Unit 1: CC3 Chapters 1 and 2 and CC2 Chapter 6
CC3 Chapter 1 Problem Solving
Section 1.1
1.1.2 Finding and Generalizing Patterns Using the $x y$-Coordinate Plane
1.1.4 Collecting, Organizing, and Analyzing Data
CC3 Chapter 2 Simplifying with Variables
Section 2.1
2.1.1 Exploring Variables and Expressions
2.1.2 Simplifying Expressions by Combining Like Terms
2.1.3 Writing Algebraic Expressions
2.1.4 Using Zero to Simplify Algebraic Expressions
2.1.5 Using Algebra Tiles to Simplify Algebraic Expressions
2.1.6 Using Algebra Tiles to Compare Expressions
2.1.7 Simplifying and Recording Work
CC2 Chapter 6 Solving Inequalities and Equations
Section 6.16.1.3 One Variable Inequalities6.1.4 Solving One Variable Inequalities
CC3 Chapter 2 Simplifying with Variables
Section 2.1
2.1.8 Using Algebra Tiles to Solve for $x$
2.1.9 More Solving Equations
Unit Closure
Unit 2: CC3 Chapters 3 and 4
CC3 Chapter 3 Graphs and Equations
Section 3.2
3.2.1 Solving Equations and Checking Solutions
3.2.2 Determining the Number of Solutions
3.2.3 Solving Equations to Solve Problems
3.2.4 More Solving Equations to Solve Problems
3.2.5 Distributive Property Equations
CC3 Chapter 4 Multiple Representations
Section 4.1
4.1.2 Seeing Growth in Different Representations
4.1.3 Connecting Linear Rules and Graphs
4.1.4 $y=m x+b$
4.1.5 Checking the Connections
4.1.6 Graphing a Line Without an $x \rightarrow y$ Table
4.1.7 Completing the Web
Unit Closure
Unit 3: CC3 Chapter 5
CC3 Chapter 5 Systems of Equations
Section 5.1
5.1.1 Working with Multi-Variable Equations
5.1.2 Solving Equations with Fractions
Section 5.2
5.2.1 Introduction to Systems of Equations
5.2.2 Writing Rules from Word Problems
5.2.3 Solving Systems Algebraically
5.2.4 Strategies for Solving Systems
Unit Closure
5.3 Mid-Course Reflection Activities

## Unit 4: CC2 Chapter 7

## CC2 Chapter 7 Proportions and Percents

## Section 7.1

7.1.1 Distance, Rate, and Time
7.1.2 Scaling Quantities
7.1.3 Solving Problems Involving Percents
7.1.4 Equations with Fraction and Decimal Coefficients
7.1.5 Creating Integer Coefficients
7.1.6 Creating Integer Coefficients Efficiently
7.1.7 Percent Increase and Decrease
7.1.8 Simple Interest

Section 7.2
7.2.1 Finding Missing Information in Proportional Relationships
7.2.2 Solving Proportions

Unit Closure

## Unit 5: CC2 Chapter 8

## CC2 Chapter 8 Statistics and Angle Relationships

## Section 8.1

8.1.1 Measurement Precision
8.1.2 Comparing Distributions

## Section 8.2

8.2.1 Representative Samples
8.2.2 Inference from Random Samples

## Section 8.3

8.3.1 Introduction to Angles
8.3.2 Classifying Angles
8.3.3 Constructing Shapes
8.3.4 Building Triangles

## Unit Closure

## Unit 6: CC2 Chapter 9

## CC2 Chapter 9 Circles and Volume

## Section 9.1

9.1.1 Circumference, Diameter, and Pi
9.1.2 Area of Circles
9.1.3 Area of Composite Shapes

Section 9.2
9.2.1 Surface Area and Volume
9.2.2 Cross Sections
9.2.3 Volume of a Prism
9.2.4 Volume of Non-Rectangular Prisms

## Unit Closure

## Section 9.3

9.3.1 Volume and Scaling
9.3.2 Using Multiple Math Ideas to Create an Interior Design
9.3.3 Applying Ratios

## Unit 7: CC3 Chapter 6

## CC3 Chapter 6 Transformations and Similarity

## Section 6.1

6.1.1 Rigid Transformations
6.1.2 Rigid Transformations on a Coordinate Graph
6.1.3 Describing Transformations

## Section 6.2

6.2.1 Multiplication and Dilation
6.2.2 Dilations and Similar Figures
6.2.3 Identifying Similar Shapes
6.2.4 Similar Figures and Transformations
6.2.5 Working With Corresponding Sides
6.2.6 Solving Problems Involving Similar Shapes

## Unit Closure

## Unit 8: CC3 Chapter 7

## CC3 Chapter 7 Slope and Association

## Section 7.1

7.1.1 Circle Graphs
7.1.2 Organizing Data in a Scatterplot
7.1.3 Identifying and Describing Association

## Section 7.2

7.2.1 $y=m x+b$ Revisited
7.2.2 Slope
7.2.3 Slope in Different Representations
7.2.4 More About Slope
7.2.5 Proportional Equations

Section 7.3
7.3.1 Using Equations to Make Predictions
7.3.2 Describing Association Fully
7.3.3 Association Between Categorical Variables

## Unit Closure

## Unit 9: CC3 Chapter 8

## CC3 Chapter 8 Exponents and Functions

## Section 8.1

8.1.1 Patterns of Growth in Tables and Graphs
8.1.2 Compound Interest
8.1.3 Linear and Exponential Growth

## Section 8.2

8.2.1 Exponents and Scientific Notation
8.2.2 Exponent Rules
8.2.3 Negative Exponents
8.2.4 Operations with Scientific Notation

## Section 8.3

8.3.1 Functions in Graphs and Tables

## Unit Closure

## Unit 10: CC3 Chapter 9

## CC3 Chapter 9 Angles and the Pythagorean Theorem

## Section 9.1

9.1.1 Parallel Line Angle Pair Relationships
9.1.2 Finding Unknown Angles in Triangles
9.1.3 Exterior Angles in Triangles
9.1.4 AA Triangle Similarity

## Section 9.2

9.2.1 Side Lengths and Triangles
9.2.2 Pythagorean Theorem
9.2.3 Understanding Square Root
9.2.4 Real Numbers
9.2.5 Applications of the Pythagorean Theorem
9.2.6 Pythagorean Theorem in Three Dimensions
9.2.7 Pythagorean Theorem Proofs

## Unit Closure

## Unit 11: CC3 Chapter 10

## CC3 Chapter 10 Surface Area and Volume

## Section 10.1

10.1.1 Cube Roots
10.1.2 Surface Area and Volume of a Cylinder
10.1.3 Volumes of Cones and Pyramids
10.1.4 Volume of a Sphere
10.1.5 Applications of Volume

Unit Closure

## Course Closure

10.2.1 Indirect Measurement
10.2.2 Finding Unknowns
10.2.3 Analyzing Data to Identify a Trend

