

## TWO MONTHS PACING GUIDE

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### 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 and 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

#### 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 2 (ACT Math)

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#### 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

#### 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 3 (ACT Math)

### Measures of Central Tendency - Average Video with NT Guide

Average (Simple)  
 Weighted Average  
 Average: Missing Score  
 Median

### Probability Video with Note-taking Guide

Single Event  
 Multiple Events  
 Conditional Probability  
 Expected Value

### Solving Equations

Solving Linear Equations—Video, NT Guide, Quiz  
 Solving Polynomials Equations—Video, NT Guide, Quiz  
 Solving Absolute Value Equations—Video, NT Guide, Quiz

### 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

## Week 4 (ACT Math)

### Numbers and Arithmetic Less Frequently-Tested Topics

Per Unit  
 Percentages  
 Proportions

### Statistics and Probability Less Frequently-Tested Topics

The Multiplication Principle  
 Factorials  
 Permutations

### Algebra Less Frequently-Tested Topics

Distributive Property  
 Conic Sections: Circles  
 Matrices – Addition, Scalar Multiplication, and Determinants  
 Matrix Multiplication

### Geometry Less Frequently-Tested Topics

Similar Figures  
 3-D Surface Area and Volume

### Math Final Quizzes

Math Final Quizzes – Levels 1-6

## **Week 5 (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

#### **Commas Video with Note-taking Guide**

- Introductory Elements
  - Commas and Adjectives
  - Commas and Interrupters
  - Extraneous Commas
  - Avoiding Comma Splices
  - Commas Final Quiz
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## **Week 6 (ACT English)**

#### **Transitions Video with Note-Taking Guide**

- Similar Ideas
- Contrasting Ideas
- Cause-and-Effect
- Additional Information
- Transitions Final Quiz

#### **Redundancy Video with Note-taking Guide**

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

#### **Misplaced Modifiers Video with Note-taking Guide**

- Avoid Dangling Modifiers
- Misplaced Modifiers

#### **Pronoun-Antecedent Agreement Video with Note-taking Guide**

- Pronouns and Antecedents
- Who or Whom

#### **Possessive Forms Video with Note-taking Guide**

- Possessive Forms Quiz

#### **Adjectives and Adverbs Video with Note-taking Guide**

- Adjectives and Adverbs Quiz

**Week 7  
(ACT English &  
Reading)**

**English – Global Items Video with Note-taking Guide**

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

**English Final Quizzes**

- English Final Quiz 1
- English Final Quiz 2
- English Final Quiz 3

**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

**Week 8  
(ACT Reading &  
Science)**

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**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

**Everything EXCEPT Video w/ Note-taking Guide Final Quiz**

**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**

**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 9  
(ACT Science &  
Practice Tests)**

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  
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