metric Units of Capacity 	<ul style="list-style-type: none"> • How can I use measurement conversions to solve real-world problems?

<p style="text-align: center;">12</p>	<p><u>Geometry</u></p> <ul style="list-style-type: none"> • Polygons • Hands-On: Sides and Angles of Triangles • Classify Triangles • Hands-On: Sides and Angles of Quadrilaterals • Classify Quadrilaterals • Hands-On: Build Three- Dimensional Figures • Three- Dimensional Figures • Hands-On: Use Models to Find Volume • Volume of Prisms • Hands-On: Build Composite Figures • Volume of Composite Figures • Problem-Solving Investigation: Make a Model 	<ul style="list-style-type: none"> • How does geometry help me solve problems in everyday life?
<p style="text-align: center;">13</p>	<p><u>Introduction to 6th Grade</u></p> <ul style="list-style-type: none"> • Identify Integers and Their Opposites • Comparing and Ordering Integers • Absolute Value • Greatest Common Factor • Least Common Multiple • Classify Rational Numbers • Identify Opposites and Absolute Value of Rational Numbers • Comparing and Ordering Rational Numbers 	<ul style="list-style-type: none"> • How do you identify an integer and its opposite? • How do you compare and order integers? • How do you find and use absolute value? • How do you find and use the greatest common factor of two whole numbers? • How do you find and use the least common multiple of two whole numbers? • How can you classify rational numbers? • How can you identify opposites and absolute values of rational numbers? • How do you compare and order rational numbers?