

This is a working document and subject to change.

	September	October	November	December	January	February	March	April	May	June
Component	Stage 1, Book 1: Decimals & Fractions Stage 1, Book 2: Introductory Algebra			Stage 1, Book 2: Introductory Algebra			Stage 1, Book 2: Introductory Algebra Stage 1, Book 3: Ratios, Rates, & Statistics	Stage 1, Book 3: Ratios, Rates, & Statistics		
Topic	Block 1: Understanding Decimals Block 2: Multiplying and Dividing Decimals	Block 3: Understanding Fractions Block 4: Adding and Subtracting Fractions Block 5: Multiplying and Dividing Fractions	Block 5: Multiplying and Dividing Fractions Block 6: Area and Volume Block 1: Order of Operations	Block 1: Order of Operations Block 2: Algebraic Expressions	Block 2: Algebraic Expressions Block 3: Solving Equations	Block 3: Solving Equations Block 4: Integers and Functions	Block 4: Integers and Functions Block 1: Ratios and Conversions Block 2: Rates	Block 2: Rates Block 3: Percents and Probability	Block 3: Percent sand Probability Block 4: Statistics	Block 4: Statistics
Topic Description	Decimals: Place value, rounding, ordering and comparing, estimating, adding, subtracting. Measuring in centimeters. Multiplying by 2-digit numbers. Multiplying decimals. Dividing by 1- and 2-digit numbers. Dividing decimals by whole numbers and decimals. Greatest common factor. Equivalent and simplifying fractions. Least common multiple. Ordering and comparing fractions. Mixed numbers and improper fractions. Measuring in inches. Estimating sums and differences. Adding and subtracting fractions, mixed numbers, and by renaming. Perimeter with fractions. Multiplying and dividing fractions (with models), estimating products and quotients. Multiplying and dividing fractions and whole numbers and mixed numbers. Area with fractions. Area and perimeter with decimals. Area of composite figures. Nets and surface areas. Volume with fractional dimensions.			The four operations. Powers and exponents. Order of operations with powers and with grouping symbols. Number properties. Variables and expressions. Evaluating expressions. Evaluating geometric formulas. Simplifying algebraic expressions. The distributive property. Equations and solutions. Solving equations using mental math. Solving addition and subtraction equations. Solving multiplication and division equations. Mixed one-step equations. Formulas and equation solving. Solving two-step equations. Understanding integers. Comparing integers. The coordinate plane and quadrilaterals. Input-output tables. Writing function rules. Graphing linear functions. Patterns and functions. Inequalities.			Ratios. Geometric sequences. Customary conversions. Metric conversions. Perimeter and area. Fractions and decimals. Repeating decimals and rounding. Rates and unit rates. Rate problem solving. Comparing rates. Motion rates. Percents: Introduction, decimals and fractions, of a number, application. Probability: Introduction, experimental, theoretical, geometric. Introduction to statistics. Measure of center. Dot plots. Histograms. Box-and-whicker plots. Analyzing statistics. Mean absolute deviation.			
Standards Alignment	The Number System: Apply and extend previous understanding of multiplication and division to divide fractions by fractions. Compute fluently with multi-digit numbers and find common factors and multiples. Geometry: Solve real-world and mathematical problems involving area, surface area, and volume.			The Number System: Apply and extend previous understandings of numbers to the system of rational numbers. Expressions and Equations: Apply and extend previous understandings of arithmetic to algebraic expressions. Reason about and solve one-variable equations and inequalities. Represent and analyze quantitative relationships between dependent and independent variables.			Ratios and Proportional Relationships: Understand ratio concepts and use ratio reasoning to solve problems. Statistics and Probability: Develop understanding of statistical variability. Summarize and describe distributions.			
Core Knowledge Correlation	N/A									
Essential Questions	How do you add or subtract decimals?	How do you multiply and divide decimals? How do you find the least common multiple? (LCM)	How do you add and subtract fractions? How do you multiply and divide fractions?	How do you find the area of composite figures? How do you find the volume with fractional dimensions?	How do you simplify expressions using the order of operations? How do you simplify algebraic expressions?	How do you solve equations using different methods? How do you graph linear functions?	How do you solve equations using different methods? How do you graph linear functions?	How do you convert customary measurements?	How do you find and use the mean absolute deviation to describe the spread of data?	How do you analyze how the characteristics of a data set affects the measure of center?
Anticipatory Set	Block 1: Make a display of newspaper clippings showing examples of decimal use. Block 2: Design an airline mile plan.	Block 3: Create concave and convex figures using seven different line segments. Block 4: Find different distances using triathlon races.	Block 5: Fraction Action, What Fits, 4-H Club, Scrapbooking. Block 6: Triangle Area, Netting a Solid, Measuring Volume.	Block 1: Examine perfect squares up to 400. Make a prediction about the possible last digits of perfect squares. Block 2: Translate those Words, Using Formulas, Earning Interest, Shopping Spree, Equivalent Expressions	Block 3: Record-Setting, Introduction to Equation Mats, Multiplication Equations, Inverse Operations, Equation Mats for Two-Step Equations	Block 4: Who's the Greatest?, Buried Treasure, Function Rules, Function Fun	Block 1: Comparing Students, Number Patterns, The Patio	Block 2: Back and Forth, Calculators and Fractions, Match the Rates, Shopping Sales	Block 3: Percents, Kieran's Room, At the Restaurant, Rolling a 3, Sum of Two Number Cubes, What are my Chances of Winning?	Block 4: A Question of Statistics, Counting Pets, How Tall?, What's the "Meaning?", Mercury's Rising
Cross Curriculum Integration/Field Trips	Explore Activities: B1: Base-Ten Blocks, Using a Metric Ruler, Batting Averages, Fit Occupations B2: Smart Shopper, Beaded Necklaces, Magazine Subscriptions	Explore Activities: B3: University Sales, Creating Equivalent Fractions, Fraction Homework, Which is Larger?, Chocolate Chip Cookies, Using a Customary Ruler B4: Pizza Party, Mixing Paint	Explore Activities: B5: Find the number of minutes in a fraction of an hour. B6: Make 2-dimensional net patterns of 3-dimensional shapes.	Explore Activities: B1: Folding Paper, Fact Puzzle, Discovering Properties B2: Determine the population density of different areas of the world.	Explore Activities: B3: Find the values of missing dimensions in complex geometry figures.	Explore Activities: B4: Produce graphs that illustrate non-linear situations such as doubling and tripling.	Explore Activities: B1: Choose a pay raise from two different options at your new job.	Explore Activities: B2: Calculate batting averages. Research batting averages in Major League Baseball.	Explore Activities: B3: Find the amount of tip you should leave at a local restaurant based on the items you order.	Explore Activities: B4: Learn how changing values in a data set affects the mean and median.