

Course Outline

Combined 6th/7th Grade Course (for use in 6th grade)

Unit 1: CC1 Chapter 1 and CC2 Chapter 1

CC1 Chapter 1 Introduction and Representation

Section 1.1

- 1.1.2 Perimeter and Area Relationships
- 1.1.3 Describing and Extending Patterns
- 1.1.4 Representing Data

CC2 Chapter 1 Introduction and Probability

Section 1.1

- 1.1.2 Analyzing a Game
- 1.1.4 Investigating a Proportional Relationship

CC1 Chapter 1 Introduction and Representation

Section 1.2

- 1.2.1 Multiple Representations
- 1.2.2 Representing Comparisons
- 1.2.3 Characteristics of Numbers
- 1.2.4 Products, Factors, and Factor Pairs

Unit Closure

Unit 2: CC1 Chapter 2

CC1 Chapter 2 Arithmetic Strategies and Area

Section 2.1

- 2.1.1 Dot Plots and Bar Graphs
- 2.1.2 Histograms and Stem-and-Leaf Plots

Section 2.2

- 2.2.1 Exploring Area
- 2.2.2 Square Units and Area of Rectangles
- 2.2.3 Area and Perimeter

Section 2.3

- 2.3.1 Using Rectangles to Multiply
- 2.3.2 Using Generic Rectangles
- 2.3.3 Generic Rectangles and Greatest Common Factor
- 2.3.4 Distributive Property

Unit Closure

Unit 3: CCC1 Chapter 3

CC1 Chapter 3 Portions and Integers

Section 3.1

- 3.1.1 Using the Multiplicative Identity
- 3.1.2 Portions as Percents
- 3.1.3 Connecting Percents with Decimals and Fractions
- 3.1.4 Multiple Representations of a Portion
- 3.1.5 Completing the Web
- 3.1.6 Investigating Ratios

Section 3.2

- 3.2.1 Addition, Subtraction, and Opposites
- 3.2.2 Locating Negative Numbers
- 3.2.3 Absolute Value
- 3.2.4 Length on a Coordinate Graph

Unit Closure

Unit 4: CC1 Chapter 4

CC1 Chapter 4 Variables and Ratios

Section 4.1

- 4.1.1 Introduction to Variables
- 4.1.2 Writing Equivalent Expressions
- 4.1.3 Using Variables to Generalize

Section 4.2

- 4.2.1 Enlarging Two-Dimensional Shapes
- 4.2.2 Enlarging and Reducing Figures
- 4.2.3 Enlargement and Reduction Ratios
- 4.2.4 Ratios in Other Situations

Unit Closure

Unit 5: CC1 Chapter 5

CC1 Chapter 5 Multiplying Fractions and Area

Section 5.1

- 5.1.1 Representing Fraction Multiplication
- 5.1.2 Describing Parts of Parts
- 5.1.3 Calculating Parts of Parts
- 5.1.4 Multiplying Mixed Numbers

Section 5.2

- 5.2.1 Making Sense of Decimal Multiplication
- 5.2.2 Fraction Multiplication Number Sense

Section 5.3

- 5.3.1 Rearranging Areas
- 5.3.2 Area of a Parallelogram
- 5.3.3 Area of a Triangle
- 5.3.4 Area of a Trapezoid

Unit Closure

Section 5.4

- Mid-Course Reflection Activities

Unit 6: CC1 Chapter 6

CC1 Chapter 6 Dividing and Building Expressions

Section 6.1

- 6.1.1 Dividing
- 6.1.2 Fractions as Division Problems
- 6.1.3 Problem Solving with Division
- 6.1.4 Solving Problems Involving Fraction Division

Section 6.2

- 6.2.1 Order of Operations
- 6.2.2 Area of a Rectangular Shape
- 6.2.3 Naming Perimeters of Algebra Tiles
- 6.2.4 Combining Like Terms
- 6.2.5 Evaluating Algebraic Expressions

Unit Closure

Unit 7: CC1 Chapter 7

CC1 Chapter 7 Rates and Operations

Section 7.1

- 7.1.1 Comparing Rates
- 7.1.2 Comparing Rates with Tables and Graphs
- 7.1.3 Unit Rates

Section 7.2

- 7.2.1 Analyzing Strategies for Dividing Fractions
- 7.2.2 Another Strategy for Division
- 7.2.3 Division with Fractions and Decimals
- 7.2.4 Fraction Division as Ratios

Section 7.3

- 7.3.1 Inverse Operations
- 7.3.2 Distributive Property
- 7.3.3 Distributive Property and Expressions Vocabulary
- 7.3.4 Writing Algebraic Equations and Inequalities

Unit Closure

Unit 8: CC1 Chapter 8

CC1 Chapter 8 Statistics and Multiplication Equations

Section 8.1

- 8.1.1 Measures of Central Tendency
- 8.1.2 Choosing Mean or Median
- 8.1.3 Shape and Spread
- 8.1.4 Box Plots and Interquartile Range
- 8.1.5 Comparing and Choosing Representations

Section 8.2

- 8.2.1 Statistical Questions

Section 8.3

- 8.3.1 Writing Multiplication Equations
- 8.3.2 Distance, Rate, and Time
- 8.3.3 Unit Conversion

Unit Closure

Unit 9: CC1 Chapter 9

CC1 Chapter 9 Volume and Percents

Section 9.1

- 9.1.1 Volume of a Rectangular Prism
- 9.1.2 Nets and Surface Area

Section 9.2

- 9.2.1 Multiplicative Growth and Percents
- 9.2.2 Composition and Decomposition of Percents
- 9.2.3 Percent Discounts
- 9.2.4 Simple Interest and Tips

Unit Closure

Section 9.3

- 9.3.1 A Culminating Portions Challenge
- 9.3.2 Representing and Predicting Patterns
- 9.3.3 Analyzing Data to Identify a Trend

Unit 10: CC2 Chapters 1 and 2

CC2 Chapter 1 Introduction and Probability

Section 1.2

- 1.2.1 Introduction to Probability
- 1.2.2 Investigating Probability
- 1.2.3 Modifying the Sample Space
- 1.2.7 Compound Probability
- 1.2.8 Subtracting Probabilities

CC2 Chapter 2 Fractions and Integer Addition

Section 2.1

- 2.1.1 Fraction-to-Decimal Conversions
- 2.1.2 Rewriting Decimals as Fractions

Section 2.2

- 2.2.1 Composing Integers
- 2.2.2 Adding Integers and Rational Numbers
- 2.2.3 More Addition of Integers and Rational Numbers
- 2.2.4 Multiplication as Repeated Addition

Unit Closure

Unit 11: CC2 Chapters 3 and 4

CC2 Chapter 3 Arithmetic Properties

Section 3.2

- 3.2.1 Subtraction of Integers
- 3.2.2 Connecting Addition and Subtraction
- 3.2.3 Multiplication as Repeated Subtraction
- 3.2.4 Multiplication of Decimals
- 3.2.5 Addition, Subtraction, Multiplication, and Division of Integers

Section 3.3

- 3.3.1 Division with Rational Numbers
- 3.3.2 Division with Decimals
- 3.3.3 Arithmetic Properties

CC2 Chapter 4 Proportions and Expressions

Section 4.1

- 4.1.1 Similar Figures
- 4.1.2 Scale Drawings

Section 4.2

- 4.2.1 Recognizing Proportional Relationships
- 4.2.2 Proportional Relationships with Tables and Graphs
- 4.2.3 Unit Rate and Proportional Equations
- 4.2.4 Connecting Representations of Proportional Relationships

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Unit 12: CC2 Chapter 5

CC2 Chapter 5 Probability and Solving Word Problems

Section 5.1

- 5.1.1 Part-Whole Relationships
- 5.1.2 Finding and Using Percentages

Section 5.2

- 5.2.1 Probability Games
- 5.2.2 Computer Simulations of Probability
- 5.2.3 Compound Independent Events
- 5.2.4 Probability Tables
- 5.2.5 Probability Trees
- 5.2.6 Compound Events

Unit Closure