Apex Learning® Tutorials provide teachers with a solution to support all students in rising to the expectations established by state standards and the Common Core State Standards for math and English language arts, and national frameworks for science and social studies. With content developed specifically for the standards, Tutorials offer direct instruction, practice, review, and assessment to build the required knowledge and skills.

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About Tutorials

Tutorials are organized into units and modules, which are listed in this document. Each unit offers a prescriptive pretest, a series of modules, and a summative posttest. Each four-part module provides a unique instructional approach to build knowledge, develop critical thinking, and deepen understanding.

Learn It: Provides direct instruction that engages students in active learning

Try It: Develops skills and understanding with interactive practice and application

Review It: Reinforces concepts based on research best practices for use of video for learning

Test It: Assesses student knowledge and mastery of concepts through randomized assessment
Algebra I

Real Number System
- Monitoring Precision and Accuracy
- Operations on Rational and Irrational Numbers
- Laws of Exponents

Expressions, Equations, and Inequalities
- Multi-Step Equations and Inequalities
- Formulating and Simplifying Algebraic Expressions
- One-Step Equations and Inequalities

Applying Equations and Inequalities
- Literal Equations
- Formulating and Solving Equations from Word Problems
- Formulating and Solving Inequalities from Word Problems

Functions
- Domain and Range
- Functions and Relations
- Evaluating Functions

Linear Functions and Equations
- Point-Slope Form of a Linear Equation
- Slope
- Graphing and Analyzing Linear Functions
- Slope-Intercept Form of a Linear Equation

Graphs of Linear Functions and Inequalities
- Graphs of Linear Inequalities
- Graphing and Manipulating $y = mx + b$

Two-Variable Linear Systems
- Solving Systems of Linear Equations: Graphing
- Solving Systems of Linear Equations: Elimination
- Solving Systems of Linear Equations: Guess and Check
- Solving Systems of Linear Equations: Substitution

Linear Systems
- Solving Three-Variable Systems of Linear Equations
- Solving Systems of Linear Inequalities

Exponential Functions, Equations, and Inequalities
- Solving Exponential Inequalities
- Exponential Functions
- Exponential Growth and Decay

Sequences
- Arithmetic and Geometric Sequences
- Sequences

Arithmetic with Polynomials
- Polynomial Basics
- Multiplication of Polynomials
- Addition and Subtraction of Polynomials

Factoring Polynomials
- Factoring Special Cases
- Factoring Quadratic Trinomials
- Factoring Higher-Order Polynomials

Quadratic Functions
- Quadratic Parent Function
- Transformations of the Quadratic Parent Function
- Quadratic Functions
- Analyzing Graphs of Quadratic Functions

Solving Quadratic Equations
- Solving Quadratic Equations by Factoring
- Quadratic Formula
- Representations of Quadratic Functions
- Completing the Square

Working with Functions
- Arithmetic Operations on Functions
- Systems of Nonlinear Equations
- Inverse Functions
- Linear versus Nonlinear Functions

Transforming Functions
- Multiple Representations of Functions
- Transformations of the Linear and Exponential Parent Functions
- Linear and Exponential Parent Functions
- Absolute Value Functions

Statistics
- Data Analysis
- Scatterplots and Modeling
- Frequency Tables
- Scatterplots
## Geometry

### Points, Lines, and Angles
- Parallel and Perpendicular Lines
- Parallel Lines and Angle Relationships
- Points, Rays, Line Segments, Lines, and Figures
- Perpendicular Bisector and Angle Bisector Theorems

### Coordinate Geometry
- Length and the Distance Formula
- Point-Slope Form of a Linear Equation
- Midpoint Formula on the Coordinate Plane
- Slope-Intercept Form of a Linear Equation

### Applying Coordinate Geometry
- Area on the Coordinate Plane
- Conjectures in Coordinate Geometry
- Perimeter on the Coordinate Plane

### Transformations, Congruence, and Similarity
- Dilations, Translations, Rotations, and Reflections
- Transformations on the Coordinate Plane
- Triangles and Congruence Transformations
- Triangles and Similarity Transformations

### Congruence and Similarity in Polygons
- Similarity of Other Polygons
- Tessellations
- Congruence of Other Polygons

### Triangles
- Medians and Altitudes of Triangles
- Triangle Bisectors
- Triangle Angle Theorems

### Polygons
- Constructions
- Parallelograms and Rectangles

### Triangles and Trigonometry
- Laws of Sine and Cosine
- Pythagorean Theorem
- Radians and the Unit Circle
- Trigonometric Ratios

### Circles and Angles
- Secants, Angles, and Intercepted Arcs
- Tangents, Angles, and Intercepted Arcs
- Central Angles, Inscribed Angles, and Chords
- Circle Basics

### Measuring Circles
- Area of Circles and Sectors
- Congruent and Similar Circles
- Circumference and Arc Length

### Conic Sections
- Parabolas
- Circles

### Three-Dimensional Geometry
- Relating Two-Dimensional Figures to Three-Dimensional Solids
- Volume of Cylinders and Cones
- Volume of Prisms and Pyramids
- Surface Area and Volume of Spheres

### Composite Solids
- Volume of Composite Solids
- Surface Area of Composite Solids

### Working with Three-Dimensional Solids
- Modeling Situations with Geometry
- Surface Area of Similar Solids
- Volume of Similar Solids

### Probability I
- Analyzing Decisions in Probability
- Introduction to Probability
- Combinations and Permutations

### Probability II
- Geometric Probabilities
- Conditional Probability
Several lists of tutorials for Algebra II are provided, including:

- **Expressions, Equations, and Inequalities**
  - One-Step Equations and Inequalities
  - Formulating and Simplifying Algebraic Expressions
  - Multi-Step Equations and Inequalities

- **Solving Equations and Inequalities**
  - Formulating and Solving Equations from Word Problems
  - Formulating and Solving Inequalities from Word Problems
  - Literal Equations

- **Functions**
  - Inverse Functions
  - Domain and Range
  - Functions and Relations

- **Linear Functions, Equations, and Inequalities**
  - Sums of Geometric Sequences
  - Formulating and Solving Equations from Word Problems
  - Formulating and Solving Inequalities from Word Problems

- **Exponential and Logarithmic Functions**
  - Evaluating Exponential Expressions
  - Solving Exponential Equations
  - Solving Logarithmic Equations
  - Solving Exponential Inequalities

- **Polynomials**
  - Addition and Subtraction of Polynomials
  - Polynomial Basics
  - Multiplication of Polynomials
  - Division of Polynomials

- **Quadratic Functions I**
  - Solving Quadratic Equations by Factoring
  - Completing the Square

- **Quadratic Functions II**
  - Complex Numbers and Quadratic Functions
  - Quadratic Formula
  - Representations of Quadratic Functions

- **Factoring Polynomials I**
  - Graphs of Polynomial Functions
  - Factoring Special Cases
  - Factoring Cubic Polynomials

- **Factoring Polynomials II**
  - Factor Theorem and Remainder Theorem
  - Factoring Higher Order Polynomials

- **Complex Numbers and Polynomial Identities**
  - Polynomial Identities and Complex Numbers
  - Polynomial Identities
  - Complex Numbers
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Mathematics II

**Simplifying Expressions**
- Operations on Rational and Irrational Numbers
- Formulating and Simplifying Algebraic Expressions
- Laws of Exponents

**Equations and Inequalities**
- One-Step Equations and Inequalities
- Multi-Step Equations and Inequalities
- Literal Equations

**Functions**
- Domain and Range
- Functions and Relations

**Lines, and Angles**
- Parallel Lines and Angle Relationships
- Perpendicular Bisector and Angle Bisector Theorems

**Coordinate Geometry**
- Conjectures in Coordinate Geometry
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- Midpoint Formula on the Coordinate Plane

**Conic Sections**
- Parabolas
- Circles

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- Triangles and Congruence Transformations
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- Factoring Special Cases
- Factoring Quadratic Trinomials
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- Addition and Subtraction of Polynomials

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- Transformations of the Quadratic Parent Function
- Quadratic Functions
- Analyzing Graphs of Quadratic Functions

**Solving Quadratic Equations**
- Solving Quadratic Equations by Factoring
- Quadratic Formula
- Representations of Quadratic Functions
- Completing the Square

**Complex Numbers**
- Complex Numbers and Quadratic Functions
- Polynomial Identities and Complex Numbers
- Complex Numbers

**Working with Functions I**
- Multiple Representations of Functions
- Arithmetic Operations on Functions
- Inverse Functions

**Working with Functions II**
- Systems of Nonlinear Equations
- Absolute Value Functions

**Three-Dimensional Geometry**
- Volume of Composite Solids
- Volume of Similar Solids

**Probability**
- Analyzing Decisions in Probability
- Geometric Probabilities
- Introduction to Probability
- Combinations and Permutations
- Conditional Probability
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* Formulating and Simplifying Algebraic Expressions
* Literal Equations

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* Evaluating Logarithmic Expressions
* Logarithmic Functions

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* Solving Exponential Equations
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* Division of Polynomials

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* Graphs of Polynomial Functions
* Factoring Cubic Polynomials
* Factoring Higher Order Polynomials

Polynomial Identities
* Polynomial Identities and Complex Numbers
* Polynomial Identities

Radical Expressions, Equations, and Functions
* Analyzing Graphs of Square Root Functions
* Solving Square Root Equations

Rational Expressions, Equations, and Functions
* Analyzing Graphs of Rational Functions
* Modeling Situations with Rational Functions
* Operations with Rational Expressions
* Solving Rational Equations

Trigonometry
* Laws of Sine and Cosine
* Trigonometric Functions
* Radians and the Unit Circle

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* Multiple Transformations of Parent Functions
* Parent Functions
* Transformations of Parent Functions
* Domain and Range

Working with Functions
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* Multiple Representations of Functions
* Representations of Quadratic Functions
* Arithmetic Operations on Functions

Systems of Equations
* Solving Three-Variable Systems of Linear Equations
* Systems of Nonlinear Equations

Three-Dimensional Geometry I
* Relating Two-Dimensional Figures to Three-Dimensional Solids
* Surface Area of Composite Solids
* Surface Area and Volume of Spheres

Three-Dimensional Geometry II
* Modeling Situations with Geometry
* Surface Area of Similar Solids

Statistical Design and Analysis
* Analyzing Statistical Samples
* Conclusions in Data
* Experimental and Observational Design

Statistics and Probability
* Analyzing Decisions in Probability
* Normal Distribution
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Elements of Literature 1
* Imagery
* Figurative Language
* Theme

Elements of Literature 2
* Conflict
* Character Types
* Foreshadowing and Suspense

Reading Strategies 1
* Making Inferences
* Drawing Conclusions

Reading Strategies 2
* Implied Main Idea
* Determining Author’s Purpose
* Summary, Analysis, and Critique

Author’s Voice and Method 1
* Analyzing Author’s Style
* Analyzing Author’s Perspective

Author’s Voice and Method 2
* Hyperbole and Understatement
* Tone and Mood
* Word Choice

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* Evaluating Evidence
* Rhetorical Techniques
* Fact Versus Opinion
* Analyzing Audience Appeals

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* Text Structures and Development
* Logical Fallacies

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* Foundational U.S. Documents I
* Themes Across Cultures

Text Connections 2
* Analyzing Fiction Across Mediums
* Analyzing Interpretations of Nonfiction
* Transforming Ideas

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* Compare and Contrast

Text Organization 2
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* Flashback and Framing

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* Modifiers
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* Pronoun Case
* Pronoun Shifts and Ambiguity

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* Colon and Semicolons
* Commas with Phrases and Clauses
* End Marks
* Dashes and Hyphens

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* Using Context Clues
* Analyzing Figures of Speech and Idioms
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* Connotation and Denotation

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* Using the Dictionary and Thesaurus
* Using Style Manuals
* Spelling Rules

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* Introductions
* Conclusions

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* Writing and Technology
* Short Narratives
* Narrative Technique

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* Expository Thesis Statement
* Expository Paragraph Development

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* Argumentative Claims
* Argumentative Paragraph Development
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- Imagery
- Irony and Sarcasm
- Figurative Language

Elements of Literature 2
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- Conflict
- Foreshadowing and Suspense

Elements of Literature 3
- Plot
- Resolutions
- Theme

Elements of Literature 4
- Point of View I
- Point of View II
- Setting

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- Drawing Conclusions
- Making Inferences

Reading Strategies 2
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- Implied Main Idea
- Summary, Analysis, and Critique

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- Foundational American Literature: 19th Century
- Foundational American Literature: 20th Century

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- Analyzing Author's Style
- Sentence Style

Author's Voice and Method 2
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- Hyperbole and Understatement
- Tone and Mood
- Word Choice

Strategy
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- Analyzing Language
- Central Ideas
- Analyzing Effective Text Structures
- Text Structures in Fiction

Text Connections 1
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- Print and Nonprint Texts
- Analyzing Interpretations of Nonfiction

Text Connections 2
- Constitutional Principles
- Foundational U.S. Documents II

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- Compare and Contrast

Text Organization 2
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- Appositive and Absolute Phrases
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