

Scores of 60, 80, and 100 are default milestones in ACT CollegeReady, indicating levels of student readiness in math for different college programs.

*ACT CollegeReady milestone scores were informed by a survey of the competency expectations of postsecondary programs of study across the United States.*

THIS SCORE INDICATES A STUDENT IS...

**60**

*Likely prepared to pursue introductory-level, non-STEM college math courses.*

**COMPETENCY:** ARITHMETIC AND SOME BEGINNING ALGEBRA

THIS SCORE INDICATES A STUDENT IS...

**80**

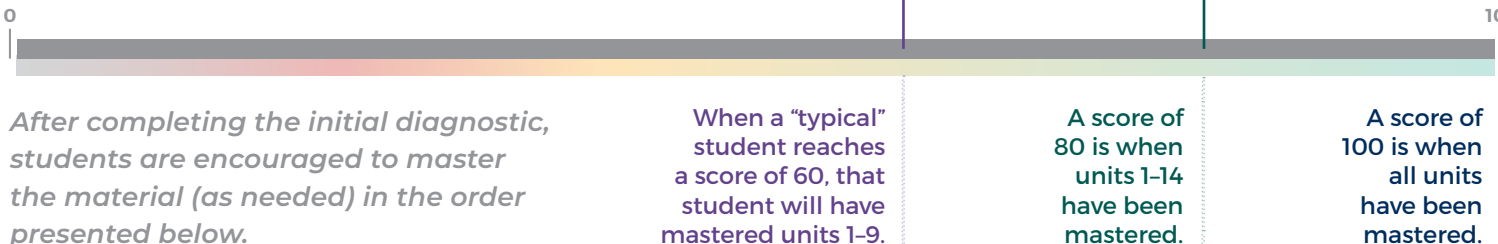
*Prepared for most introductory-level college math courses.*

**COMPETENCY:** ARITHMETIC AND BEGINNING ALGEBRA

...INDICATES A STUDENT IS...

**100**

*Well-prepared for college math, including STEM programs.*



After completing the initial diagnostic, students are encouraged to master the material (as needed) in the order presented below.

When a "typical" student reaches a score of 60, that student will have mastered units 1-9.

A score of 80 is when units 1-14 have been mastered.

A score of 100 is when all units have been mastered.

**1: Whole Numbers**

- Introduction to Whole Numbers
- Adding and Subtracting Whole Numbers
- Multiplying and Dividing Whole Numbers
- Properties of Whole Numbers
- Exponents, Square Roots, and the Order of Operations

**2: Fractions and Mixed Numbers**

- Introduction to Fractions and Mixed Numbers
- Multiplying and Dividing Fractions and Mixed Numbers
- Adding and Subtracting Fractions and Mixed Numbers

**3: Decimals**

- Introduction to Decimals
- Decimal Operations

**4: Ratios, Rates and Proportions**

- Ratio and Rates | Proportions

**5: Percents**

- Introduction to Percents
- Solving Percent Problems

**6: Measurement**

- U.S. Customary Units of Measurement
- Metric Units of Measurement
- Temperature

**7: Geometry**

- Basic Geometric Concepts and Figures
- Perimeter, Circumference, and Area
- Volume of Geometric Solids

**8: Concepts in Statistics**

- Statistical Graphs and Tables
- Measures of Center
- Graphical Representations
- Probability

**9: Real Numbers**

- Introduction to Real Numbers
- Operations with Real Numbers
- Properties of Real Numbers
- Simplifying Expressions

**10: Solving Equations and Inequalities**

- Solving Equations
- Solving Inequalities
- Compound Inequalities and Absolute Value

**11: Exponents and Polynomials**

- Integer Exponents
- Polynomials with Single Variables
- Polynomials with Several Variables

**12: Factoring**

- Introduction to Factoring
- Factoring Polynomials
- Solving Quadratic Equations

**13: Graphing**

- Graphs and Applications
- Slope and Writing the Equation of a Line

**14: Systems of Equations and Inequalities**

- Graphing Systems of Equations and Inequalities
- Algebraic Methods to Solve Systems of Equations
- Systems of Equations in Three or More Variables

**15: Rational Expressions**

- Operations with Rational Expressions
- Rational Equations
- Formulas and Variation

**16: Radical Expressions and Quadratic Equations**

- Introduction to Roots and Rational Exponents

- Operations with Radicals
- Radical Equations
- Complex Numbers
- Solving Quadratic Equations

**17: Functions**

- Introduction to Functions
- Using Functions
- Operations with Functions

**18: Exponential and Logarithmic Functions**

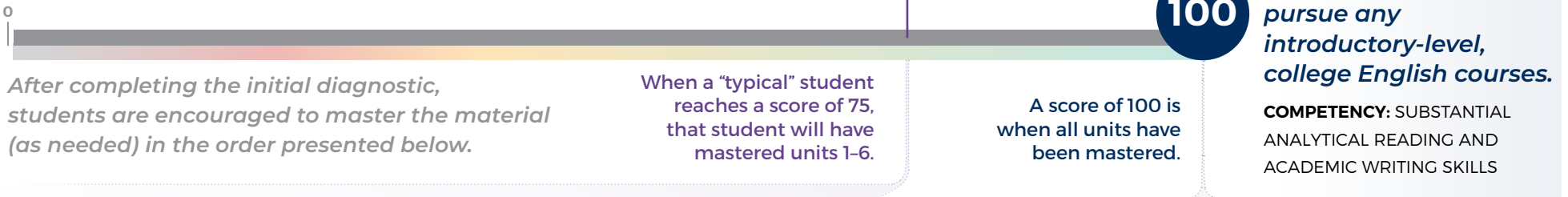
- Exponential Functions
- Logarithmic Functions
- Natural Logarithms
- Logarithmic and Exponential Equations

**19: Trigonometry**

- Introduction to Trigonometric Functions
- Graphing Trigonometric Functions

Scores of 75 and 100 are default milestones in ACT CollegeReady, indicating levels of student readiness in English for different college programs.

*ACT CollegeReady milestone scores were informed by a survey of the competency expectations of postsecondary programs of study across the United States.*



### 1: Introduction to College Reading and Writing

**READING:**  
Author, Audience, and Purpose

*Fact and Opinion  
Using Context Clues  
Identifying Word Parts  
Topic Sentences*

**WRITING**  
Topic Sentences  
Revising, Editing, and Proofreading

**GRAMMAR**  
Subjects and Verbs  
Prepositional Phrases  
End Punctuation

### 2: Identifying Main Ideas

**READING**  
Stated Main Ideas  
Supporting Details  
Using Context Clues  
Identifying Word Parts

**WRITING**  
Developing a Thesis Statement and Supporting Ideas

**GRAMMAR**  
Run-on Sentences  
Comma Splices  
Sentence Fragments

### 3: Discovering Implied Meaning

**READING**  
Author's Point of View and Cultural Context  
Implied Main Ideas

*Major and Minor  
Supporting Details  
Using Context Clues  
Identifying Word Parts*

**WRITING**  
Developing an Implied Thesis Statement and Topic Sentences  
Coherence

**GRAMMAR**  
Subject-Verb Agreement  
Past, Present, and Future Tense

### 4: Interpreting Bias

**READING**  
Making Inferences and Drawing Conclusions  
Outlining a Reading  
Faulty Parallel Structure

*Using Context Clues  
Identifying Word Parts*

**WRITING**  
Using Transitional Words and Phrases

**GRAMMAR**  
Commas with Introductory Phrases  
Commas with Transitions  
Adjectives and Adverbs

### 5: Analysis Through Definition

**READING**  
Identifying Denotation and Connotation  
Identifying Types of Definitions

*Recognizing Objective and Subjective Language  
Using Context Clues  
Identifying Word Parts*

**WRITING**  
Creating an Effective Introductory Paragraph for an Essay  
Understanding the Four Sentence Types

**GRAMMAR**  
Comma Use in a Series  
First-, Second-, and Third-Person Pronouns

### 6: Learning Across Disciplines

**READING**  
Understanding Reading and Writing Differences Across Disciplines  
Using Context Clues  
Identifying Word Parts

**WRITING**  
Developing Support in an Analysis Essay  
Creating an Effective Conclusion for a Multiparagraph Essay

**GRAMMAR**  
Coordinating and Subordinating Conjunctions  
Commas with Relative Pronouns  
Apostrophes

### 7: Exploring Comparative Elements

**READING**  
Identifying a Comparison Made in a Reading  
Figurative Language  
Using Context Clues  
Identifying Word Parts

**WRITING**  
Developing a Thesis for a Compare and Contrast Essay  
Developing an Outline for a Compare and Contrast Essay  
Figurative Language

**GRAMMAR**  
Commonly Confused Words  
Parenthetical Expressions  
Mistakes with Modifiers  
Active and Passive Voice

### 8: Informed Opinions through Causal Chains

**READING**  
Listing Causes and Effects in a Reading  
Logical Fallacies and Causal Relationships  
Using Context Clues  
Identifying Word Parts

**WRITING**  
Responding Effectively to Essay Assignments

**GRAMMAR**  
Numbers  
Semicolons, Colons, and Commas

### 9: Applied Critical Analysis

**READING**  
Recognizing the Main Idea and Source Bias in a Complex Reading  
Evaluating Credible Sources Used Within a Reading  
Logical Fallacies and Analysis  
Using Context Clues  
Identifying Word Parts

**WRITING**  
Using Effective Evidentiary Support

*Paraphrasing vs. Direct Quotations  
Blending Source Material into an Essay*

**GRAMMAR**  
Creating Concise Sentences  
MLA Citation Styles

### 10: Using Sources in Critical Reading and Writing

**READING**  
Restating Different Viewpoints  
Using Context Clues  
Identifying Word Parts

**WRITING**  
Finding and Evaluating Sources  
Evidentiary Support  
Avoiding Plagiarism  
Formatting a College Essay – APA Style

**GRAMMAR**  
Capitalizing Words and Punctuating Titles  
Quotation Marks  
APA Citation Styles