

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

Department: Cocalico Connections Course: Math 7 Grade Level: 7

Outline for the course:

[Operations with Rational Numbers](#)

[Operations with Integers](#)

[Integers and the Number Line](#) [Guided Notes](#)

[Warm-Up](#)

Get ready for the lesson.

[Instruction](#)

How are integers used to represent real-world situations?

[Summary](#)

Review and connect what you learned.

[Assignment](#)

Practice representing integers.

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[Using Properties of Operations](#) [Guided Notes](#)

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[Instruction](#)

How can you use properties of operations to evaluate expressions?

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[Assignment](#)

Solve a problem about planning a field trip, and write about your solution.

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[Adding Integers](#) [Guided Notes](#)

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[Instruction](#)

How can you add integers in real-world situations?

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Solve problems by adding integers and write about the solutions.

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[Subtracting Integers](#) [Guided Notes](#)

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How can you subtract integers in real-world situations?

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How can you subtract integers in real-world situations?

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How can you multiply integers?

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How can you simplify integer expressions that contain more than one operation?

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How can you solve real-world problems involving integers?

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How are decimals added and subtracted?

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How do you find the product of positive and negative decimals?

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How do you find the quotient of positive and negative decimals?

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How do you add and subtract positive and negative fractions?

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How do you divide positive and negative fractions?

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Solving Problems Involving Rational Numbers Guided Notes

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How can you use the order of operations to solve real-world problems involving rational numbers?

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Expressions and Equations

Variable Expressions

Understanding Expressions Guided Notes

Warm-Up

Get ready for the lesson.

Instruction

What are algebraic expressions?

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Assignment

Practice solving problems involving expressions.

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Writing Expressions Guided Notes

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How do you translate algebraic expressions?

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How can you add and subtract algebraic expressions?

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How can you apply algebraic expressions to solve problems?

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Solve real-world problems involving expressions and write about the solutions.

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How can you translate words into equations?

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How can you solve one-step multiplication and division equations?

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Solve real-world problems involving inequalities and write about the solutions.

Proportional Relationships

Rates and Proportions

Unit Rates Guided Notes

Warm-Up

Get ready for the lesson.

Instruction

How can unit rates and proportional reasoning be used to solve problems?

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Review and connect what you learned.

Assignment

Practice with ratios, unit rates, and proportional reasoning.

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Finding a Constant of Proportionality Guided Notes

Warm-Up

Get ready for the lesson.

Instruction

How can you describe a proportional relationship with a number?

Summary

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Assignment

Practice finding the constant of proportionality.

Quiz Answers

Applications of Unit Rates Guided Notes

Warm-Up

Get ready for the lesson.

Instruction

How are unit rates used in the real world?

Summary

Review and connect what you learned.

Assignment

Solve and write about real-world unit rate problems.

Quiz Answers

Graphing Proportional Relationships Guided Notes

Warm-Up

Get ready for the lesson.

Instruction

How can graphs on the coordinate plane represent proportional relationships?

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Solve and write about proportions with graphs.

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How can you find the original amount in real-world percent problems?

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How can a percent be used to describe a change in quantity?

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Practice finding percent change.

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Applications of Percent Guided Notes

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How do you solve real-world problems that involve multiple percents?

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Practice solving percent problems.

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Geometry

Scale and Proportion

Scale Factor Guided Notes

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How is proportional reasoning used to solve scale drawing problems?

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Practice finding dimensions using scale factors.

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Determining a Scale Factor Guided Notes

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How do you determine a scale factor and use it to find other measures?

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Explore the scale factor of scale drawings.

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Practice finding a scale factor and using it to find missing measures.

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How does changing the scale factor affect the scale drawing and actual dimensions?

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Solve and write about how changing the scale factor affects the model and the actual dimensions.

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Practice analyzing angle-pair relationships.

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What angle relationships exist when parallel lines are cut by a transversal?

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Solve problems involving parallel lines cut by a transversal and write about your results.

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Explore the sides and angles of triangles.

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How can you determine whether given measures will create a triangle?

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What is circumference of a circle and how is it used to solve problems?

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Review and connect what you learned.

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Solve problems with circumference of coins and write about the solutions.

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Area of Polygons Guided Notes

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Get ready for the lesson.

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How can you solve problems involving area of polygons?

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Review and connect what you learned.

Assignment

Solve problems to find the areas of parks, and write about the solutions.

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Area of a Circle Guided Notes

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Get ready for the lesson.

Instruction

How do you find the area of a circle and use it to solve problems?

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Review and connect what you learned.

Assignment

Solve problems involving area of tables and write about the solutions.

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Area of Composite Figures Guided Notes

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Get ready for the lesson.

Instruction

How can you solve problems involving area of composite figures?

Assignment

Explore how to decompose a figure to find its area.

Instruction

How can you solve problems involving area of composite figures?

Summary

Review and connect what you learned.

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Solve and write about area of swimming pools.

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Practice determining the probability of events.

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What is theoretical probability and how can you use it to make predictions?

Summary

Review and connect what you learned.

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Solve and write about theoretical probabilities.

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Experimental Probability Guided Notes

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What is experimental probability?

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Review and connect what you learned.

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Practice using experimental probability.

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Experimental vs. Theoretical Probability Guided Notes

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Get ready for the lesson.

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What is the difference between theoretical probability and experimental probability?

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Explore the relationship between experimental and theoretical probability using probability models.

Instruction

What is the difference between theoretical probability and experimental probability?

Summary

Review and connect what you learned.

Assignment

Practice with probabilities.

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Compound Events and Sample Space Guided Notes

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Get ready for the lesson.

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How can you find all possible outcomes of an experiment?

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Review and connect what you learned.

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Solve problems involving compound events and write about the solutions.

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[Probability of Compound Events](#) [Guided Notes](#)

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How do you calculate the probability for a compound event?

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Practice exploring populations and samples.

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What is random sampling, and how is it used in statistics?

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How can you use random samples to draw inferences about a population?

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Solve problems involving inferences and sample size and write about the solutions.

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How can you compare measures of center and variability of two sets of data?

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Solve problems by comparing two sets of data, and write about the solutions.

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How can you compare populations using measures of center and variability?

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Review and connect what you learned.

% 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.