

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

Department: Cocalico Connections

Course: MS Algebra IB

Grade Level: 8

Outline for the course:

[Real Number System](#)

[Exploring Real Numbers](#) [Guided Notes](#)

[Warm-Up](#)

Get ready for the lesson.

[Instruction](#)

What are irrational numbers?

[Summary](#)

Review and connect what you learned.

[Assignment](#)

Practice working with rational and irrational numbers.

[Quiz Answers](#)

[Estimating and Comparing Square Roots](#) [Guided Notes](#)

[Warm-Up](#)

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How can you estimate and compare square roots?

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[Assignment](#)

Explore square roots using the number line.

[Assignment](#)

Practice estimating and comparing square roots.

[Quiz Answers](#)

[Solving Equations](#)

[Combining Like Terms to Solve Equations](#) [Guided Notes](#)

[Warm-Up](#)

Get ready for the lesson.

[Instruction](#)

How can you solve linear equations by combining like terms?

[Summary](#)

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[Assignment](#)

Practice combining like terms and using inverse operations to solve equations.

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[Solving with the Distributive Property](#) [Guided Notes](#)

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How do you solve linear equations using the distributive property?

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Practice solving one-variable equations using the distributive property.

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[Solving Equations with Rational Numbers](#) [Guided Notes](#)

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How can you solve linear equations that include rational numbers?

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Practice solving equations with rational numbers.

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[Modeling with Variables on Both Sides](#) [Guided Notes](#)

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How can modeling be used to solve equations with variables on both sides?

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Explore equations using algebra tiles.

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Practice modeling and solving equations using algebra tiles.

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How can you solve equations with variables on both sides of the equals sign?

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[Assignment](#)

Practice solving equations with variables on both sides.

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[Solving Real-World Multistep Equations](#) [Guided Notes](#)

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How can you solve multistep equations that represent real-world scenarios?

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Practice writing and solving real-world multistep equations.

[Assignment](#)

Practice applying given information to solve real-world multistep equations.

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[Analyzing Solutions](#) [Guided Notes](#)

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How can you identify the number of solutions of linear equations?

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Practice identifying solutions to linear equations.

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[Working with Exponents](#)

[Powers and Exponents](#) [Guided Notes](#)

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How can you use powers and exponents to express known quantities?

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[Powers with the Same Base](#) [Guided Notes](#)

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Instruction

How can you multiply and divide powers with the same base?

Summary

Review and connect what you learned.

Assignment

Practice multiplying and dividing powers with the same base.

Raising a Power to a Power Guided Notes

Warm-Up

Get ready for the lesson.

Instruction

What does it mean to raise a power to another power?

Summary

Review and connect what you learned.

Assignment

Practice simplifying expressions using the power of a power and the power of a product rules.

Zero and Negative Exponents Guided Notes

Warm-Up

Get ready for the lesson.

Instruction

How can you simplify and evaluate expressions with zero and negative exponents?

Summary

Review and connect what you learned.

Assignment

Practice simplifying and evaluating powers with zero and negative exponents.

Quiz Answers

Evaluating Expressions with Exponents Guided Notes

Warm-Up

Get ready for the lesson.

Instruction

How can you simplify and evaluate expressions with exponents?

Summary

Review and connect what you learned.

Assignment

Practice simplifying and evaluating expressions with exponents.

Pythagorean Theorem and Irrational Numbers

Exploring the Pythagorean Theorem Guided Notes

Warm-Up

Get ready for the lesson.

Instruction

What are properties of right triangles?

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Practice using the Pythagorean theorem.

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[Finding the Hypotenuse in Right Triangles](#) [Guided Notes](#)

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How can you find the length of the hypotenuse of a right triangle?

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[Unknown Leg Lengths in Right Triangles](#) [Guided Notes](#)

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How do you find the length of an unknown leg in a right triangle?

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Practice using the Pythagorean theorem to find the missing leg in a right triangle.

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[Pythagorean Theorem in Three Dimensions](#) [Guided Notes](#)

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How do you find unknown side lengths of a right triangle within a cube?

[Summary](#)

Review and connect what you learned.

[Assignment](#)

Practice using the Pythagorean theorem in three dimensions.

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[Converse to the Pythagorean Theorem](#) [Guided Notes](#)

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What is the converse of the Pythagorean theorem and how is it used?

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Review and connect what you learned.

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Solve problems to determine right triangles and write about the solutions.

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How can you find distance on the coordinate plane?

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Practice finding distances on the coordinate plane.

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[Volume](#)

[Introduction to the Volume of a Cylinder](#) [Guided Notes](#)

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How can you find the volume of a cylinder?

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Solve for volume of a cylinder and write about your answer.

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[Applications with the Volume of a Cylinder](#) [Guided Notes](#)

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How can you apply the formula for the volume of a cylinder to solve problems?

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Explore possible volumes when changing the dimensions of a cylinder.

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How can you apply the formula for the volume of a cylinder to solve problems?

[Summary](#)

Review and connect what you learned.

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Practice applying the volume formula of a cylinder to solve problems.

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[Introduction to the Volume of a Cone](#) [Guided Notes](#)

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How do you find the volume of a cone?

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Practice determining volumes of cones.

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Practice solving problems by applying the formula for the volume of a cone.

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How can you find the volume of a sphere?

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Practice finding the volume of a sphere.

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How can you apply the formulas for volume of a cube and a sphere to solve problems?

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Practice applying the formulas for volume of a cube and a sphere.

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[Linear Equations](#)

[Rate of Change and Introduction to Slope](#) [Guided Notes](#)

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How can you find the slope of a line and use it to solve problems?

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Practice determining slope in tables and graphs.

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How are slopes different from each other?

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Practice finding the value of slope from tables and graphs.

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How can you represent a real-world situation with a linear function?

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Solve problems by representing real-world situations with linear equations.

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What can a set of points tell you about a linear relationship?

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Practice constructing linear functions using data from tables and graphs.

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How does knowing the slope and y-intercept help you graph and write the equation of a line?

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Solve problems using slope-intercept form, and write about your solutions.

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How can you determine the characteristics of linear functions that are represented in different ways?

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Compare the different representations of linear functions.

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How do you write a linear equation given the slope and a point that is not the y-intercept?

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Practice writing equations given the slope and a point.

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How do you write an equation of a linear function using two points?

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Explore writing linear equations.

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Practice writing linear equations given two points.

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What information do you need to graph a linear function?

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Explore the graphs of linear functions.

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Practice graphing linear functions.

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How can the standard form of a linear function be used to model real-world scenarios?

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Find intercepts and interpret their meaning.

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Solve and write about an assembly line.

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What is a function and how can I identify one?

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Identify functions from different representations.

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Warm-Up

Get ready for the lesson.

Instruction

How can you use linear relationships to compare real-world situations?

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Review and connect what you learned.

Assignment

Solve problems comparing functions and write about the conclusions.

Assignment

Practice comparing linear functions of real-world scenarios.

Quiz Answers

Linear vs. Nonlinear Functions Guided Notes

Warm-Up

Get ready for the lesson.

Instruction

What is the difference between linear and nonlinear functions?

Summary

Review and connect what you learned.

Assignment

Practice identifying linear and nonlinear functions.

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Inequalities

Solving Systems of Linear Inequalities Guided Notes

Warm-Up

Get ready for the lesson.

Instruction

What does it mean to be a solution of a system of linear inequalities?

Summary

Review and connect what you learned.

Assignment

Practice analyzing solutions to a system of two-variable linear inequalities.

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Solving One-Variable Inequalities Guided Notes

Warm-Up

Get ready for the lesson.

Instruction

Can all one-variable inequalities be simplified to a two-step inequality?

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Review and connect what you learned.

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Practice solving and graphing multiple-step, one-variable linear inequalities.

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[Solving Compound Inequalities](#) [Guided Notes](#)

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What types of problems can be modeled with a compound inequality?

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Practice writing, solving, and graphing compound inequalities.

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What type of problem can be modeled and solved with a two-variable linear inequality?

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What type of problem can be modeled and solved with a system of linear inequalities?

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What is a compound inequality and what does its solution look like?

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Practice with compound inequalities.

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What does the graph of a two-variable linear inequality look like?

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Practice interpreting two-variable linear inequalities.

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How do you use graphs to solve a system of two linear equations?

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[Estimating Solutions of Systems](#) [Guided Notes](#)

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How do you estimate a solution of a system of linear equations graphically?

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Practice estimating solutions using graphs.

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How can you use addition to solve systems of linear equations?

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[Multiplying One Equation to Solve Systems](#) [Guided Notes](#)

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How can you use the linear combination method to solve a system of equations?

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Practice using equivalent equations to solve systems of equations.

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How do you solve a system of equations using the substitution method?

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Practice solving by using the substitution method.

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How do you prepare equations to be solved using substitution?

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Practice solving systems that are not in slope-intercept form.

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[Patterns in Bivariate Data](#)

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What is a scatterplot and what does it represent?

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Solve problems of bivariate data and write about creating scatterplots.

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How do you interpret clusters and outliers in a scatterplot?

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Practice identifying clusters and outliers.

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[Exploring Association](#) [Guided Notes](#)

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How are data associated with each other in a scatterplot?

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Practice analyzing scatterplots.

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[Drawing Trend Lines](#) [Guided Notes](#)

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How do you use a trend line to describe the relationship of data in a scatterplot?

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Solve and write about drawing trend lines on scatterplots.

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How do you write the equation for a trend line?

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Solve and write about equations of trend lines.

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[Making Predictions](#) [Guided Notes](#)

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How do you use a trend line to make a prediction?

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Explore making predictions from a scatterplot.

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How can you compare data sets?

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Practice comparing data sets.

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Solve a problem comparing data sets and write about the solution.

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[Making Two-Way Tables](#) [Guided Notes](#)

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How can you represent data that relates to two different categories?

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Practice making two-way tables.

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[Interpreting Two-Way Tables](#) [Guided Notes](#)

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How can you recognize and interpret associations in two-way tables?

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Practice finding and analyzing relative frequencies.

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[Congruence](#) [Guided Notes](#)

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How can you determine if two figures are identical?

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Review and connect what you learned.

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Practice finding congruent figures.

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[Overview of Transformations](#) [Guided Notes](#)

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Get ready for the lesson.

[Assignment](#)

Explore the movement of figures.

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How do we describe the movement of figures?

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Review and connect what you learned.

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Practice identifying transformations and their images.

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How does a translation move a figure?

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Practice identifying translations on a plane.

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How does a reflection change a figure?

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Practice finding reflections.

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[Rotations in the Coordinate Plane](#) [Guided Notes](#)

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How do figures rotate in the coordinate plane?

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Practice finding images of rotations.

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[Congruence and Transformations](#) [Guided Notes](#)

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How can transformations show that two images are congruent?

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Review and connect what you learned.

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Practice solving problems involving congruence and transformations.

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[Dilations](#) [Guided Notes](#)

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How does a dilation change a figure?

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Practice with dilations and scale factors.

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[Similarity and Transformations](#) [Guided Notes](#)

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How do transformations result in similar figures?

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Practice with transformations resulting in similar figures.

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[Polynomials and Factoring](#)

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Does the order of operations apply to algebraic expressions?

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Review and connect what you learned.

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[Assignment](#)

Practice multiplying polynomials.

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[Factoring Polynomials Completely](#) [Guided Notes](#)

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When is a polynomial factored completely?

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Practice factoring a polynomial completely.

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[Scientific Notation](#)

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How do you multiply and divide with scientific notation?

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Practice multiplying and dividing numbers in scientific notation.

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What is scientific notation?

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Solve problems with very large and very small numbers, and write about scientific notation.

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[Addition and Subtraction with Scientific Notation](#) [Guided Notes](#)

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Get ready for the lesson.

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How do you add and subtract numbers written in scientific notation?

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Review and connect what you learned.

Assignment

Practice adding and subtracting numbers written in scientific notation.

% 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.