Mathematics II extends students’ geometric knowledge and introduces them to quadratic expressions, equations, and functions, exploring the relationship between these and their linear and exponential counterparts. Students learn through discovery and application, developing the skills they need to break down complex challenges and demonstrate their knowledge in new situations.

Course topics include extending the number system; quadratic functions and modeling; expressions and equations; applications of probability; similarity, right-triangle trigonometry, and proof; and circles with and without coordinates.

This course supports all students as they develop computational fluency and deepen conceptual understanding. Students begin each lesson by discovering new concepts through guided instruction, and then confirm their understanding in an interactive, feedback-rich environment. Modeling activities equip students with tools for analyzing a variety of real-world scenarios and mathematical ideas. Journaling activities allow students to reason abstractly and quantitatively, construct arguments, critique reasoning, and communicate precisely. Performance tasks prepare students to synthesize their knowledge in novel, real-world scenarios and require that they make sense of multifaceted problems and persevere in solving them.

Length: Two Semesters

UNIT 1: FUNCTIONS

LESSON 1: WHAT IS A FUNCTION?

Study: Relating to Functions
Learn about functions, their graphs, and some special functions.

Duration: 0 hrs 35 mins

Checkup: Lessons Learned
Complete a set of practice problems on functions.

Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: What Is a Function?
Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 2: GRAPHING FUNCTIONS
Study: Graphing Functions
Learn the vertical line and horizontal line tests for evaluating a function. Evaluate a function for given values and explore special functions.
Duration: 0 hrs 35 mins

Checkup: Lessons Learned
Complete a set of practice problems on graphing functions.
Duration: 0 hrs 25 mins

Quiz: Graphing Functions
Take a quiz to assess your understanding of the material.
Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 3: LINEAR FUNCTIONS

Study: Linear Functions
Learn about slope and the three main forms of linear functions.
Duration: 0 hrs 35 mins

Checkup: Lessons Learned
Complete a set of practice problems on linear functions.
Duration: 0 hrs 25 mins

Quiz: Linear Functions
Take a quiz to assess your understanding of the material.
Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 4: LINEAR EQUATIONS AND INEQUALITIES

Study: Linear Equations and Inequalities
Learn how to solve linear equations and inequalities.
Duration: 0 hrs 35 mins

Checkup: Lessons Learned
Complete a set of practice problems on linear equations and inequalities.
Duration: 0 hrs 25 mins

Quiz: Linear Equations and Inequalities
Take a quiz to assess your understanding of the material.
Duration: 0 hrs 20 mins Scoring: 20 points

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Journal: The Summer Job
Work through a real-world problem involving linear equations and inequalities.
Duration: 0 hrs 30 mins Scoring: 20 points

LESSON 5: LINEAR SYSTEMS

Study: Finding the Point of Intersection
Find the point of intersection of linear systems using algebra, graphing, and matrices.
Duration: 0 hrs 35 mins

Study: Connection to Business: Linear Programming
Learn how businesses solve problems using linear programming.
Duration: 0 hrs 35 mins

Checkup: Lessons Learned
Complete a set of practice problems on linear systems.
Duration: 0 hrs 25 mins

Quiz: Linear Systems
Take a quiz to assess your understanding of the material.
Duration: 0 hrs 20 mins Scoring: 20 points

Practice: Modeling: Best Ticket Deal
Model ticket pricing using an equation.
Duration: 0 hrs 30 mins Scoring: 20 points

LESSON 6: LINEAR AND NONLINEAR FUNCTIONS

Study: Linear and Nonlinear Functions
Learn about linear and nonlinear functions.
Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Linear and Nonlinear Functions
Take a quiz to check your understanding of what you have learned.
Duration: 0

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LESSON 7: LINEAR AND EXPONENTIAL GROWTH

Study: Linear and Exponential Growth
Learn to identify the graphs of linear and nonlinear functions, use the horizontal line test to evaluate functions, and explore special functions.

Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Linear and Exponential Growth
Take a quiz to check your understanding of what you have learned.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 8: ARITHMETIC OF FUNCTIONS

Study: Arithmetic of Functions
Learn how to add, subtract, multiply, divide, and compose functions.

Duration: 0 hrs 35 mins

Checkup: Lessons Learned
Complete a set of practice problems on the arithmetic of functions.

Duration: 0 hrs 25 mins

Quiz: Arithmetic of Functions
Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins
Scoring: 20 points

LESSON 9: FUNCTIONS WRAP-UP

Checkup: Functions Practice Problems
Check your understanding of the unit.

Duration: 0 hrs 25 mins Scoring: 0 points

Review: Functions

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Get ready for the unit test by reviewing important ideas and skills.

**Test (CS): Functions**
Take a computer-scored test to check what you have learned in this unit.
*Duration: 0 hrs 40 mins
Scoring: 50 points*

**Test (TS): Functions**
Take a teacher-scored test to check what you have learned in this unit.
*Duration: 0 hrs 30 mins
Scoring: 50 points*

**UNIT 2: EXPONENTIAL FUNCTIONS**

**LESSON 1: TYPES OF NUMBERS**

**Study: Types of Numbers**
Learn about different types of real numbers, including exponents decimals and percents. Compare numbers of different types and formats using a number line.
*Duration: 0 hrs 35 mins Scoring: 0 points*

**Checkup: Practice Problems**
Complete a set of practice problems to hone your calculation skills.
*Duration: 0 hrs 25 mins Scoring: 0 points*

**Quiz: Types of Numbers**
Take a quiz to assess your understanding of the material.
*Duration: 0 hrs 20 mins Scoring: 20 points*

**Quiz: Rational and Irrational Numbers**
Take a quiz to check your understanding of what you have learned.
*Duration: 0 hrs 20 mins Scoring: 20 points*

**LESSON 2: EXPONENTS**

**Study: Exponents**
Review exponents and their place in the order of operations. Learn ways to evaluate exponential expressions. Learn about fractional and decimal exponents, radical notation, square roots, and scientific notation.
*Duration:*

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LESSON 3: EXPONENTIAL FUNCTIONS

Study: Exponential Functions
Define the standard form of an exponential function and explore a variety of its applications, such as exponential growth and decay (in the forms of doubling time and half-life), as well as compound interest. Compare compound interest to continuously compounded interest using the irrational number e.

Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Complete a set of practice problems to check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Evaluating Exponential Functions
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

Quiz: Calculating Exponential Growth
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 4: EXAMPLES AND APPLICATIONS OF EXPONENTIAL FUNCTIONS

Study: Examples and Applications of Exponential Functions
Explore case studies in exponential growth and decay.
and logarithmic growth.

**Practice: Modeling: Valuable Coins**
Use tools to model and solve a real-world problem.
*Duration: 0 hrs 30 mins*
*Scoring: 20 points*

**Study: Simple and Compound Interest**
Learn about simple and compound interest.
*Duration: 0 hrs 35 mins Scoring: 0 points*

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**LESSON 5: GRAPHS OF EXPONENTIAL FUNCTIONS**

**Study: Graphs of Exponential Functions**
Learn about the shape of graphs of exponential functions with various bases and about finding the domain and range of exponential functions.
*Duration: 0 hrs 35 mins Scoring: 0 points*

**Checkup: Practice Problems**
Complete a set of practice problems to check your understanding of the lesson.
*Duration: 0 hrs 25 mins Scoring: 0 points*

**Quiz: Graphs of Exponential Functions**
Take a quiz to check your understanding of what you have learned.
*Duration: 0 hrs 20 mins Scoring: 20 points*

**Journal: Graphs of Exponential Functions**
Construct arguments and critique the reasoning of others as you write about topics in algebra.
*Duration: 0 hrs 30 mins Scoring: 20 points*

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**LESSON 6: EXPONENTIAL FUNCTIONS WRAP-UP**

**Checkup: Exponential Functions Practice Problems**
Check your understanding of the topics in this unit.
*Duration: 0 hrs 25 mins Scoring: 0 points*

**Review: Exponential Functions**
Get ready for the unit test by reviewing important ideas and skills.
UNIT 3: POLYNOMIALS

LESSON 1: WHAT IS A POLYNOMIAL?

Study: What Is a Polynomial?
Learn the definitions for monomials, polynomials, constants, terms, coefficients, binomials, trinomials, and degree. Learn how to find the degree of polynomials.
Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Degrees of Polynomials
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

Quiz: Degrees of Polynomials (Advanced)
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 2: ADDING AND SUBTRACTING POLYNOMIALS

Study: Adding and Subtracting Polynomials
Learn how tiles can be used to add or subtract like terms in polynomials.
Practice adding and subtracting polynomials.
Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
LESSON 3: MULTIPLYING BINOMIALS

Study: Multiplying Binomials
Learn how tiles can be used to multiply linear binomials. Practice using the distributive property and the FOIL method to multiply two binomials.

Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Finding Products of Binomials
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

Quiz: Finding the Product of Two Binomials
Take a quiz to check your understanding of what you have learned.

Duration: 0 hrs 20 mins Scoring: 20 points

Quiz: The FOIL Method
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins
Scoring: 20 points

Practice: Modeling: Multiplying Binomials
Use tools to model and solve a real-world problem.

Duration: 0 hrs 30 mins
LESSON 4: MULTIPLYING POLYNOMIALS

Study: Multiplying Polynomials
Use a table to begin learning how to multiply polynomials. Explore how polynomials can be multiplied vertically and horizontally.

*Duration: 0 hrs 35 mins Scoring: 0 points*

Checkup: Practice Problems
Check your understanding of the lesson.

*Duration: 0 hrs 25 mins Scoring: 0 points*

Quiz: Polynomial Multiplication
Take a quiz to check your understanding of what you have learned.

*Duration: 0 hrs 20 mins Scoring: 20 points*

Quiz: Polynomial Multiplication (Advanced)
Take a quiz to check your understanding of what you have learned.

*Duration: 0 hrs 20 mins Scoring: 20 points*

Journal: Multiplying Polynomials
Construct arguments and critique the reasoning of others as you write about topics in algebra.

*Duration: 0 hrs 30 mins Scoring: 20 points*

LESSON 5: DIVIDING POLYNOMIALS

Study: Dividing Polynomials
Learn how to do long division with polynomials. Find out how to divide polynomials with missing terms and divide polynomials with remainders.

*Duration: 0 hrs 35 mins Scoring: 0 points*

Checkup: Practice Problems
Check your understanding of the lesson.

*Duration: 0 hrs 25 mins Scoring: 0 points*

Quiz: Polynomial Long Division
Take a quiz to check your understanding of what you have learned.

*Duration: 0 hrs 20 mins Scoring: 20 points*
LESSON 6: POLYNOMIALS WRAP-UP

Checkup: Polynomials Practice Problems
Check your understanding of the topics in this unit.
Duration: 0 hrs 25 mins
Scoring: 0 points

Review: Polynomials
Get ready for the unit test by reviewing important ideas and skills.
Duration: 0 hrs 20 mins Scoring: 0 points

Test (CS): Polynomials
Take a computer-scored test to check what you have learned in this unit.
Duration: 0 hrs 40 mins Scoring: 50 points

Test (TS): Polynomials
Take a teacher-scored test to check what you have learned in this unit.
Duration: 0 hrs 30 mins
Scoring: 50 points

UNIT 4: FACTORING OF POLYNOMIALS

LESSON 1: WHY FACTOR?

Study: Why Factor?
Explore the similarities between factoring numbers and polynomials. Learn the definitions for reducible polynomials, composite numbers, and the zero-product rule.
Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Factoring Polynomials
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 2: FACTORING WITH TILES

Study: Factoring with Tiles
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Review how to use tiles to find the factors of a polynomial.

Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Factoring Polynomials with Tiles
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

Practice: Modeling: Factoring with Tiles
Use tools to model and solve a real-world problem.
Duration: 0 hrs 30 mins
Scoring: 20 points

LESSON 3: FACTORING AND GRAPHING

Study: Factoring and Graphing
Compare roots and linear factors. Identify the roots of a polynomial. Explore what it means for a polynomial to have one root or no roots.
Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Factoring by Graphing
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

Quiz: Factoring by Graphing (Advanced)
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 4: GROUPING

Study: Grouping
Find the greatest common factor (GCF) in a polynomial. Use the grouping method to factor one or more GCFs out of a polynomial.
LESSON 5: FACTORING \( X^2 + BX + C \)

Study: Factoring \( x^2 + bx + c \)
Learn the definitions for quadratic trinomials and leading coefficients. Learn how to factor quadratic trinomials with leading coefficients of 1.
Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Binomial Factors of Trinomials
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

Quiz: Factoring Trinomials
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 6: FACTORING \( AX^2 + BX + C \)

Study: Factoring \( ax^2 + bx + c \)
Learn how to factor quadratic trinomials with leading coefficients other than 1.
Duration: 0 hrs 35 mins Scoring: 0 points
Checkup: Practice Problems
Check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Factoring Trinomials (Basic)
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

Quiz: Factoring Trinomials (Advanced)
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

Journal: Factoring \( ax^2 + bx + c \)
Construct arguments and critique the reasoning of others as you write about topics in algebra.
Duration: 0 hrs 30 mins Scoring: 20 points

LESSON 7: SPECIAL CASES

Study: Special Cases
Learn how to work with special cases of factoring. Learn definitions for a perfect square trinomial, a difference of two squares, and a sum or difference of cubes. Practice using strategies that will help you factor each of these special cases.
Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Factoring a Difference of Squares
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

Quiz: Factoring Perfect Square Trinomials
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

Quiz: Sum or Difference of Two Cubes
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points
LESSON 8: FACTORING OF POLYNOMIALS WRAP-UP

Checkup: Factoring of Polynomials Practice Problems
Check your understanding of the topics in this unit.
Duration: 0 hrs 25 mins Scoring: 0 points

Review: Factoring of Polynomials
Get ready for the unit test by reviewing important ideas and skills.
Duration: 0 hrs 30 mins Scoring: 0 points

Test (CS): Factoring of Polynomials
Take a computer-scored test to check what you have learned in this unit.
Duration: 0 hrs 40 mins Scoring: 50 points

Test (TS): Factoring of Polynomials
Take a teacher-scored test to check what you have learned in this unit.
Duration: 0 hrs 30 mins Scoring: 50 points

UNIT 5: QUADRATIC EQUATIONS AND FUNCTIONS

LESSON 1: PARABOLAS

Study: Parabolas
Learn about finding a parabola's equation from its graph; the effect of the squared variable's coefficient on the parabola's orientation and shape; equations of parabolas with vertices at points other than the origin; vertex form and standard form of an equation for a parabola; and converting between vertex form and standard form.
Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Complete a set of practice problems to check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Parabolas with Vertices at the Origin
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

Quiz: Parabolas with Vertices Not at the Origin
Take a quiz to check your understanding of what you have learned.
LESSON 2: SOLVING QUADRATIC EQUATIONS

Study: Solving Quadratic Equations
Compare quadratic and nonquadratic equations. Learn how to solve quadratic equations by using factoring and the zero-product rule.
Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Factoring with the Zero-Product Rule
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

Quiz: Converting Quadratics to Standard Form
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

Quiz: Quadratics with Perfect Square Trinomials
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 3: COMPLETING THE SQUARE

Study: Completing the Square
Learn the definition for a special case of factoring called completing the square. Explore the steps to complete a square and practice solving quadratic equations by using this way of factoring.
Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.
LES S S S S 4: T H E Q U A D R A T I C F O R M U L A

Study: The Quadratic Formula
Learn the definitions for the quadratic formula, imaginary numbers, complex numbers, and discriminants. Explore how the quadratic formula works and practice using it to factor quadratic equations.
Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Complex Numbers and Discriminants
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

Quiz: The Quadratic Formula
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

LES S S S S 5: G R A P H S O F Q U A D R A T I C F U N C T I O N S

Study: Graphs of Quadratic Functions
Relate factors of a quadratic function to the graph of a parabola and its corresponding x-intercepts. Locate the vertex of a quadratic function graphically and algebraically. Use the discriminant of
the quadratic formula to identify the number and types of solutions to a given quadratic equation, as well as to visualize its corresponding graph.

Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Complete a set of practice problems to check your understanding of the lesson.
Duration:
0 hrs 25 mins Scoring: 0 points

Quiz: Graphs of Quadratic Functions
Take a quiz to check your understanding of what you have learned.
Duration: 0
hrs 20 mins Scoring: 20 points

Quiz: Working with the Discriminant
Take a quiz to check your understanding of what you have learned.
Duration: 0
hrs 20 mins Scoring: 20 points

LESSON 6: WORKING WITH COMPLEX NUMBERS

Study: Working with Complex Numbers
Learn about imaginary and complex numbers, perform basic arithmetic operations on complex numbers, and solve equations with imaginary and complex numbers.
Duration: 0 hrs 35 mins
Scoring: 0 points

Checkup: Practice Problems
Complete a set of practice problems to check your understanding of the lesson.
Duration:
0 hrs 25 mins Scoring: 0 points

Quiz: Imaginary Numbers
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins
Scoring: 20 points

Quiz: Operations on Complex Numbers
Take a quiz to check your understanding of what you have learned.
Duration:
0 hrs 20 mins Scoring: 20 points

Quiz: Quadratics With Complex Solutions
Take a quiz to check your understanding of what you have learned.

Duration: 0 hrs 20 mins Scoring: 20 points
LESSON 7: NONLINEAR SYSTEMS OF EQUATIONS

Study: Nonlinear Systems of Equations
Learn about solution sets for nonlinear systems of equations, solving nonlinear systems of equations using the substitution method, choosing which variable to isolate, substituting a squared variable, and determining the number of solutions. Explore a human-cannonball case study.
Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Complete a set of practice problems to check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Nonlinear Systems of Equations
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 8: LINEAR, QUADRATIC, AND EXPONENTIAL MODELS

Study: Linear, Quadratic, and Exponential Models
Identify and compare linear, quadratic, and exponential functions and write functions that model real-world situations.
Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Linear, Quadratic, and Exponential Models
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

Practice: Modeling: Linear, Quadratic, and Exponential Models
Use tools to model and solve a real-world problem.
Duration: 0 hrs 30 mins Scoring: 20 points

LESSON 9: PERFORMANCE TASK: PRICING FOR PROFIT

Study: The Radio Problem
Use what you have learned about graphing polynomials to solve a real-world business

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Problem.

Duration: 0 hrs 35 mins Scoring: 0 points

Project: Your Dog-Walking Business
Use your knowledge, skills, and resources to make sense of and persevere in solving a real-world problem.

Duration: 2 hrs Scoring: 120 points

LESSON 10: QUADRATIC EQUATIONS AND FUNCTIONS WRAP-UP

Checkup: Quadratic Equations and Functions Practice Problems
Check your understanding of the topics in this unit.

Duration: 0 hrs 25 mins Scoring: 0 points

Review: Quadratic Equations and Functions
Get ready for the unit test by reviewing important ideas and skills.

Duration: 0 hrs 30 mins Scoring: 0 points

Test (CS): Quadratic Equations and Functions
Take a computer-scored test to check what you have learned in this unit.

Duration: 0 hrs 40 mins Scoring: 50 points

Test (TS): Quadratic Equations and Functions
Take a teacher-scored test to check what you have learned in this unit.

Duration: 0 hrs 30 mins Scoring: 50 points

UNIT 6: UNDOING FUNCTIONS AND MOVING THEM AROUND

LESSON 1: INVERSES

Study: Inverses
Learn about undoing functions, mapping diagrams of inverse functions, and finding the equations for inverse functions.

Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Complete a set of practice problems to check your understanding of the lesson.

Duration:
0 hrs 25 mins Scoring: 0 points

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Quiz: Inverses with Variables $x$ and $y$
Take a quiz to check your understanding of what you have learned.

*Duration: 0 hrs 20 mins Scoring: 20 points*

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Quiz: Inverses with Other Variables
Take a quiz to check your understanding of what you have learned.

*Duration: 0 hrs 20 mins Scoring: 20 points*

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**LESSON 2: GRAPHS OF INVERSES**

Study: Graphs of Inverses
Learn how to convert the graph of a given function to the graph of its inverse by swapping coordinates of all ordered pairs. Use mapping diagrams, horizontal line tests, and the concept of symmetry across the line $y = x$ to determine if the inverse of a given function is also a function.

*Duration: 0 hrs 35 mins Scoring: 0 points*

Checkup: Practice Problems
Complete a set of practice problems to check your understanding of the lesson.

*Duration: 0 hrs 25 mins Scoring: 0 points*

Quiz: Graphs of Inverses
Take a quiz to check your understanding of what you have learned.

*Duration: 0 hrs 20 mins Scoring: 20 points*

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**LESSON 3: PARENT FUNCTIONS**

Study: Parent Functions
Learn about the properties and graphs of linear parent functions, quadratic parent functions, absolute value parent functions, and reciprocal parent functions.

*Duration: 0 hrs 35 mins Scoring: 0 points*

Checkup: Practice Problems
Complete a set of practice problems to check your understanding of the lesson.

*Duration: 0 hrs 25 mins Scoring: 0 points*

Quiz: Parent Functions
Take a quiz to check your understanding of what you have learned.

*Duration: 0 hrs 20 mins Scoring: 20 points*
LESSON 4: SHIFTING FUNCTIONS

Study: Shifting Functions
Learn about shifting graphs of functions up/down and left/right by changing the coordinates of each ordered pair. Learn about changing the equation of a function to shift its graph vertically or horizontally and about combining vertical and horizontal shifts.
*Duration: 0 hrs 35 mins Scoring: 0 points*

Checkup: Practice Problems
Complete a set of practice problems to check your understanding of the lesson.
*Duration: 0 hrs 25 mins Scoring: 0 points*

Quiz: Shifting Functions Vertically
Take a quiz to check your understanding of what you have learned.
*Duration: 0 hrs 20 mins Scoring: 20 points*

Quiz: Shifting Functions Horizontally
Take a quiz to check your understanding of what you have learned.
*Duration: 0 hrs 20 mins Scoring: 20 points*

Quiz: Shifting Functions Vertically and Horizontally
Take a quiz to check your understanding of what you have learned.
*Duration: 0 hrs 20 mins Scoring: 20 points*

Journal: Shifting Functions
Construct arguments and critique the reasoning of others as you write about topics in algebra.
*Duration: 0 hrs 30 mins Scoring: 20 points*

LESSON 5: STRETCHING FUNCTIONS VERTICALLY

Study: Stretching Functions Vertically
Learn about vertically stretching or compressing a function's graph by multiplying by a constant; flipping the graph by multiplying by a negative constant; and combining vertical stretches with vertical or horizontal shifts.
*Duration: 0 hrs 35 mins Scoring: 0 points*

Checkup: Practice Problems
Complete a set of practice problems to check your understanding of the lesson.
*Duration: 0 hrs 25 mins Scoring: 0 points*
Quiz: Stretching Functions Vertically
Take a quiz to check your understanding of what you have learned.

Duration: 0 hrs 20 mins Scoring: 20 points

Practice: Modeling: Stretching Functions Vertically
Use tools to model and solve a real-world problem.

Duration: 0 hrs 30 mins Scoring: 20 points

Study: Solving the Ball-Tossing Problem
Learn about shifting and stretching graphs and using inverses and about how to apply these methods to the real-world problem of tossing a ball. Learn about using average velocity as an estimate of instantaneous velocity.

Duration: 0 hrs 35 mins Scoring: 0 points

LESSON 6: TRANSFORMATION OF PARENT FUNCTIONS

Study: Transformation of Parent Functions
Learn how to perform vertical shifts, horizontal shifts, vertical stretches and compressions, horizontal stretches and compressions, and any combination of these transformations on parent functions.

Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Transformation of Parent Functions
Take a quiz to check your understanding of what you have learned.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 7: UNDOING FUNCTIONS AND MOVING THEM AROUND WRAP-UP

Checkup: Undoing Functions and Moving Them Around Practice Problems
Check your understanding of the topics in this unit.

Duration: 0 hrs 25 mins Scoring: 0 points

Review: Undoing Functions and Moving Them Around
Get ready for the unit test by reviewing important ideas and skills.

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UNIT 7: APPLICATIONS OF PROBABILITY

LESSON 1: WHAT IS PROBABILITY?

Study: What Is Probability?
Learn the definition for probability and explore its different forms.
*Duration: 0 hrs 35 mins  Scoring: 0 points*

Checkup: Practice Problems
Check your understanding of the lesson.
*Duration: 0 hrs 25 mins  Scoring: 0 points*

Quiz: What Is Probability?
Take a quiz to check your understanding of what you have learned.
*Duration: 0 hrs 20 mins  Scoring: 20 points*

Quiz: Sample Space
Take a quiz to check your understanding of what you have learned.
*Duration: 0 hrs 20 mins  Scoring: 20 points*

Quiz: Simple and Compound Events
Take a quiz to check your understanding of what you have learned.
*Duration: 0 hrs 20 mins  Scoring: 20 points*

Study: Organizing What Is Possible
Explore the numbers of possible outcomes from a brown bag containing gum balls of different colors.
*Duration: 0 hrs 35 mins  Scoring: 0 points*
LESSON 2: COUNTING PRINCIPLES

Study: Counting Principles
Learn about counting strategies and the multiplication principle. Practice using tree diagrams and Venn diagrams in probability problems. Learn the definitions for permutation and combination.

Duration: 0 hrs 35 mins
Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Counting Principles
Take a quiz to check your understanding of what you have learned.

Duration: 0 hrs 20 mins
Scoring: 20 points

Quiz: Counting Principles
Take a quiz to check your understanding of what you have learned.

Duration: 0 hrs 20 mins
Scoring: 20 points

LESSON 3: PERMUTATIONS AND COMBINATIONS

Study: Permutations and Combinations
Learn about counting strategies and the multiplication principle. Practice using tree diagrams and Venn diagrams in probability problems. Learn the definitions for permutation and combination.

Duration:
0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Permutations and Combinations
Take a quiz to check your understanding of what you have learned.

Duration: 0
hrs 20 mins Scoring: 20 points

Quiz: Finding Probabilities With Permutations and Combinations
Take a quiz to check your understanding of what you have learned.

Duration: 0 hrs 20 mins Scoring: 20 points
LESSON 4: BASIC RULES OF PROBABILITY

Study: Basic Rules of Probability
Learn four rules of probability, as well as the addition rule for disjoint events and the multiplication rule for independent events.
Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Basic Rules of Probability, Part I
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 5: GEOMETRIC MODELS FOR PROBABILITY

Study: Geometric Models for Probability
Use area models to connect geometry to probability and statistics.
Duration: 0 hrs 50 mins Scoring: 0 points

Checkup: Practice Problems
Complete a set of practice problems to check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Geometric Models for Probability
Take a quiz to assess your understanding of the material.
Duration: 0 hrs 25 mins Scoring: 20 points

LESSON 6: CONDITIONAL PROBABILITY

Study: Conditional Probability
Learn how to identify and solve conditional probability problems using correct notation, formulas, and tables.
Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Complete a set of practice problems to check your understanding of the lesson.
Duration:
Quiz: Conditional Probability
Take a quiz to assess your understanding of the material.
Duration: 0 hrs 20 mins
Scoring: 20 points

Practice: Modeling: A Student Survey
Use your knowledge of conditional probability to analyze the results of a student survey.
Duration: 0 hrs 30 mins Scoring: 20 points

LESSON 7: INDEPENDENCE

Study: Independence
Learn how to show if two events are independent, and solve probability problems for both independent and dependent events using the multiplication rule and tree diagrams.
Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Complete a set of practice problems to check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Independence
Take a quiz to assess your understanding of the material.
Duration: 0 hrs 20 mins Scoring: 20 points

Journal: Smoking and Lung Cancer
Use what you know about conditional probability and independence to critique the reasoning of others.
Duration: 0 hrs 30 mins Scoring: 20 points

LESSON 8: SIMULATIONS

Study: Simulations
Learn how to simulate a random event using random number generators and rows of random digits and use results to estimate probabilities empirically.
Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Complete a set of practice problems to check your understanding of the lesson.
**Quiz: Simulations**
Take a quiz to assess your understanding of the material.
*Duration: 0 hrs 20 mins Scoring: 20 points*

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**LESSON 9: APPLICATIONS OF PROBABILITY WRAP-UP**

**Checkup: Applications of Probability Practice Problems**
Check your understanding of the topics in this unit.
*Duration: 0 hrs 25 mins Scoring: 0 points*

**Review: Applications of Probability**
Prepare for the unit test by reviewing key concepts and skills.
*Duration: 0 hrs 30 mins Scoring: 0 points*

**Test (CS): Applications of Probability**
Take a computer-scored test to assess what you have learned in this unit.
*Duration: 0 hrs 40 mins Scoring: 50 points*

**Test (TS): Applications of Probability**
Take a teacher-scored test to assess what you have learned in this unit.
*Duration: 0 hrs 30 mins Scoring: 50 points*

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**UNIT 8: MATHEMATICS II SEMESTER 1 EXAM**

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**LESSON 1: MATHEMATICS II SEMESTER 1 EXAM**

**Review: Mathematics II Semester 1**
Prepare for the final exam by reviewing key concepts and skills.
*Duration: 0 hrs Scoring: 0 points*

**Exam: Mathematics II Semester 1**
Take a computer-scored exam to demonstrate your mastery of concepts and skills covered in Mathematics II Semester 1.
*Duration: 0 hrs 50 mins Scoring: 200 points*
UNIT 9: PREPARING FOR PROOFS

LESSON 1: INDUCTION: THE SEARCH FOR RULES AND PATTERNS

Study: Induction: The Search for Rules and Patterns
Learn about looking for patterns, making conjectures, cross-referencing to history and science, real-world examples of inductive reasoning, building a triangle, and examples of symmetry.
Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Induction: The Search for Rules and Patterns
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 2: DEDUCTION: MAKING A CASE

Study: Deduction: Making a Case
Learn about the definition of deductive reasoning; postulates and conditional statements; and using deductive reasoning in proofs. Explore a real-world example of deducing that deals with the combination of a lock.
Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Deduction: Making a Case
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 3: THE LOOK AND LANGUAGE OF LOGIC

Study: The Look and Language of Logic
Explore examples of geometric reasoning. Learn about converses, inverses, and contrapositives of conditional statements.
LESSON 4: INTRODUCTION TO PROOFS

Study: Introduction to Proofs
Learn about postulates and axioms, givens, proof by contradiction (indirect proof), theorems and corollaries, and the axiomatic method.

Quiz: Introduction to Proofs
Take a quiz to check your understanding of what you have learned.

LESSON 5: BASIC POSTULATES IN GEOMETRY

Study: Basic Postulates in Geometry
Learn about the relationship of rays, lines, and angles to direction; the definition of a line; notation for rays and lines; building and defining an angle (including its vertex and sides); conventions for naming angles; and straight and zero angles.

Checkup: Practice Problems
Check your understanding of the lesson.

Quiz: Basic Postulates in Geometry
Take a quiz to check your understanding of what you have learned.

LESSON 6: PLANES AND THE SPACE OF GEOMETRY
Study: Planes and the Space of Geometry
Learn about dimensionality, collinear points, two-dimensional objects, the geometric plane, the flat plane, postulate coplanar objects, and three-dimensional objects (solids).
   Duration: 0 hrs 35 mins
   Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.
   Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Planes and the Space of Geometry
Take a quiz to check your understanding of what you have learned.
   Duration: 0 hrs 20 mins Scoring: 20 points

Practice: Modeling: Logo Design
Use your knowledge of location, direction, and angles to model and solve a real-world problem.
   Duration: 0 hrs 30 mins Scoring: 20 points

LESSON 7: INTERSECTING LINES AND PROOFS

Study: Intersecting Lines and Proofs
Learn about intersections that form vertical angles; the vertical angle theorem; perpendicular lines, rays, and segments; distance and length; and perpendicular bisectors.
   Duration: 0 hrs 35 mins
   Scoring: 0 points

Checkup: Practice Problems and Proofs
Check your understanding of the lesson.
   Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Intersecting Lines and Proofs
Take a quiz to check your understanding of what you have learned.
   Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 8: PARALLEL LINES AND PROOFS

Study: Parallel Lines and Proofs
Learn about skew lines, coplanar lines that do not intersect, parallel line notation, transversals and corresponding angles, alternate interior angles, consecutive interior angles, and parallel line theorems.
Checkup: Practice Problems  
Check your understanding of the lesson.  
Duration: 0 hrs 25 mins  Scoring: 0 points

Quiz: Parallel Lines and Proofs  
Take a quiz to check your understanding of what you have learned.  
Duration: 0 hrs 20 mins  Scoring: 20 points

Journal: Consecutive Angle Theorem  
Use what you know about lines and angles to critique the reasoning of others and prove a theorem.  
Duration: 0 hrs 30 mins  Scoring: 20 points

Study: Solving the Mirror Problem  
Learn about applying theorems from this unit to the problem of measuring light reflected off a mirror. Learn about the law of reflection.  
Duration: 0 hrs 35 mins  Scoring: 0 points

LESSON 9: PREPARING FOR PROOFS WRAP-UP

Checkup: Preparing for Proofs Practice Problems  
Check your understanding of the topics in this unit.  
Duration: 0 hrs 25 mins  Scoring: 0 points

Review: Preparing for Proofs  
Get ready for the unit test by reviewing important ideas and skills.  
Duration: 0 hrs 30 mins  Scoring: 0 points

Test (CS): Preparing for Proofs  
Take a computer-scored test to check what you have learned in this unit.  
Duration: 0 hrs 40 mins  Scoring: 50 points

Test (TS): Preparing for Proofs  
Take a teacher-scored test to check what you have learned in this unit.  
Duration: 0 hrs 30 mins  Scoring: 50 points

UNIT 10: TRIANGLES
LESSON 1: WHAT IS A TRIANGLE?

Study: What Is a Triangle?
Learn about the definition and parts of a triangle; opposite and included figures; naming and sorting triangles; equilateral, isosceles, and scalene triangles; and the triangle inequality theorem.

Duration: 0 hrs 35 mins
Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Naming Triangles by Angle Measures
Take a quiz to check your understanding of what you have learned.

Duration: 0 hrs 20 mins Scoring: 20 points

Quiz: Naming Triangles by Side Lengths
Take a quiz to check your understanding of what you have learned.

Duration: 0 hrs 20 mins Scoring: 20 points

Quiz: The Triangle Inequality Theorem
Take a quiz to check your understanding of what you have learned.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 2: THE ANGLES OF A TRIANGLE

Study: The Angles of a Triangle
Explore the angle sum theorem and third angle theorem for triangles. Investigate the relationship between a given triangle's vertex and its exterior and remote interior angles.

Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Angle Theorems
Take a quiz to check your understanding of what you have learned.

Duration: 0 hrs 20 mins Scoring: 20 points

Quiz: Exterior and Remote Interior Angles
Take a quiz to check your understanding of what you have learned.
LESSON 3: CONGRUENCE

Study: Congruence
Learn about congruence, transformations of triangles, corresponding triangles, notation for writing congruence statements, and the CPCTC triangle congruence theorem.

Checkup: Practice Problems
Check your understanding of the lesson.

Quiz: Congruent Triangles
Take a quiz to check your understanding of what you have learned.

Quiz: Properties of Congruence
Take a quiz to check your understanding of what you have learned.

LESSON 4: CONGRUENCE POSTULATES

Study: Congruence Postulates
Learn about postulates including the SSS, SAS, ASA, and AAS theorems.

Checkup: Practice Problems
Check your understanding of the lesson.

Quiz: Using Congruence Postulates
Take a quiz to check your understanding of what you have learned.

Quiz: The AAS Theorem
Take a quiz to check your understanding of what you have learned.
LESSON 5: PROOFS OF CONGRUENCE

Study: Proofs of Congruence
Learn about proving that parts of triangles are congruent by using Thales's method for measuring the distance from ship to shore.
Duration: 0 hrs 35 mins Scoring: 0 points

Quiz: Proofs of Congruence
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

Journal: Proofs of Congruence
Use what you know about congruence of triangles to prove the Perpendicular Bisector Theorem.
Duration: 0 hrs 30 mins Scoring: 20 points

LESSON 6: SIMILAR TRIANGLES

Study: Similar Triangles
Learn about similarity versus congruence, testing for similarity among triangles, proportionality, the definition of similar triangles, and scale factor.
Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Similar Triangles
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins
Scoring: 20 points

LESSON 7: SIMILARITY THEOREMS AND PROPORTIONAL REASONING

Study: Similarity Theorems and Proportional Reasoning
Learn about the ASA similarity postulate, the SSS similarity theorem, and the SAS similarity theorem.
Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

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Lesson 8: Triangle Theorems

Study: Triangle Theorems
Learn and prove the isosceles triangle theorem and its converse. Investigate two corollaries involving angle measures for equilateral triangles. Explore theorems for scalene triangles. Apply what you have learned to solve Thales's problem.
Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Isosceles and Equilateral Triangles
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

Quiz: Scalene Triangles
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins
Scoring: 20 points

Lesson 9: Medians and Altitudes

Study: Medians and Altitudes
Identify and explore medians and altitudes. Discover their relationship to centroids, orthocenters, incenters, and circumcenters.
Duration: 0 hrs 35 mins Scoring: 0 points

Quiz: Medians and Altitudes
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points
LESSON 10: BISECTORS AND MIDSEGMENTS

Study: Bisectors and Midsegments
Identify and explore angle bisectors, perpendicular bisectors, and midpoint bisectors, and lines parallel to one side of a triangle to discover their relationships to circumcenters, incenters, and side lengths.

Duration: 0 hrs 35 mins Scoring: 0 points

Quiz: Bisectors and Midsegments
Take a quiz to check your understanding of what you have learned.

Duration: 0 hrs
20 mins Scoring: 20 points

LESSON 11: TRIANGLES WRAP-UP

Checkup: Triangles Practice Problems
Check your understanding of the topics in this unit.

Duration: 0 hrs 25 mins
Scoring: 0 points

Review: Triangles
Get ready for the unit test by reviewing important ideas and skills.

Duration: 0 hrs 30 mins Scoring: 0 points

Test (CS): Triangles
Take a computer-scored test to check what you have learned in this unit.

Duration: 0 hrs 40 mins
Scoring: 50 points

Test (TS): Triangles
Take a teacher-scored test to check what you have learned in this unit.

Duration: 0 hrs 30 mins
Scoring: 50 points

UNIT 11: RIGHT TRIANGLES AND TRIGONOMETRY

LESSON 1: THE PYTHAGOREAN THEOREM

Study: The Pythagorean Theorem
Learn how the Pythagorean theorem applies only to right triangles and discover one proof of it. Learn about the converse of the Pythagorean theorem, Pythagorean triples, and applying the theorem to the problem of fitting a baseball bat into a rectangular trunk.

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LESSON 2: PROVING CONGRUENCE OF RIGHT TRIANGLES

Study: Proving Congruence of Right Triangles
Learn about the HL, LL, HA, LA, and perpendicular bisector theorems.
Learn about the angle bisector theorem and its converse.
Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Proving Right Triangle Congruence
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

Quiz: Right Triangle Measurements
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 3: SIMILAR RIGHT TRIANGLES

Study: Similar Right Triangles
Explore the properties of similar right triangles. Prove that if an altitude is drawn from the right-angle vertex of a right triangle to its hypotenuse, then three similar triangles are formed. Calculate the missing sides of similar right triangles by using proportions and apply concepts learned to a miniature-golf problem.
Duration: 0 hrs 35 mins
LESSON 4: SPECIAL RIGHT TRIANGLES

Study: Special Right Triangles
Explore 45-45-90 and 30-60-90 triangles as special cases of right triangles and learn how to apply the ratios of their side lengths.
Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: 45-45-90 Right Triangles
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

Quiz: 30-60-90 Right Triangles
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 5: TRIGONOMETRIC RATIOS

Study: Trigonometric Ratios
Learn the definitions of sine, cosine, and tangent. Memorize the shortcut "soh-cah-toa" as a way to relate these ratios. Explore the use of trigonometric ratios in the solution of a real-world problem involving the construction of a cable car.
Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points
Quiz: Trigonometric Ratios
Take a quiz to check your understanding of what you have learned.
*Duration: 0 hrs 20 mins
*Scoring: 20 points

Practice: Modeling: Leaning Towers
Use your knowledge of right triangles, trigonometric ratios, and the Pythagorean Theorem to model and solve a real-world problem.
*Duration: 0 hrs 30 mins Scoring: 20 points

LESSON 6: THE UNIT CIRCLE AND PYTHAGOREAN IDENTITIES

Study: The Unit Circle and Pythagorean Identities
Learn the six trigonometric ratios and how the unit circle defines them.
*Duration: 0 hrs 35 mins

Study: Pythagorean Theorem
Review the Pythagorean theorem.
*Duration: 0 hrs 35 mins

Checkup: Lessons Learned
Complete a set of practice problems on trigonometric functions and the unit circle.
*Duration:
0 hrs 25 mins

Quiz: Trigonometric Functions and the Unit Circle
Take a quiz to assess your understanding of the material.
*Duration:
0 hrs 20 mins Scoring: 20 points

LESSON 7: RIGHT TRIANGLES AND TRIGONOMETRY WRAP-UP

Checkup: Right Triangles and Trigonometry Practice Problems
Check your understanding of the topics in this unit.

*Duration: 0 hrs 25 mins Scoring: 0 points

Review: Right Triangles and Trigonometry
Get ready for the unit test by reviewing important ideas and skills.
*Duration:
0 hrs 30 mins Scoring: 0 points

Test (CS): Right Triangles and Trigonometry
Take a computer-scored test to check what you have learned in this unit.

*Duration: 0 hrs 40 mins Scoring: 50 points*

**Test (TS): Right Triangles and Trigonometry**
Take a teacher-scored test to assess what you have learned in this unit.

*Duration: 0 hrs 30 mins Scoring: 50 points*

**UNIT 12: QUADRILATERALS AND OTHER POLYGONS**

**LESSON 1: ANGLE SUMS OF A POLYGON AND PROOFS**

**Study: Angle Sums of a Polygon and Proofs**
Learn about the diagonal of a polygon, the formula for the sum of the measures of a polygon's interior angles and exterior angles, and a theorem for the sum of their measures.

*Duration: 0 hrs 35 mins Scoring: 0 points*

**Checkup: Practice Problems**
Check your understanding of the lesson.

*Duration: 0 hrs 25 mins Scoring: 0 points*

**Quiz: Angle Sums of a Polygon and Proofs**
Take a quiz to check your understanding of what you have learned.

*Duration: 0 hrs 20 mins Scoring: 20 points*

**LESSON 2: PARALLELOGRAMS AND PROOFS**

**Study: Parallelograms and Proofs**
Learn about the definition of a parallelogram, properties and theorems of parallelograms, consecutive angle pairs, and diagonals.

*Duration: 0 hrs 35 mins Scoring: 0 points*

**Checkup: Practice Problems**
Check your understanding of the lesson.

*Duration: 0 hrs 25 mins Scoring: 0 points*

**Quiz: Parallelograms and Proofs**
Take a quiz to check your understanding of what you have learned.

*Duration: 0 hrs 20 mins Scoring: 20 points*
LESSON 3: TESTS FOR PARALLELOGRAMS

Study: Tests for Parallelograms
Explore parallelogram theorems involving opposite side lengths, opposite and consecutive angle measures, and bisecting diagonals. Then work through a sample proof.

Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Tests for Parallelograms
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

Practice: Modeling: Finding Parallelograms
Use your knowledge of quadrilaterals to model and solve a real-world problem.
Duration: 0 hrs 30 mins Scoring: 20 points

LESSON 4: RECTANGLES

Study: Rectangles
Learn about the definition of a rectangle, congruent diagonal theorems, and right angle theorems. Explore a sample problem about using the congruent diagonal theorem to prove that a window is rectangular.

Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Rectangles
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 5: RHOMBI AND SQUARES

Study: Rhombi and Squares
Identify the properties and definitions of a rhombus and a square. Prove that the diagonals
of a rhombus are perpendicular. Investigate how diagonals of a rhombus bisect opposite vertices. Apply the properties of rhombi and squares to find missing side lengths, diagonal lengths, and angle measures.

Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Rhombi and Squares
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins
Scoring: 20 points

LESSON 6: TRAPEZIODS

Study: Trapezoids
Learn the definition of a trapezoid and identify its parts. Explore how base angles and diagonals of an isosceles trapezoid are congruent. Investigate the medians of a trapezoid. Apply the properties of trapezoids and isosceles trapezoids to find missing side lengths and median lengths.
Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Trapezoids
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

Journal: Trapezoids
Use what you know about triangles and parallelograms to solve a real-world problem.
Duration: 0 hrs 30 mins Scoring: 20 points

LESSON 7: QUADRILATERALS AND OTHER POLYGONS WRAP-UP

Checkup: Quadrilaterals and Other Polygons Practice Problems
Check your understanding of the topics in this unit.
Duration: 0 hrs 25 mins Scoring: 0 points

Review: Quadrilaterals and Other Polygons
Get ready for the unit test by reviewing important ideas and skills.

*Duration: 0 hrs 30 mins Scoring: 0 points*

**Test (CS): Quadrilaterals and Other Polygons**
Take a computer-scored test to check what you have learned in this unit.

*Duration: 0 hrs 40 mins Scoring: 50 points*

**Test (TS): Quadrilaterals and Other Polygons**
Take a teacher-scored test to check what you have learned in this unit.

*Duration: 0 hrs 30 mins Scoring: 50 points*

**UNIT 13: CIRCLES WITHOUT COORDINATES**

**LESSON 1: WHAT IS A CIRCLE?**

**Study: What Is a Circle?**
Learn about the definition of a circle and about its center, radius, and circumference.

*Duration: 0 hrs 35 mins Scoring: 0 points*

**Checkup: Practice Problems**
Check your understanding of the lesson.

*Duration: 0 hrs 25 mins Scoring: 0 points*

**Quiz: What Is a Circle?**
Take a quiz to check your understanding of what you have learned.

*Duration: 0 hrs 20 mins Scoring: 20 points*

**LESSON 2: CHORDS**

**Study: Chords**
Investigate the properties and definitions of chords and diameters. Discover that two chords are congruent if they are the same distance from the center of the circle. Prove that the radius bisects a chord if it is perpendicular to the chord.

*Duration: 0 hrs 35 mins Scoring: 0 points*

**Checkup: Practice Problems**
Check your understanding of the lesson.

*Duration: 0 hrs 25 mins Scoring: 0 points*
Quiz: Congruent Chords
Take a quiz to check your understanding of what you have learned.
*Duration: 0 hrs 20 mins*
*Scoring: 20 points*

Quiz: Chords and Perpendicular Radii
Take a quiz to check your understanding of what you have learned.
*Duration: 0 hrs 20 mins Scoring: 20 points*

Quiz: Diameter of a Circle
Take a quiz to check your understanding of what you have learned.
*Duration: 0 hrs 20 mins Scoring: 20 points*

LESSON 3: ARCS

Study: Arcs
Learn the definitions of arc, endpoint, central angle, and intercept. Learn about minor and major arcs and semicircles, arc notation, the measure of minor and major arcs, and the arc congruence and congruent chord theorems.

*Duration: 0 hrs 35 mins Scoring: 0 points*

Checkup: Practice Problems
Check your understanding of the lesson.
*Duration: 0 hrs 25 mins Scoring: 0 points*

Quiz: Arc Types and Measure
Take a quiz to check your understanding of what you have learned.
*Duration: 0 hrs 20 mins Scoring: 20 points*

LESSON 4: CHORD AND ARC RELATIONSHIPS

Study: Chord and Arc Relationships
Learn the definitions of arc, endpoint, central angle, and intercept. Learn about minor and major arcs and semicircles, arc notation, the measure of minor and major arcs, and the arc congruence and congruent chord theorems.

*Duration: 0 hrs 35 mins Scoring: 0 points*

Checkup: Practice Problems
Check your understanding of the lesson.
*Duration: 0 hrs 25 mins Scoring: 0 points*
Quiz: Congruent Chords and Circle Angle Measure
Take a quiz to check your understanding of what you have learned.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 5: CIRCLES, ANGLES, AND PROOFS

Study: Circles, Angles, and Proofs
Learn the definition of an inscribed angle. Experiment with inscribed angles and their intercepted arcs. Discover and prove that an inscribed angle is half the measure of its intercepted arc. Discover and prove the intersecting chord theorem.

Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Inscribed Angles
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins
Scoring: 20 points

Quiz: Intersecting Chord Theorem
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 6: SECANTS, TANGENTS, AND PROOFS

Study: Secants, Tangents, and Proofs
Learn about the definition of secant and about secant-secant angle, its theorem, and proving the theorem. Learn about tangent line, point of tangency and tangent segments, tangents perpendicular to a circle's radius, a tangent-tangent angle and its theorem, and a tangent-chord angle and its theorem. Explore a sample proof.

Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Secant-Secant Angles
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points
Quiz: Tangent-Chord Angles
Take a quiz to check your understanding of what you have learned.

Duration: 0 hrs 20 mins Scoring: 20 points

Quiz: Tangent-Tangent Angles and Their Intercepted Arcs
Take a quiz to check your understanding of what you have learned.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 7: CIRCUMFERENCE AND ARC LENGTH

Study: Circumference and Arc Length
Learn about the irrational number pi and the formula for finding the circumference of a circle. Apply circumference to a real-world problem about how to build a bridge that’s tall enough for boats to travel beneath it. Learn about the degree measure of an arc and arc length. Derive the formula for arc length.

Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Circumference of a Circle
Take a quiz to check your understanding of what you have learned.

Duration: 0 hrs 20 mins Scoring: 20 points

Quiz: Arc Length
Take a quiz to check your understanding of what you have learned.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 8: AREA AND SECTORS

Study: Area and Sectors
Learn about the formula for the area of a circle. Explore a case study comparing the cost per square inch of small and large pizzas. Learn about sectors and the area of a sector.

Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points
LESSON 9: CIRCLES AND TRIANGLES

Study: Circles and Triangles
Learn about inscribed objects; circumscribed objects; and the definitions of incenter and circumcenter.

Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Circles and Triangles
Take a quiz to check your understanding of what you have learned.

Duration: 0 hrs 20 mins
Scoring: 20 points

Journal: Similar Circles
A peer uses dilation to prove that two circles are similar. Now you prove it using inscribed triangles.

Duration: 0 hrs 30 mins Scoring: 20 points

LESSON 10: CIRCLES AND POLYGONS

Study: Circles and Polygons
Learn about the theorems of a quadrilateral inscribed in a circle and of a parallelogram inscribed in a circle.

Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
LESSON 11: CIRCLES WITHOUT COORDINATES WRAP-UP

Checkup: Circles Without Coordinates Practice Problems
Check your understanding of the topics in this unit.

Duration: 0 hrs 25 mins Scoring: 0 points

Review: Circles Without Coordinates
Get ready for the unit test by reviewing important ideas and skills.

Duration: 0 hrs 30 mins Scoring: 0 points

Test (CS): Circles Without Coordinates
Take a computer-scored test to check what you have learned in this unit.

Duration: 0 hrs 40 mins Scoring: 50 points

Test (TS): Circles Without Coordinates
Take a teacher-scored test to check what you have learned in this unit.

Duration: 0 hrs 30 mins Scoring: 50 points

UNIT 14: CONIC SECTIONS

LESSON 1: FROM LINES TO CONIC SECTIONS

Study: From Lines to Conic Sections
Learn about four kinds of conic sections, as well as the definitions of right circular cone, nappe, vertex, conic section, and cross section.

Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points
LESSON 2: GEOMETRY OF CONIC SECTIONS

Study: Geometry of Conic Sections
Learn about parts and geometric properties of circles, ellipses, hyperbolas, and parabolas.

Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Geometry of Circles and Ellipses
Take a quiz to check your understanding of what you have learned.

Duration: 0 hrs 20 mins Scoring: 20 points

Quiz: Geometry of Hyperbolas and Parabolas
Take a quiz to check your understanding of what you have learned.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 3: MIDPOINT FORMULA

Study: Midpoint Formula
Learn about the midpoints of horizontal, vertical, and diagonal line segments and about the midpoint formula. Complete a sample problem.

Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Midpoint Formula
LESSON 4: THE DISTANCE FORMULA

Study: The Distance Formula
Derive the distance formula from the Pythagorean theorem. Use this formula to calculate the distance between any two points. Apply the distance formula in a real-world problem that involves locating the shortest route on a nautical map.

Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: The Distance Formula
Take a quiz to check your understanding of what you have learned.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 5: CIRCLES WITH COORDINATES AND PROOFS

Study: Circles with Coordinates and Proofs
Use algebra to find an equation whose solution set is a circle. Learn about the standard equation for circles that are not centered at the origin.

Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Circles Centered at the Origin
Take a quiz to check your understanding of what you have learned.

Duration: 0 hrs 20 mins Scoring: 20 points

Quiz: Circles Not Centered at the Origin
Take a quiz to check your understanding of what you have learned.

Duration: 0 hrs 20 mins Scoring: 20 points

Journal: Point on a Circle
Use what you know about equations of circles to prove whether or not a point is on a circle.
LESSON 6: PARABOLAS

Study: Parabolas
Learn about finding a parabola's equation from its graph; the effect of the squared variable's coefficient on the parabola's orientation and shape; equations of parabolas with vertices at points other than the origin; vertex form and standard form of an equation for a parabola; and converting between vertex form and standard form.

Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Parabolas with Vertices at the Origin
Take a quiz to check your understanding of what you have learned.

Duration: 0 hrs 20 mins Scoring: 20 points

Quiz: Parabolas with Vertices Not at the Origin
Take a quiz to check your understanding of what you have learned.

Duration: 0 hrs 20 mins Scoring: 20 points

Quiz: Converting Parabolic Equations
Take a quiz to check your understanding of what you have learned.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 7: LOCUS OF POINTS

Study: Locus of Points
Learn about defining objects in terms of points and given distances. Explore examples of a parabola and bisecting angles.

Duration: 0 hrs 35 mins Scoring: 0 points

Quiz: Locus of Points
Take a quiz to check your understanding of what you have learned.

Duration: 0 hrs 20 mins Scoring: 20 points

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Practice: Modeling: Wildlife Sanctuary
Use what you know about locus of points to solve a real world problem.

Duration: 0 hrs 30 mins Scoring: 20 points

LESSON 8: CONIC SECTIONS WRAP-UP

Checkup: Conic Sections Practice Problems
Check your understanding of the topics in this unit.

Duration: 0 hrs 25 mins Scoring: 0 points

Review: Conic Sections
Get ready for the unit test by reviewing important ideas and skills.

Duration: 0 hrs 30 mins Scoring: 0 points

Test (CS): Conic Sections
Take a computer-scored test to check what you have learned in this unit.

Duration: 0 hrs 40 mins Scoring: 50 points

Test (TS): Conic Sections
Take a teacher-scored test to check what you have learned in this unit.

Duration: 0 hrs 30 mins Scoring: 50 points

UNIT 15: THREE-DIMENSIONAL SOLIDS

LESSON 1: THREE DIMENSIONS

Study: Three Dimensions
Learn about measuring three-dimensional figures.

Duration: 0 hrs 35 mins Scoring: 0 points

Quiz: Three Dimensions
Take a quiz to check your understanding of what you have learned.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 2: WHAT IS A POLYHEDRON?
Study: What Is a Polyhedron?
Learn about the definition and elements of a polyhedron, prisms and their components, triangular and rectangular prisms, cubes, and regular and irregular pyramids.
Duration: 0 hrs 35 mins Scoring: 0 points

Quiz: What Is a Polyhedron?
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 3: CYLINDERS AND CONES

Study: Cylinders and Cones
Learn about the definition, components, and properties of a cylinder; the definition and components of a cone; and the similarities between cones and pyramids.
Duration: 0 hrs 35 mins Scoring: 0 points

Quiz: Cylinders and Cones
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins
Scoring: 20 points

LESSON 4: PLATONIC SOLIDS

Study: Platonic Solids
Learn about polygonal numbers, regularity of Platonic solids, and building your own Platonic solids.
Duration: 0 hrs 35 mins Scoring: 0 points

Quiz: Platonic Solids
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins
Scoring: 20 points

Practice: Modeling: Solids
Practice with a real-world solid modeling application.
Duration: 0 hrs 30 mins Scoring: 20 points

LESSON 5: SURFACE AREA

Study: Surface Area
Learn about perimeter and surface area; base and lateral area; slant height versus altitude; and the formulas for surface area of a right prism, an oblique prism, a regular pyramid, an oblique cylinder, a right cone, and an oblique cone. Explore sample problems dealing with these subjects.

Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Surface Area of Regular Prisms and Pyramids
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

Quiz: Surface Area of Right Cylinders and Cones
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 6: VOLUME

Study: Volume
Learn about area and volume, the formulas for volume of a cube and a rectangular prism, and Bonaventura Francesco Cavalieri’s principle. Learn about the formulas for volume of a cylinder, a pyramid, and a cone; explore sample problems dealing with these formulas. Learn about cross-sectional area.
Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Volume of Prisms, Cylinders, and Cubes
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

Quiz: Volume of Cones, Cylinders, and Pyramids
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

Journal: Volume
Think about and discuss how changing one dimension of a given shape changes its volume and surface area.
Duration: 0 hrs 30 mins Scoring: 20 points

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LESSON 7: SPHERES

Study: Spheres
Learn about the definition of a sphere; the formulas for surface area and volume of a sphere; comparing the surface area and volume of a sphere, cube, cylinder, and cone; and using Cavalieri's principle to derive the formula for volume of a sphere.

Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Spheres
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 8: SIMILAR SOLIDS

Study: Similar Solids
Learn about similar prisms, pyramids, cylinders, cones, and spheres; the constant ratio between corresponding parts of similar solids; and the ratio of volumes of similar solids.

Duration: 0 hrs 35 mins Scoring: 0 points

Checkup: Practice Problems
Check your understanding of the lesson.
Duration: 0 hrs 25 mins Scoring: 0 points

Quiz: Similar Solids
Take a quiz to check your understanding of what you have learned.
Duration: 0 hrs 20 mins
Scoring: 20 points

LESSON 9: PERFORMANCE TASK: THREE-DIMENSIONAL SOLIDS

Study: Geodesic Domes
Use your knowledge of three-dimensional solids to solve a geodesic dome problem.

Duration: 0 hrs 35 mins Scoring: 0 points

Project: Performance Task: The Subway Stop
Use what you know about three-dimensional solids to solve a real-world problem.
LESSON 10: THREE-DIMENSIONAL SOLIDS WRAP-UP

Checkup: Three-Dimensional Solids Practice Problems
Check your understanding of the topics in this unit.
Duration: 0 hrs 25 mins Scoring: 0 points

Review: Three-Dimensional Solids
Get ready for the unit test by reviewing important ideas and skills.
Duration: 0 hrs 30 mins Scoring: 0 points

Test (CS): Three-Dimensional Solids
Take a computer-scored test to check what you have learned in this unit.
Duration: 0 hrs 40 mins Scoring: 50 points

Test (TS): Three-Dimensional Solids
Take a teacher-scored test to check what you have learned in this unit.
Duration: 0 hrs 30 mins Scoring: 50 points

UNIT 16: MATHEMATICS II SEMESTER 2 EXAM

LESSON 1: MATHEMATICS II SEMESTER 2 EXAM

Review: Mathematics II Semester 2
Prepare for the final exam by reviewing key concepts and skills.
Duration: 0 hrs
Scoring: 0 points

Exam: Mathematics II Semester 2
Take a computer-scored exam to demonstrate your mastery of concepts and skills covered in Math II Semester 2.
Duration: 0 hrs 50 mins Scoring: 200 points