

SEMESTER PACING GUIDE

Feel free to rearrange topic order to fit your needs.

Week 1 (ACT Math)

ACT Math Introduction

Right Triangles - Pythagorean Theorem Video with NT Guide

- Setting up the Pythagorean Theorem
- Recognizing Pythagorean Triples
- Recognizing Pythagorean Triples (Scaled)
- 45-45-90 and 30-60-90 Triangles w/ Video & NT Guide
- Right Triangles Final Quiz

Distance and Midpoint Video with Note-taking Guide

- Midpoint: Number Line
- Midpoint: Coordinate Plane
- Distance: Number Line
- Distance: Coordinate Plane

Week 2 (ACT Math)

Substitution Video with Note-taking Guide

- Substitution: Polynomials and Absolute Value
- Substitution: Rationals and Exponentials
- Substituting and Solving
- Substituting an Expression
- Substitution: Functions of Two Variables

Linear Relationships Video with Note-taking Guide

- Linear Relationships and Slopes
- Linear Relationships and Tables
- Linear Relationships and Graphs
- Linear Modeling

Week 3 (ACT Math)

Perimeter and Area Video with Note-taking Guide

- Perimeter and Circumference
- Arc Length
- Finding Dimensions
- Area – Simple
- Area for Pros

Angles Video with Note-taking Guide

- Triangles – Interior Angles
- Polygons – Interior Angles
- Vertical Angles and Linear Pairs
- Angles Final Quiz

Week 4 (ACT Math)

Right Triangle Trigonometry Video with Note-taking Guide

- Setting Up Trig Ratios
- Trig Ratios: Find Missing Length
- Trig Ratios: Real World Scenarios

Laws of Sines and Cosines Video with Note-taking Guide

- Setting Up the Law of Sines
- Setting Up the Law of Cosines
- Solving with the Laws of Sines and Cosines

Circle Trigonometry Video with Note-taking Guide

- Circle Trigonometry

Week 5 (ACT Math)	Measures of Central Tendency - Average Video with NT Guide
	Average (Simple) Weighted Average Average: Missing Score Median
Week 6 (ACT Math)	Probability Video with Note-taking Guide
	Single Event Multiple Events Conditional Probability Expected Value
Week 7 (ACT Math)	Solving Equations
	Solving Linear Equations—Video, NT Guide, Quiz Solving Polynomials Equations—Video, NT Guide, Quiz Solving Absolute Value Equations—Video, NT Guide, Quiz
Week 8 (ACT Math)	Systems of Equations
	Systems – Elimination Systems – Substitution Systems – Graphing Systems – Final Quiz
	Rational Expressions
	Factoring—Video, NT Guide, Quiz Rational Expressions—Video, NT Guide, Quiz
	Exponential Expressions and Equations
	Properties of Exponents—Video, NT Guide, Quiz Solving Exponential Equations—Video, NT Guide, Quiz
	Logarithmic Expressions and Equations
	Properties of Logarithms—Video, NT Guide, Quiz Solving Logarithmic Equations—Video, NT Guide, Quiz
	Numbers and Arithmetic Less Frequently-Tested Topics
	Unit Rate Percentages Proportions
	Statistics and Probability Less Frequently-Tested Topics
	The Multiplication Principle Factorials Permutations
	Algebra Less Frequently-Tested Topics
	Distributive Property Conic Sections Matrices – Addition, Scalar Multiplication, and Determinants Matrix Multiplication
	Geometry Less Frequently-Tested Topics
	Similar Figures 3-D Surface Area and Volume Vectors in Component Form Vectors into Unit Vector Form
	Math Final Quizzes
	Math Final Quizzes – Levels 1-6

Week 9 (ACT English)

ACT English Introduction

Subject-Verb Agreement Video with Note-taking Guide

- Basic Subject-Verb Agreement
- Subject-Verb Separation
- Matching Verb Tense
- Subject-Verb Agreement Final Quiz

Punctuation Video with Note-taking Guide

- Connecting with Commas
 - Semicolons
 - Colons
 - Dashes
 - Extraneous Punctuation
 - Punctuation Final Quiz
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Commas Video with Note-taking Guide

- Introductory Elements
- Commas and Adjectives
- Commas and Interrupters
- Extraneous Commas
- Avoiding Comma Splices
- Commas Final Quiz

Week 10 (ACT English)

Transitions Video with Note-Taking Guide

- Similar Ideas
 - Contrasting Ideas
 - Cause-and-Effect
 - Additional Information
 - Transitions Final Quiz
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Redundancy Video with Note-taking Guide

- Redundancy with Synonyms
- Redundancy with Definitions
- Redundancy Final Quiz

Week 11 (ACT English)

Misplaced Modifiers Video with Note-taking Guide

- Avoid Dangling Modifiers
 - Misplaced Modifiers
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Pronoun-Antecedent Agreement Video with Note-taking Guide

- Pronouns and Antecedents
- Who or Whom

Week 12 (ACT English)

Possessive Forms Video with Note-taking Guide

- Possessive Forms Quiz

Adjectives and Adverbs Video with Note-taking Guide

- Adjectives and Adverbs Quiz
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English – Global Items Video with Note-taking Guide

- Deletion Quiz
- Addition Quiz
- Split into 2 Paragraphs Quiz
- Placement Quiz
- Purpose Quiz

Week 13 (ACT English)

English Final Quizzes

- English Final Quizzes 1-3
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**Week 14
(ACT Reading)**

ACT Reading Introduction
Direct from Text Video w/ Note-taking Guide
 Quizzes 1, 2, 3, and Final Quiz
Meaning from Context Video w/ Note-taking Guide
 Quizzes 1, 2, and Final Quiz
Inferences Video w/ Note-taking Guide
 Quizzes 1, 2, and Final Quiz
Point of View Video w/ Note-taking Guide
 Quizzes 1, 2, 3, and Final Quiz
Summary Items Video w/ Note-taking Guide
 Quizzes 1, 2, 3, 4, and Final Quiz
Writing Techniques Content
 Quizzes 1, 2, and Final Quiz

**Week 15
(ACT Reading)**

Prose Fiction Video w/ Note-taking Guide, Quizzes 1, 2, and 3
Social Science Video w/ Note-taking Guide, Quizzes 1 and 2
Humanities Video w/ Note-taking Guide, Quizzes 1, 2, and 3
Natural Science Video w/ Note-taking Guide, Quizzes 1, 2, and 3
Double Passages Video w/ Note-taking Guide, Quiz 1

**Week 16
(ACT Science)**

ACT Science Introduction
Reading Tables
 Reading Tables Quiz
 Relationships in Tables Quiz
 Making Predictions from Tables Quiz
Reading Graphs
 Reading Graphs Quiz
 Relationships in Graphs Quiz
 Making Predictions from Graphs Quiz

**Week 17
(ACT Science)**

Data in Different Forms with Quiz
Identifying Maxima and Minima with Quiz
Analyzing Experiments with Quiz
Evaluating Hypotheses with Quiz
Multiple Y-Axes with Quizzes 1, 2, and 3
Vertical Axis Input Values with Warmup Quiz and Final Quiz
Utilizing Multiple Data Sources
 Utilizing Text with Data
 Utilizing Multiple Data Sources
ACT Science Final Quizzes
 Science Final Quiz 1
 Science Final Quiz 2
 Science Final Quiz 3
 Conflicting Viewpoints Passage

**Week 18
(Practice Tests)**

2021-2022 Preparing for the ACT Guide (See “Getting Started” section of the course)
 ---English Practice Test w/ student scoring
 ---Math Practice Test w/ student scoring
 ---Reading Practice Test w/ student scoring
 ---Science Practice Test w/ student scoring
