

Mathematics II provides a second-year integrated math curriculum that combines material traditionally covered in high school algebra, geometry, and precalculus courses. Mathematics II develops rigorous mathematical skills while emphasizing real-world applicability.

Course topics include complex numbers, step and piecewise functions, exponential functions, quadratic functions, inverse functions, right triangles, trigonometric functions, and circles, as well as data analysis and modeling.

Carefully paced, guided instruction is accompanied by practice that is engaging and accessible. Interactive animations allow students to approach and explore topics through real-world situations, helping them to gain an intuitive understanding while learning at the appropriate depth and rigor of a standards-based curriculum. Formative assessments help students to understand areas of weakness and improve performance, while summative assessments chart progress and skill development. Throughout the course, students will develop general strategies to hone their problem-solving skills.

The content is based on the Georgia Performance Standards and Instructional Frameworks in Mathematics, as well as the National Council of Teachers of Mathematics (NCTM) Principles and Standards for School Mathematics.

Length: Two Semesters

UNIT 1: WHAT IS A FUNCTION?

LESSON 1: WHEN ONE THING DEPENDS ON ANOTHER

Study: When One Thing Depends on Another

Learn the definition and explore examples of functions as quantities that depend on other quantities.

Duration: 0 hr 40 min Scoring: 0 points

Checkout: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: When One Thing Depends on Another

Take a quiz to assess your understanding of the material.

Duration: 0 hr

25 min Scoring: 28 points

LESSON 2: FUNCTION NOTATION

Study: Function Notation

Learn about and explore examples of function notation.

Duration: 0 hr 40 min Scoring: 0

points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Translating to Function Notation

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 16 points

Quiz: Function Notation for Specific Amounts

Take a quiz to assess your understanding of the material.

Duration: 0 hr

25 min Scoring: 16 points

Quiz: Naming Functions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 16

points

LESSON 3: INPUT-OUTPUT MACHINES

Study: Input-Output Machines

Learn about the domain and range of functions, input-output diagrams using rules for functions, and mathematical expressions in functions.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Using Functions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 28

points

LESSON 4: WRAP-UP

Practice: Assignment

Submit your work for a set of 20 practice problems.

Duration: 1 hr Scoring: 100 points

Review: Review Exercise

Take part in interactive games to review unit material in preparation for upcoming assessments.

Duration: 1 hr Scoring: 0 points

Discuss: Real-World Input/Output Machines

Take part in a three- to five-question discussion about applying methods learned in this unit.

Duration: 0 hr 20 min Scoring: 30 points

Test (CS): What Is a Function?

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hr

40 min Scoring: 45 points

Test (TS): What Is a Function?

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hr

30 min Scoring: 50 points

LESSON 5: DIAGNOSTIC

Diagnostic: What Is a Function?

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hr 40 min Scoring: 15 points

UNIT 2: SOLVING PROBLEMS WITH FUNCTIONS

LESSON 1: FUNCTIONS AND TABLES

Study: Functions and Tables

Learn about using input-output tables to define or describe functions, estimating values of functions, and finding a function's rule from a table.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Functions and Tables

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 20

points

LESSON 2: FUNCTIONS AND GRAPHS

Study: Functions and Graphs

Learn about using bar graphs, pie charts, and line graphs to describe or define functions.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Functions and Graphs

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring:

18 points

LESSON 3: FUNCTIONS AND FORMULAS

Study: Functions and Formulas

Learn about using algebraic rules and formulas to describe and define functions.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Functions and Formulas

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring:

16 points

Study: Solving the Profit Problem

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In a real-world application, use tables, rules, and the method of estimating values to write an equation that expresses a function. Solve the equation and express the output in a line graph.

Duration: 0 hr 40 min
Scoring: 0 points

LESSON 4: WRAP-UP

Practice: Assignment

Submit your work for a set of 20 practice problems.
Duration: 1 hr Scoring: 100 points

Review: Review Exercise

Take part in interactive games to review unit material in preparation for upcoming assessments.
Duration: 1 hr Scoring: 0 points

Discuss: Presenting Info the Best Way Possible

Take part in a three- to five-question discussion about applying methods learned in this unit.
Duration: 0 hr 20 min Scoring: 30 points

Test (CS): Solving Problems with Functions

Take a computer-scored test to assess what you have learned in this unit.
Duration: 0 hr 40 min Scoring: 51 points

Test (TS): Solving Problems with Functions

Take a teacher-scored test to assess what you have learned in this unit.
Duration: 0 hr 30 min Scoring: 50 points

LESSON 5: DIAGNOSTIC

Diagnostic: Solving Problems with Functions

Take a diagnostic unit test that will generate a study plan based on your responses.
Duration: 0 hr 40 min Scoring: 17 points

UNIT 3: FUNCTIONS RELATIONS & THEIR GRAPHS

LESSON 1: HOW MANY OUTPUTS?

Study: How Many Outputs?

Review functions and what makes them special, independent and dependent variables, inputs and outputs, and examples of relationships that might not be functional.

Duration: 0 hr 40 min Scoring: 0 points

Quiz: How Many Outputs?

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 22 points

LESSON 2: FUNCTIONS AND RELATIONS**Study: Functions and Relations**

Learn about using mapping diagrams, ordered pairs on diagrams, the difference between mapping diagrams of functions and relations, the vertical line test, and equations of functions and relations.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

*Duration: 0 hr 30 min
Scoring: 0 points*

Quiz: Mapping Functions and Relations

Take a quiz to assess your understanding of the material.

*Duration: 0 hr 25 min
Scoring: 16 points*

Quiz: Identifying Functions and Relations

Take a quiz to assess your understanding of the material.

*Duration: 0 hr 25 min
Scoring: 16 points*

LESSON 3: DOMAIN AND RANGE**Study: Domain and Range**

Learn about domains and range on a mapping diagram, estimating domain and range of functions, and calculating the domain of a function from an equation.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

*Duration: 0 hr 30 min
Scoring: 0 points*

Quiz: Domain and Range

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 22

points

LESSON 4: GRAPHING FUNCTIONS

Study: Testing and Special 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 hr 40 min Scoring: 0 points

Checkup: Lessons Learned

Complete a set of practice problems on graphing functions.

Duration: 0 hr 50 min Scoring:

0 points

Quiz: Graphing Functions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 20

points

LESSON 5: COMPOSITION OF FUNCTIONS

Study: Composition of Functions

Explore and evaluate the composition of functions by tracking what happens to the output of one function as it becomes the input of another. Write the names of compositions in function notation.

Duration: 0

hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Composition of Functions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 20 points

LESSON 6: SOLVING PROBLEMS WITH COMPOSITION

Study: Solving Problems with Composition

Explore a case study of the submersion of a submarine to demonstrate composite functions.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Solving Problems with Composition

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25

min Scoring: 16 points

LESSON 7: WRAP-UP

Practice: Assignment

Submit your work for a set of 20 practice problems.

Duration: 1 hr Scoring: 100 points

Review: Review Exercises

Take part in interactive games to review unit material in preparation for upcoming assessments.

Duration: 1 hr Scoring: 0 points

Discuss: Real-World Input-Output Machines

Take part in a three- to five-question discussion about applying methods learned in this unit.

Duration: 0 hr 20 min Scoring: 30 points

Test (CS): Functions Relations & Their Graphs

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hr 40 min Scoring: 66 points

Test (TS): Functions Relations & Their Graphs

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hr 30 min Scoring: 50 points

LESSON 8: DIAGNOSTIC

Diagnostic: Functions Relations & Their Graphs

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Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hr 40 min Scoring: 22 points

UNIT 4: QUADRATIC FUNCTIONS

LESSON 1: PARABOLAS

Study: Parabolas

Learn about finding a parabola's equation from its graph; equations for a parabola with its vertex at the origin that opens up/down or left/right; the effect of the coefficient of a squared variable on which way the parabola opens and on its 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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Parabolas with Vertices at the Origin

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25

min Scoring: 18 points

Quiz: Parabolas with Vertices Not at the Origin

Take a quiz to assess your understanding of the material.

Duration: 0

hr 25 min Scoring: 20 points

Quiz: Converting Parabolic Equations

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 16 points

LESSON 2: FACTORING x^2+bx+c

Study: Factoring x^2+bx+c

Learn about factoring quadratic trinomials with leading coefficients of 1; rules for finding the constant term and coefficient of the x-term; using a table to factor trinomials; and diagramming signs while factoring trinomials.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Binomial Factors of Trinomials

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 30 points

Quiz: Factoring Trinomials

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 30

points

LESSON 3: FACTORING AX^2+BX+C

Study: Factoring ax^2+bx+c

Learn about factoring trinomials with leading coefficients other than 1; factoring out a leading coefficient of -1; how values of factors relate to values of a trinomial; finding factor pairs of leading coefficients and constant terms; and finding signs in factors of trinomials with a leading coefficient different from 1.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Factoring Trinomials (Basic)

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 30 points

Quiz: Factoring Trinomials (Advanced)

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 30 points

LESSON 4: SPECIAL CASES

Study: Special Cases

Identify and factor differences of squares and perfect-square trinomials.

Duration: 0 hr 40 min

Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Factoring a Difference of Squares

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25

min Scoring: 30 points

Quiz: Factoring Perfect Square Trinomials

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25

min Scoring: 20 points

LESSON 5: SOLVING QUADRATIC EQUATIONS**Study: Solving Quadratic Equations**

Learn about solving quadratic equations using factoring and the zero product rule, manipulating a quadratic equation into standard form, and solving quadratic equations with perfect-square trinomials.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Factoring with the Zero Product Rule

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25

min Scoring: 28 points

Quiz: Converting Quadratics to Standard Form

Take a quiz to assess your understanding of the material.

Duration: 0

hr 25 min Scoring: 28 points

Quiz: Quadratics with Perfect Square Trinomials

Take a quiz to assess your understanding of the material.

Duration: 0

hr 25 min Scoring: 16 points

LESSON 6: COMPLETING THE SQUARE

Study: Completing the Square

Learn the "Completing the Square" method of solving quadratic equations. Practice adding a strategic number to both sides of an equation to make one side a perfect-square trinomial. Then solve the equation by taking the square root of both sides and simplifying. Use Algebra Tiles to determine the number needed to complete the square.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Completing the Square

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring:

24 points

Quiz: Completing the Square (Advanced)

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25

min Scoring: 24 points

LESSON 7: THE QUADRATIC FORMULA

Study: The Quadratic Formula

Learn about types of equations that can be solved with the quadratic formula; complex numbers; discriminants; and finding roots (including complex roots) using the quadratic formula.

Duration: 0 hr 40 min

Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Complex Numbers and Discriminants

Take a quiz to assess your understanding of the material.

Duration: 0 hr

25 min Scoring: 28 points

Quiz: The Quadratic Formula

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring:

30 points

LESSON 8: GRAPHS OF QUADRATIC FUNCTIONS

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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Graphs of Quadratic Functions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 30 points

Quiz: Working with the Discriminant

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 20 points

LESSON 9: IMAGINARY NUMBERS

Study: Imaginary Numbers

Learn about imaginary and complex numbers; perform basic arithmetic operations on complex numbers; and solve equations with imaginary and complex numbers.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Imaginary Numbers

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 16

points

Quiz: Operations on Complex Numbers

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25

min Scoring: 30 points

LESSON 10: WRAP-UP

Practice: Assignment

Submit your work for a set of 20 practice problems.

Duration: 1 hr Scoring: 100 points

Review: Review Exercises

Take part in interactive games to review unit material in preparation for upcoming assessments.

Duration: 1 hr Scoring: 0 points

Discuss: Getting to the Root of the Problem

Take part in a discussion about applying methods learned in this unit.

Duration: 0 hr 20 min Scoring: 30 points

Test (CS): Quadratic Functions

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0

hr 40 min Scoring: 60 points

Test (TS): Quadratic Functions

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hr

30 min Scoring: 50 points

LESSON 11: DIAGNOSTIC

Diagnostic: Quadratic Functions

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hr 40 min Scoring: 20 points

UNIT 5: UNDOING FUNCTIONS AND MOVING THEM AROUND

LESSON 1: INVERSES

Study: Inverses

Learn about undoing functions, mapping diagrams of inverse functions, and finding the equation for an inverse function.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Inverses with Variables x and y

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 16 points

Quiz: Inverses with Other Variables

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 16 points

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 (x, y) 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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Graphs of Inverses

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 18

points

LESSON 3: 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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Shifting Functions Vertically

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 18 points

Quiz: Shifting Functions Horizontally

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 16 points

Quiz: Shifting Functions Vertically and Horizontally

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 18 points

LESSON 4: 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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Stretching Functions Vertically

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 16 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 hr 40 min Scoring: 0 points

LESSON 5: WRAP-UP

Practice: Assignment

Submit your work for a set of 20 practice problems.

Duration: 1 hr Scoring: 100 points

Review: Review Exercise

Take part in interactive games to review unit material in preparation for upcoming assessments.

Duration: 1 hr Scoring: 0 points

Discuss: The Power of Undoing or Shifting Functions

Take part in a three- to five-question discussion about applying methods learned in this unit.

Duration: 0 hr 20 min Scoring: 30 points

Test (CS): Undoing Functions and Moving Them Around

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hr 40 min Scoring: 45 points

Test (TS): Undoing Functions and Moving Them Around

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hr 30 min Scoring: 50 points

LESSON 6: DIAGNOSTIC**Diagnostic: Undoing Functions and Moving Them Around**

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hr 40 min Scoring: 15 points

UNIT 6: MATH II SEMESTER 1 WRAP-UP

LESSON 1: MATH II SEMESTER 1**Review: Math II Semester 1**

Prepare for the semester exam by reviewing key concepts covered in Math II Semester 1.

Duration: 1 hr Scoring: 0 points

Exam: Math II Semester 1

Duration: 0 hr 50 min Scoring: 200 points

UNIT 7: EXPONENTS & THEIR GRAPHS

LESSON 1: 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 hr

40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Evaluating Exponential Functions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25

min Scoring: 30 points

Quiz: Calculating Exponential Growth

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 28 points

LESSON 2: EXAMPLES AND APPLICATIONS OF EXPONENTIAL FUNCTIONS

Study: Examples and Applications of Exponential Functions

Explore case studies in exponential growth and decay and logarithmic growth.

Duration: 0 hr 40 min Scoring: 0 points

LESSON 3: 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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Graphs of Exponential Functions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 30 points

LESSON 4: PROPERTIES OF EXPONENTS

Study: Properties of Exponents

Review product quotient and power laws of exponents; rewriting the log of a product as the sum of two logs; rewriting the log of a quotient as the difference of two logs; simplifying the log of a power; and using the change-of-base formula to rewrite logarithms.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Equivalent Exponential Expressions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25

min Scoring: 16 points

LESSON 5: SOLVING EXPONENTIAL EQUATIONS

Study: Solving Exponential Equations

Learn about using ordinary algebra and the properties of logarithms to solve exponential equations. Answer questions inspired by the classic chessboard problem.

Duration: 0 hr 40 min Scoring: 0

points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Solving Exponential Equations

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 30 points

LESSON 6: WRAP-UP

Practice: Assignment

Submit your work for a set of 20 practice problems.

Duration: 1 hr Scoring: 100 points

Review: Review Exercises

Take part in interactive games to review unit material in preparation for upcoming assessments.

Duration: 1 hr Scoring: 0 points

Discuss: The Consequences of Exponential Growth

Take part in a three- to seven-question discussion about applying methods learned in this unit.

Duration: 0 hr 20 min Scoring: 30 points

Test (CS): Exponents & Their Graphs

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hr 40 min Scoring: 60 points

Test (TS): Exponents & Their Graphs

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hr 30 min Scoring: 50 points

LESSON 7: DIAGNOSTIC**Diagnostic: Exponents & Their Graphs**

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hr 40 min Scoring: 33 points

UNIT 8: SEQUENCES AND SERIES

LESSON 1: FINDING PATTERNS**Study: Finding Patterns**

Learn about image, letter, and number patterns and about finding the next term.

Duration: 0 hr

40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Finding Patterns

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 28 points

Quiz: Letter and Number Patterns

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 24 points

LESSON 2: ARITHMETIC SEQUENCES**Study: Arithmetic Sequences**

Learn about arithmetic sequences, common difference, explicit and recursive formulas, and finding the next term in a sequence.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min Scoring: 0 points

Quiz: Arithmetic Sequences

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 24 points

Quiz: Rules For Arithmetic Sequences

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 28 points

LESSON 3: GEOMETRIC SEQUENCES**Study: Geometric Sequences**

Explore geometric sequences as sets of numbers in which the ratio between any two consecutive numbers is a constant. Compare how the recursive formula and the explicit formula allow you to find the value of any term in a geometric sequence. Explore the graphs of geometric sequences as exponential curves.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Geometric Sequences

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring:

26 points

Quiz: Formulas for Geometric Sequences

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25

min Scoring: 24 points

LESSON 4: APPLICATIONS OF NUMBER SEQUENCES

Study: Applications of Number Sequences

Learn about applications and models of arithmetic, geometric, and special sequences.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Applications of Arithmetic Sequences

Take a quiz to assess your understanding of the material.

Duration: 0 hr

25 min Scoring: 24 points

Quiz: Applications of Geometric Sequences

Take a quiz to assess your understanding of the material.

Duration: 0 hr

25 min Scoring: 28 points

Quiz: Applications of Other Sequences

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 20 points

LESSON 5: NUMBER SERIES

Study: Number Series

Explore arithmetic and geometric number series.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Arithmetic Series

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 28

points

Quiz: Geometric Series

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 28

points

LESSON 6: WRAP-UP**Practice: Assignment**

Submit your work for a set of 20 practice problems.

Duration: 1 hr Scoring: 100 points

Review: Review Exercises

Take part in interactive games to review unit material in preparation for upcoming assessments.

Duration: 1 hr Scoring: 0 points

Discuss: Examining Sequences and Series

Take part in a three- to seven-question discussion about applying methods learned in this unit.

Duration: 0 hr 20 min Scoring: 30 points

Test (CS): Sequences and Series

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0

hr 40 min Scoring: 75 points

Test (TS): Sequences and Series

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0

hr 30 min Scoring: 50 points

LESSON 7: DIAGNOSTIC**Diagnostic: Sequences and Series**

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Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hr 40 min Scoring: 25 points

UNIT 9: RIGHT TRIANGLES

LESSON 1: AREA OF A TRIANGLE

Study: Area of a Triangle

Learn about the area of a polygon, square units, and the triangle area formula and theorem.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Area of a Triangle

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 18 points

LESSON 2: THE PYTHAGOREAN THEOREM

Study: The Pythagorean Theorem

Learn about 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.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: The Pythagorean Theorem

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 16 points

LESSON 3: CONGRUENT RIGHT TRIANGLES

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Study: Congruent Right Triangles

Learn about the HL, LL, HA, LA, and perpendicular bisector theorems. Learn about the angle bisector theorem and its converse.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Proving Right Triangle Congruence

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25

min Scoring: 26 points

Quiz: Right Triangle Measurements

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 18 points

LESSON 4: SIMILAR RIGHT TRIANGLES**Study: Similar Right Triangles**

Explore the properties of similar right triangles and 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 using proportions, and apply concepts learned to a miniature-golf problem.

Duration: 0 hr 40

min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Similar Right Triangles

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring:

16 points

LESSON 5: 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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: 45-45-90 Right Triangles

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring:

16 points

Quiz: 30-60-90 Right Triangles

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring:

12 points

LESSON 6: TRIGONOMETRIC RATIOS

Study: Trigonometric Ratios

Learn the definitions of *sine*, *cosine*, and *tangent*. Memorize "soh-cah-toa" as a mnemonic device relating to 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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Trigonometric Ratios

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 16

points

LESSON 7: WRAP-UP

Practice: Assignment

Submit your work for a set of 20 practice problems.

Duration: 1 hr Scoring: 100 points

Review: Review Exercise

Take part in interactive games to review unit material in preparation for upcoming assessments.

Duration: 1 hr Scoring: 0 points

Discuss: A Closer Look at a Baseball Diamond

Students respond to one of three discussion questions asking them to apply methods learned in this unit.

Duration: 0 hr 20 min Scoring: 30 points

Test (CS): Right Triangles

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hr 40 min Scoring: 75 points

Test (TS): Right Triangles

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hr 30 min Scoring: 50 points

LESSON 8: DIAGNOSTIC

Diagnostic: Right Triangles

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hr 40 min Scoring: 25 points

UNIT 10: CIRCLES

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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min Scoring: 0 points

Quiz: What Is a Circle?

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 30 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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Congruent Chords

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 26

points

Quiz: Chords and Perpendicular Radii

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 22 points

Quiz: Diameter of a Circle

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 18

points

LESSON 3: ARCS

Study: Arcs

Learn about 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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Arc Types and Measure

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring:

30 points

Quiz: Congruent Chords and Circle Angle Measure

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 24 points

LESSON 4: CIRCLES AND ANGLES

Study: Circles and Angles

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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Inscribed Angles

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 24 points

Quiz: Intersecting Chord Theorem

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 22 points

LESSON 5: SECANTS AND TANGENTS

Study: Secants and Tangents

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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Secant-Secant Angles

Quiz on secant-secant angles

Duration: 0 hr 25 min Scoring: 22 points

Quiz: Tangent-Chord Angles

Take a quiz to assess your understanding of the material.

*Duration: 0 hr 25 min Scoring:
24 points*

Quiz: Tangent-Tangent Angles and Their Intercepted Arcs

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 14 points

LESSON 6: 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 involving the raising of a highway over a river to allow for boating traffic underneath. Learn about the degree measure of an arc and arc length. Derive the formula for arc length.

*Duration: 0
hr 40 min Scoring: 0 points*

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

*Duration: 0 hr 30 min
Scoring: 0 points*

Quiz: Circumference of a Circle

Take a quiz to assess your understanding of the material.

*Duration: 0 hr 25 min
Scoring: 14 points*

Quiz: Arc Length

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 26 points

LESSON 7: 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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Area of a Circle

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 20 points

Quiz: Area of a Sector

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 26 points

LESSON 8: CIRCLES AND TRIANGLES

Study: Circles and Triangles

Learn about inscribed objects, the definition of incenter, circumscribed objects, and the definition of circumcenter.

Duration: 0 hr 40 min Scoring: 0 points

Quiz: Circles and Triangles

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 28 points

LESSON 9: CIRCLES AND POLYGONS

Study: Circles and Polygons

Learn about the theorem of a quadrilateral inscribed in a circle and the theorem of a parallelogram inscribed in a circle.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Circles and Polygons

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 24 points

LESSON 10: SPHERES

Study: Spheres

Learn about the definition of a sphere; the formulae for surface area and volume of a sphere; comparing the surface area and volume of a sphere, cube, cylinder, and cone; and deriving the formula for volume of a sphere using Cavalieri's principle.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Spheres

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 24 points

LESSON 11: WRAP-UP**Practice: Assignment**

Submit your work for a set of 20 practice problems.

Duration: 1 hr Scoring: 100 points

Review: Review Exercise

Take part in interactive games to review unit material in preparation for upcoming assessments.

Duration: 1 hr Scoring: 0 points

Discuss: A Circular Peg within A Square Hole

Respond to one of three discussion questions asking you to apply methods learned in this unit.

Duration: 0 hr 20 min Scoring: 30 points

Test (CS): Circles

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hr 40 min

Scoring: 75 points

Test (TS): Circles

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hr 30 min

Scoring: 50 points

LESSON 12: DIAGNOSTIC**Diagnostic: Circles**

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Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hr

40 min Scoring: 25 points

UNIT 11: DATA ANALYSIS

LESSON 1: WHAT IS A STATISTIC?

Study: What Is a Statistic?

Learn about descriptive inferential statistics, statistics parameters, sampling techniques, random samples, categorical numerical data, and graphic displays.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: What Is a Statistic?

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 28

points

Quiz: Types of Data

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 26 points

LESSON 2: GRAPHICAL ANALYSIS OF DATA

Study: Graphical Analysis of Data

Learn about the different ways to express data graphically and the various shapes or properties these representations have.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Graphical Analysis of Data

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 24 points

LESSON 3: NUMERICAL ANALYSIS OF DATA

Study: Numerical Analysis of Data

Learn about the numerical analysis of data as it relates to means, medians, modes, IQR outliers, test quartiles, boxplots, variance, and standard deviation.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Measures of Central Tendency

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 30 points

Quiz: Quartiles and Boxplots

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring:

28 points

Quiz: Measures of Spread

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 26

points

LESSON 4: RANDOM VARIABLES

Study: Random Variables

Explore random variable concepts such as discrete continuous variables, histograms, density, curves, mean, standard deviation of discrete random variables, normal curve, and z-score percentiles.

Duration: 0 hr 40

min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Random Variables

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 24

points

Quiz: Normal Curves

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Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 24 points

LESSON 5: TWO-VARIABLE DATA

Study: Two-Variable Data

Investigate two-variable data sets through concepts such as explanatory and response variables, scatterplots, correlation, least-squares regression, and residuals.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Scatterplots and Correlation

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 20 points

Quiz: Least Squares Regression

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 20 points

Study: Least Squares Regression Lines

Investigate two-variable data concepts such as scatterplots, least-squares regression lines, best-fit lines, and residuals.

Duration: 0 hr 40 min Scoring: 0 points

LESSON 6: EXPERIMENTAL DESIGN

Study: Experimental Design

Learn how to design and carry out an experiment employing the basic principles of experimental design.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Sampling and Simulation

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min
Scoring: 26 points

Quiz: Experimental Design

Take a quiz to assess your understanding of the material.
Duration: 0 hr 25 min Scoring: 24 points

LESSON 7: WRAP-UP

Practice: Assignment

Submit your work for a set of 20 practice problems.
Duration: 1 hr Scoring: 100 points

Review: Review Exercises

Take part in interactive games to review unit material in preparation for upcoming assessments.
Duration: 1 hr Scoring: 0 points

Discuss: Representing Data

Take part in a discussion about applying methods learned in this unit.
Duration: 0 hr 20 min
Scoring: 30 points

Test (CS): Data Analysis

Take a computer-scored test to assess what you have learned in this unit.
Duration: 0 hr 40 min
Scoring: 75 points

Test (TS): Data Analysis

Take a teacher-scored test to assess what you have learned in this unit.
Duration: 0 hr 30 min
Scoring: 50 points

LESSON 8: DIAGNOSTIC

Diagnostic: Data Analysis

Based on student responses this diagnostic will generate a personalized study plan that includes specific review material to address student weaknesses.
Duration: 0 hr 40 min Scoring: 25 points

UNIT 12: MATH II SEMESTER 2 WRAP-UP

LESSON 1: MATH II SEMESTER 2

Review: Math II Semester 2

Prepare for the semester exam by reviewing key concepts covered in Math II Semester 2.

Duration: 1 hr Scoring: 0 points

Exam: Math II Semester 2

Duration: 0 hr 50 min Scoring: 200 points