Apex Learning® Tutorials for grades 6-8 provide teachers with a solution to support all students in rising to the expectations established by state standards and the Common Core State standards. With content developed specifically for the standards, Tutorials in math and English language arts for reading, writing, and language are used to deliver grade-level instruction, provide intervention and remediation, and prepare students for high-stakes assessments.

Contents

› About Tutorials ............................................................................................................................................. 1
› Math 6 .......................................................................................................................................................... 2
› Math 7 .......................................................................................................................................................... 3
› Math 8 .......................................................................................................................................................... 4
› English 6 ..................................................................................................................................................... 5
› English 7 ..................................................................................................................................................... 6
› English 8 ..................................................................................................................................................... 7

› 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
Math 6

1. Ratios and Rates
   ★ Ratios
   ★ Rates and Unit Rates
   ★ Solving Percent Problems
   ★ Unit Conversions

2. Number Sense
   ★ Dividing Fractions
   ★ Solving Problems by Dividing Fractions
   ★ Dividing Multi-Digit Whole Numbers
   ★ Decimal Operations
   ★ Greatest Common Factor and Least Common Multiple

3. Signed Numbers
   ★ Signed Numbers
   ★ Inequalities and Comparison
   ★ Absolute Value

4. The Coordinate Plane
   ★ Plotting Points on the Coordinate Plane
   ★ Quadrants and Axes
   ★ Using Graphs to Solve Problems

5. Numerical and Algebraic Expressions
   ★ Exponents
   ★ Writing Expressions
   ★ Understanding Parts of Expressions
   ★ Evaluating Expressions
   ★ Equivalent Expressions

6. Writing and Solving Equations and Inequalities
   ★ Solutions of Equations and Inequalities
   ★ Writing Expressions to Solve Problems
   ★ Solving Addition Equations
   ★ Solving Multiplication Equations
   ★ Solving Inequalities
   ★ Independent and Dependent Values
   ★ Multiple Representations: Tables, Graphs, and Equations

7. Geometry
   ★ Area
   ★ Volume
   ★ Coordinate Geometry
   ★ Solid Figures

8. Introduction to Statistics
   ★ Statistical Questions and Data Distributions
   ★ Measures of Center and Variability
   ★ Box Plots
   ★ Dot Plots and Histograms

9. Summarizing Data
   ★ Collecting Data
   ★ Summarizing Data Using Measures of Center and Variability
   ★ Choosing Appropriate Measures to Summarize Data Sets
Math 7

1. Rate, Ratio, and Proportion
   ★ Unit Rates
   ★ Identifying Proportional Relationships
   ★ Analyzing Proportional Relationships
   ★ Using Proportions to Solve Problems
2. Addition and Subtraction of Rational Numbers
   ★ Adding Rational Numbers
   ★ Subtracting Rational Numbers
   ★ Using Properties to Add and Subtract Rational Numbers
3. Multiplication and Division of Rational Numbers
   ★ Multiplying Rational Numbers
   ★ Dividing Rational Numbers
   ★ Using Properties to Multiply and Divide Rational Numbers
   ★ Expressing Rational Numbers in Decimal Form
   ★ Using Operations on Rational Numbers to Solve Problems
4. Algebraic Expressions, Equations, and Inequalities
   ★ Simplifying and Rewriting Algebraic Expressions
   ★ Solving Multi-Step Problems with Rational Numbers
   ★ Solving 2-Step Equations
   ★ Solving Linear Inequalities
5. Drawing, Constructing, and Exploring Geometric Figures
   ★ Scale Drawing
   ★ Geometric Drawings
   ★ Cross-Sections of Geometric Solids
6. Geometry in Two and Three Dimensions
   ★ Circles
   ★ Angle Relationships
   ★ Area, Volume, and Surface Area
7. Statistics and Sampling
   ★ Populations and Samples
   ★ Comparing Data Sets Visually
   ★ Using Statistical Measures to Compare Data Sets
8. Probability
   ★ Probability
   ★ Calculating Probability
   ★ Probability of Compound Events
   ★ Simulations
Math 8

1. **The Number System**
   - Rational and Irrational Numbers
   - Approximating Irrational Numbers
   - Properties of Exponents
   - Powers of 10
   - Scientific Notation

2. **Proportional Reasoning and Slope**
   - Slope
   - Multiple Representations of Proportions

3. **Functions**
   - Relations and Functions
   - Comparing Functions
   - Slope-Intercept Form
   - Writing Linear Functions
   - Graphs of Functions

4. **Solving Equations**
   - Solving Linear Equations
   - Solving Systems of Linear Equations
   - Solving Equations Using Roots

5. **Geometry and Measurement**
   - The Pythagorean Theorem
   - The Converse of the Pythagorean Theorem
   - Distance on the Coordinate Plane
   - Volume of Cylinders and Cones
   - Spheres

6. **Transformations, Congruence, and Similarity**
   - Basics of Transformations
   - Transformations and Congruence
   - Transformations in the Coordinate Plane
   - Similarity and Dilations
   - Parallel Lines and Angle Relationships
   - Angle Relationships in Triangles

7. **Date and Statistics**
   - Scatterplots
   - Linear Models in Data
   - Frequency Tables
English 6

1. Elements of Literature
   ★ Characterization 6
   ★ Plot 6
   ★ Point of View 6
   ★ Theme 6
2. Language Usage
   ★ Poetry 6
   ★ Figurative Language 6
   ★ Connotation and Denotation 6
3. Analyzing Literature
   ★ Literary Context 6
   ★ Comparing Narratives 6
4. Reading Strategies
   ★ Author’s Purpose 6
   ★ Central Idea and Summary 6
   ★ Making Inferences 6
5. Analyzing Informational Texts
   ★ Text Structures 6
   ★ Using Graphics 6
   ★ Making an Argument 6
6. Writing Skills 1
   ★ Planning and Organizing an Essay 6
   ★ Revising and Editing an Essay 6
   ★ Establishing Formal Style 6
7. Writing Skills 2
   ★ Introductions 6
   ★ Conclusions 6
   ★ Transitions 6
8. Types of Writing
   ★ Argumentative Essays 6
   ★ Expository Essays 6
   ★ Short Narratives 6
   ★ Narrative Techniques 6
9. Sentence Structure
   ★ Sentence Type 6
   ★ Pronouns 6
   ★ Punctuation 6
10. Usage
    ★ Using Contextual Clues 6
    ★ Commonly Confused Words 6
    ★ Word Roots 6
    ★ Word Relationships 6
English 7

1. Elements of Literature
   - Plot 7
   - Point of View 7
   - Setting 7
   - Theme 7

2. Language Usage
   - Poetic Devices 7
   - Figurative Language 7
   - Connotation and Denotation 7
   - Comparing Fiction and Nonfiction 7

3. Reading Strategies
   - Author’s Purpose 7
   - Central Idea 7
   - Summarizing Information 7
   - Making Inferences 7

4. Analyzing Argumentative Texts
   - Analyzing an Argument 7
   - Using Evidence 7

5. Analyzing Informational Texts
   - Text Structures 7
   - Using Graphics 7

6. Writing Skills 1
   - Planning and Organizing an Essay 7
   - Revising and Editing an Essay 7
   - Establishing a Formal Style 7

7. Writing Skills 2
   - Introductions 7
   - Conclusions 7
   - Transitions 7

8. Expository Writing
   - Expository Essays 7
   - Expository Paragraphs 7

9. Argumentative Writing
   - Argumentative Essays 7
   - Argumentative Claims 7
   - Argumentative Paragraphs 7

10. Narrative Writing
    - Personal Narratives 7
    - Narrative Techniques 7

11. Sentence Structure
    - Commas 7
    - Sentence Types 7
    - Phrases 7

12. Usage
    - Using Reference Materials 7
    - Word Relationships 7
    - Word Roots 7
    - Using Contextual Clues 7
    - Commonly Confused Words 7
English 8

1. Elements of Literature
   - Point of View
   - Plot
   - Theme
   - Transforming Ideas

2. Literary Elements
   - Structure and Form
   - Figurative Language
   - Connotation and Denotation

3. Reading Strategies
   - Central Idea and Summary
   - Author’s Purpose
   - Text and Visual Elements

4. Analyzing Informational Texts
   - Word Choice
   - Synthesizing Information
   - Text Structures
   - Analyzing an Argument
   - Analyzing Conflicting Evidence

5. Writing 1
   - Planning and Organizing
   - Establishing a Formal Style
   - Revising and Editing

6. Writing 2
   - Introductions
   - Conclusions
   - Using Transitions

7. Informative Writing
   - Developing Expository Essays
   - Developing Argumentative Essays
   - Identifying Audience Appeals

8. Narrative Writing
   - Narrative Plot Development
   - Narrative Techniques

9. Sentence Structure
   - Verb Tense and Voice
   - Verb Mood
   - Verbals

10. Word Usage
    - Context Clues
    - Word Relationships
    - Word Roots
    - Using Reference Materials
    - Spelling Rules
    - Punctuation