Cocalico School District
Year-at-a-Glance – Curriculum Overview

Department: Cocalico Connections   Course: Math 6   Grade Level: 6

Outline for the course:

Numeric Operations
      Numbers and Properties
      Prime Numbers and Prime Factorization Guided Notes
          Warm-Up
          Get ready for the lesson.
          Instruction
          How can you use factors to write a number as a product?
          Summary
          Review and connect what you learned.
      Factors and Multiples Guided Notes
          Warm-Up
          Get ready for the lesson.
          Instruction
          How can you use the greatest common factor and the least common multiple to solve problems?
          Summary
          Review and connect what you learned.
          Assignment
          Practice solving problems using the GCF.
      Multiplying Whole Numbers Guided Notes
          Warm-Up
          Get ready for the lesson.
          Instruction
          How can you multiply multi-digit whole numbers?
      Dividing Whole Numbers Guided Notes
          Warm-Up
          Get ready for the lesson.
          Instruction
          How can you use a set of steps to divide whole numbers?
      Decimals
      Adding and Subtracting Decimals Guided Notes
          Warm-Up
          Get ready for the lesson.
          Instruction
          Why is place value important when you add and subtract decimals?
          Summary
          Review and connect what you learned.
          Assignment
          Solve decimal addition and subtraction problems, and write about the solutions.
          Quiz Answers
      Real-World Decimal Problems with Addition and Subtraction Guided Notes
          Warm-Up
          Get ready for the lesson.
          Instruction
          How can you solve real-world problems using decimal addition or decimal subtraction?
          Summary
          Review and connect what you learned.
          Assignment
          Solve real-world decimal problems.

Quiz Answers

Estimating and Finding Decimal Products Guided Notes

Warm-Up

Get ready for the lesson.

Instruction

How can the product of two decimal numbers be estimated?

Summary

Review and connect what you learned.

Assignment

Solve a problem using estimation and write about the solutions.

Using a Rule to Find Decimal Products Guided Notes

Warm-Up

Get ready for the lesson.

Instruction

What rule is used to place the decimal point when multiplying decimal numbers?

Summary

Review and connect what you learned.

Assignment

Solve problems using decimal multiplication, and write about the solutions.

Dividing Decimals Guided Notes

Warm-Up

Get ready for the lesson.

Instruction

How can you divide with decimals and use estimation to check your answer?

Summary

Review and connect what you learned.

Assignment

Explore the steps for long division.

Assignment

Practice dividing with decimals.

Real-World Decimal Problems with Multiplication and Division Guided Notes

Warm-Up

Get ready for the lesson.

Instruction

How can you use decimal multiplication and division to solve real-world problems?

Summary

Review and connect what you learned.

Assignment

Solve real-world decimal problems and write about the solutions.

Fractions

Fraction Multiplication Guided Notes

Warm-Up

Get ready for the lesson.

Instruction

How do you multiply fractions?

Summary

Review and connect what you learned.

Assignment

Practice solving problems involving fraction multiplication.

Quiz Answers

Dividing a Fraction by a Whole Number Guided Notes

Warm-Up

Get ready for the lesson.

Instruction

How can you divide a fraction by a whole number?

Summary

Review and connect what you learned.

Assignment
Solve and write about problems involving dividing a fraction by a whole number.
Using Visual Models in Fraction Division Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How can you use models to divide whole numbers by fractions?
Summary
Review and connect what you learned.
Assignment
Practice dividing whole numbers by fractions.
Dividing a Fraction by a Fraction Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How can you divide a fraction by a fraction?
Summary
Review and connect what you learned.
Assignment
Practice modeling fraction division problems.
Finding a Rule for Dividing Fractions Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
What is a rule for dividing fractions?
Summary
Review and connect what you learned.
Assignment
Solve and write about fraction division.
Fraction Division in the Real World Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How can you solve real-world problems using fraction division?
Assignment
Explore fraction division using fraction bars.
Instruction
How can you solve real-world problems using fraction division?
Summary
Review and connect what you learned.
Assignment
Practice writing and solving fraction division problems.
Fraction Multiplication and Division Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
What situations can be modeled with fraction multiplication and division?
Summary
Review and connect what you learned.
Assignment
Use fraction multiplication and division to solve problems.
Variable and Expressions
Variable and Expressions
Numerical Expressions with Exponents Guided Notes
Warm-Up
Get ready for the lesson.
Instruction

What are powers and exponents?
Summary
Review and connect what you learned.
Assignment
Practice writing and evaluating powers.
Quiz Answers

Expressions with Unknowns Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How do you represent a quantity that is unknown?
Summary
Review and connect what you learned.
Assignment
Explore unknown quantities with algebra tiles.
Assignment
Practice writing expressions involving unknowns.
Quiz Answers

Expressions to Represent Multiplication and Division Problems Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How can you represent multiplication and division expressions with unknowns?
Summary
Review and connect what you learned.
Assignment
Solve and write about representing multiplication and division in algebra.
Quiz Answers

Writing and Evaluating Expressions Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How do you evaluate an algebraic expression?
Summary
Review and connect what you learned.
Assignment
Practice writing and evaluating algebraic expressions.
Quiz Answers

Expressions with More Than One Operation Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How do you represent expressions with more than one operation?
Summary
Review and connect what you learned.
Assignment
Practice writing and evaluating algebraic expressions with more than one operation.
Quiz Answers

Expressions with and without Parentheses Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How do you represent algebraic expressions with and without parentheses?
Summary
Review and connect what you learned.
Assignment
Practice writing and evaluating algebraic expressions with and without parentheses.

Quiz Answers
Equivalent Expressions Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How can you use the properties of operations to write equivalent expressions?
Summary
Review and connect what you learned.
Assignment
Practice writing and evaluating equivalent expressions.
Quiz Answers
Equivalent Expressions and the Distributive Property Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How can you use the distributive property to write equivalent expressions?
Summary
Review and connect what you learned.
Assignment
Practice writing and evaluating equivalent expressions.
Quiz Answers
Determining Equivalent Expressions Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How can you determine if two expressions are equivalent?
Summary
Review and connect what you learned.
Assignment
Practice writing and proving equivalent expressions.
Quiz Answers
Geometry
Area
Area of Parallelograms Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How can you find the area of parallelograms?
Summary
Review and connect what you learned.
Assignment
Solve problems involving the area of parallelograms and write about the solutions.
Quiz Answers
Area of Triangles Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How do you find the area of a triangle?
Summary
Review and connect what you learned.
Assignment
Practice finding the area of triangles.
Quiz Answers
Area of Special Quadrilaterals Guided Notes
Warm-Up
Get ready for the lesson.
Instruction

Assignment
Solve and write with unit rates.
Quiz Answers
Comparing Ratios Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How can you compare ratios?
Summary
Review and connect what you learned.
Assignment
Practice problems comparing ratios.
Quiz Answers
Ratios in Real-World Situations Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How are ratios compared in real-world situations?
Summary
Review and connect what you learned.
Assignment
Practice comparing real-world ratios.
Quiz Answers
Applying Ratios and Rates
Applying Ratios and Rates
Unit Pricing Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How can you use unit rates to solve pricing problems?
Summary
Review and connect what you learned.
Assignment
Solve and write about unit price problems.
Quiz Answers
Other Rate Problems Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How can you use unit rates to solve real-world problems?
Summary
Review and connect what you learned.
Assignment
Practice problems involving unit rates.
Quiz Answers
Percent

Percent
Understanding Percent Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
What is a percent?
Assignment
Explore modeling percents with a grid.
Instruction
What is a percent?
Summary

Review and connect what you learned.

Assignment

Practice solving problems involving percents.

Quiz Answers

Fraction-Decimal-Percent Equivalents Guided Notes

    Warm-Up

Get ready for the lesson.

    Instruction

How can you convert among fractions, decimals, and percents?

    Summary

Review and connect what you learned.

    Assignment

Practice creating equivalent fractions, decimals, and percents.

    Quiz Answers

Finding Friendly Percentages Guided Notes

    Warm-Up

Get ready for the lesson.

    Instruction

How can you use friendly percents?

    Summary

Review and connect what you learned.

    Assignment

Solve and write about friendly percents.

    Quiz Answers

Using Multiplication to Find Percents Guided Notes

    Warm-Up

Get ready for the lesson.

    Instruction

How can you use multiplication to find any percent of a number?

    Summary

Review and connect what you learned.

    Assignment

Solve and write about using multiplication to find any percent of a number.

    Quiz Answers

Using Equivalent Ratios to Find Percents Guided Notes

    Warm-Up

Get ready for the lesson.

    Instruction

How can you use equivalent ratios to find the percent of a number?

    Summary

Review and connect what you learned.

    Assignment

Solve and write about using equivalent ratios to find the percent of a number.

    Quiz Answers

Using Equivalent Ratios to Find a Whole Guided Notes

    Warm-Up

Get ready for the lesson.

    Instruction

How can you use equivalent ratios to find the whole given the part and the percent?

    Summary

Review and connect what you learned.

    Assignment

Practice using equivalent ratios to find a whole.

    Quiz Answers

Rational Numbers

    Rational Numbers

    Negative Numbers in Real-World Contexts Guided Notes

Warm-Up
Get ready for the lesson.
Instruction
How can you represent real-world situations using positive numbers, negative numbers, and zero?
Summary
Review and connect what you learned.
Assignment
Practice using positive numbers, negative numbers, and zero to describe situations.
Quiz Answers

Integers on the Number Line Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
What is the set of integers?
Summary
Review and connect what you learned.
Assignment
Solve problems with integers and number lines and write about the solutions.
Quiz Answers

Absolute Value Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How do you describe a number's distance from zero?
Summary
Review and connect what you learned.
Assignment
Find absolute value in stock price fluctuation.
Quiz Answers

Relationships on the Coordinate Plane
Relationships on the Coordinate Plane
The Coordinate Plane Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How do you describe a location on the coordinate plane?
Summary
Review and connect what you learned.
Assignment
Practice identifying the parts of a coordinate plane.
Quiz Answers

Plotting Points in the Four Quadrants Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How do the signs of the coordinates affect the position of a point in the coordinate plane?
Summary
Review and connect what you learned.
Assignment
Practice working with all four quadrants of the coordinate plane.
Quiz Answers

Distance between Two Points Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How can you find the distance between two points in the coordinate plane?
Summary

Review and connect what you learned.
Assignment
Solve for the distance between points and write about the process.
Quiz Answers
Polygons in the Coordinate Plane Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How can you find dimensions of polygons on a coordinate plane?
Summary
Review and connect what you learned.
Assignment
Explore graphing polygons in the coordinate plane.
Assignment
Practice drawing polygons in the coordinate plane given coordinates for the vertices.
Quiz Answers
Finding Area on a Coordinate Plane Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How do you find the area of a rectangle on a coordinate plane?
Summary
Review and connect what you learned.
Assignment
Practice finding the areas of rectangles on a coordinate plane.
Quiz Answers
Surface Area and Volume
Surface Area and Volume
Three-Dimensional Figures Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How do you represent three-dimensional figures using nets?
Summary
Review and connect what you learned.
Assignment
Practice describing three-dimensional figures.
Quiz Answers
Surface Area of Prisms Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How can you find the surface area of prisms?
Summary
Review and connect what you learned.
Assignment
Find the area of a face of a rectangular prism.
Quiz Answers
Surface Area of Rectangular Pyramids Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How can you find the surface area of square and rectangular pyramids?
Summary
Review and connect what you learned.
Assignment
Practice describing the net of a pyramid.

Quiz Answers
Application of Surface Area in Context Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How do you solve real-world problems involving the surface area of prisms and pyramids?
Summary
Review and connect what you learned.
Assignment
Practice choosing the net for a given situation.
Quiz Answers
Exploring Volume of a Rectangular Prism Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How can you use unit cubes to find the volume of a rectangular prism?
Summary
Review and connect what you learned.
Assignment
Practice finding volumes of prisms.
Quiz Answers
Finding a Formula for the Volume of a Rectangular Prism Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How can you use formulas to find the volume of a rectangular prism?
Summary
Review and connect what you learned.
Assignment
Practice finding volume of a rectangular prism using formulas.
Quiz Answers
Solving Volume Problems with Formulas Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How can you apply the volume formula for rectangular prisms?
Summary
Review and connect what you learned.
Assignment
Practice calculating the volume of a rectangular prism using formulas.
Quiz Answers
Solving Surface Area and Volume Problems Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How do you distinguish between surface area and volume problems?
Summary
Review and connect what you learned.
Assignment
Solve gardening problems involving surface area and volume, and write about the solutions.
Quiz Answers
Equations and Inequalities
Equations and Inequalities
Finding Unknown Numbers Guided Notes
Warm-Up
Get ready for the lesson.
Instruction

How can reasoning help you solve problems to find unknown numbers?
Summary
Review and connect what you learned.
Assignment
Practice using reasoning to find unknown numbers.
Quiz Answers
Writing Equations to Find Unknowns Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How can you use equations to model problems about unknown numbers?
Summary
Review and connect what you learned.
Assignment
Solve and write about writing equations to model problems with unknown numbers.
Quiz Answers
Solving One-Step Equations: Addition and Subtraction Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How can you use inverse operations to solve equations with addition and subtraction?
Summary
Review and connect what you learned.
Assignment
Practice applying the properties of equality to solve equations.
Quiz Answers
Solving One-Step Equations: Multiplication and Division Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How can you use inverse operations to solve equations with multiplication and division?
Summary
Review and connect what you learned.
Assignment
Practice writing and solving equations with multiplication and division.
Quiz Answers
Modeling Real-World Problems with One-Step Equations Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
What situations can you model with one-step equations?
Summary
Review and connect what you learned.
Assignment
Explore solving one-step equations.
Assignment
Practice writing and solving one-step equations.
Quiz Answers
Modeling Relationships Between Real-World Quantities Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How can you use a table to determine the relationship between two quantities?
Summary
Review and connect what you learned.
Assignment
Practice using a table to determine the relationship between two quantities.

Quiz Answers
Relating Relationships Shown in Tables to Equations Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How can equations help you model the relationship between two quantities?
Summary
Review and connect what you learned.
Assignment
Practice modeling problems by writing equations in two variables.
Quiz Answers
Comparing Representations of Modeled Relationships Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How are equations, tables of values, and graphs related?
Summary
Review and connect what you learned.
Assignment
Practice relating equations, tables of values, and graphs.
Quiz Answers
Writing Inequalities Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
In an inequality, what does the variable represent?
Summary
Review and connect what you learned.
Assignment
Represent real-world situations with inequalities.
Quiz Answers
Graphing Inequalities on a Number Line Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
What does the solution to an inequality look like on a number line?
Summary
Review and connect what you learned.
Assignment
Represent real-world situations by graphing solutions of inequalities.
Quiz Answers
Statistics
Data Distributions and Measurement
Plotting Data on a Dot Plot Guided Notes
Warm-Up
Get ready for the lesson.
Instruction
How can you represent data visually using a dot plot?
Summary
Review and connect what you learned.
Assignment
Solve problems involving statistical questions and dot plots, and write about the results.
Quiz Answers
Describing Data on Dot Plots Guided Notes
Warm-Up
Get ready for the lesson.
Instruction

How can you describe data on a dot plot?

Summary

Review and connect what you learned.

Assignment

Practice describing data in dot plots.

Quiz Answers

Representing Data Sets with Histograms Guided Notes

Warm-Up

Get ready for the lesson.

Instruction

How can a histogram help you represent a large data set?

Summary

Review and connect what you learned.

Assignment

Explore how to represent data sets with histograms.

Assignment

Practice using histograms to display data.

Quiz Answers

Finding the Mean Guided Notes

Warm-Up

Get ready for the lesson.

Instruction

How can you represent a data set with a single "typical" value?

Summary

Review and connect what you learned.

Assignment

Practice calculating the mean of a data set.

Quiz Answers

Comparing Mean and Median Guided Notes

Warm-Up

Get ready for the lesson.

Instruction

How does mean compare to median?

Summary

Review and connect what you learned.

Assignment

Practice using the mean and median to describe and compare data sets.

Quiz Answers

Range and Interquartile Range Guided Notes

Warm-Up

Get ready for the lesson.

Instruction

How can you describe data with range and interquartile range?

Summary

Review and connect what you learned.

Assignment

Practice understanding how the range and interquartile range describe data.

Quiz Answers

Data Analysis

Summarizing Data Sets with Statistics Guided Notes

Warm-Up

Get ready for the lesson.

Instruction

How do you use statistics to summarize data sets?

Summary

Review and connect what you learned.

Assignment

Practice finding statistics for data sets.
Quiz Answers
Box Plots Guided Notes
  Warm-Up
  Get ready for the lesson.
  Instruction
  How do box plots describe data sets?
  Summary
  Review and connect what you learned.
  Assignment
  Practice identifying the values needed to create a box plot.
  Quiz Answers
Mean Absolute Deviation Guided Notes
  Warm-Up
  Get ready for the lesson.
  Instruction
  What does mean absolute deviation tell you about a set of data?
  Summary
  Review and connect what you learned.
  Assignment
  Practice solving problems involving absolute deviation.
  Quiz Answers
Data Displays and Statistics Guided Notes
  Warm-Up
  Get ready for the lesson.
  Instruction
  How do you summarize numerical data sets using displays and statistics?
  Summary
  Review and connect what you learned.
  Assignment
  Practice identifying the data set with the greatest number of observations.
  Quiz Answers

% of Course Time: Self-paced, to cover all topics in the outline from above
Textbooks & Supplemental Materials: Edgenuity lessons, supplemented by Cocalico Teachers of Record
Assessments: Edgenuity quizzes and tests, performance tasks
Standards Addressed: Contact the Online Learning Facilitator for a supplemental document from Edgenuity outlining any applicable PA Standards address in the course topics.   Note that for some courses, there are no PA Standards which may exist.

Eagle P.A.C.T. Course Connections:

Online Learning courses help to prepare students for the diverse ways in which they will learn outside of school. The self-paced, independent nature of virtual courses also helps to develop important skills such as self-advocacy, time management, organization, study skills, and self-discipline. Such skills are needed for a successful future.