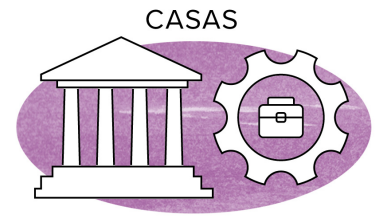


CASAS Math Alignments

This goal contains the following study paths:

1. CASAS Level A
2. CASAS Level B
3. CASAS Level C
4. CASAS Level D
5. CASAS Level E



Students can access the study paths in the displayed order. Only 'Level A' is unlocked by default, but the next study path in the sequence will automatically be unlocked when students reach their target score (90).

STUDY PATH 1: CASAS Level A

Unit 1: Whole Numbers

Introduction to Whole Numbers

- Place Value and Names for Whole Numbers
- Comparing Whole Numbers

Adding and Subtracting Whole Numbers

- Subtracting Whole Numbers and Applications

Multiplying and Dividing Whole Numbers

- Multiplying Whole Numbers and Applications
- Dividing Whole Numbers and Applications

Properties of Whole Numbers

- Properties and Laws of Whole Numbers
- The Distributive Property

Unit 2: Fractions and Mixed Numbers

Introduction to Fractions and Mixed Numbers

- Introduction to Fractions and Mixed Numbers
- Factors and Primes
- Comparing Fractions

Unit 3: Decimals

Decimal Operations

- Adding and Subtracting Decimals

Unit 8: Concepts in Statistics

Statistical Graphs and Tables

- Graphing Data
- Other Types of Graphs

Unit 10: Solving Equations and Inequalities

Solving Equations

- Solving One-Step Equations Using Properties of Equality

STUDY PATH 2: CASAS Level B

Unit 1: Whole Numbers

Introduction to Whole Numbers

- Rounding Whole Numbers
- Comparing Whole Numbers

Adding and Subtracting Whole Numbers

- Subtracting Whole Numbers and Applications
- Estimation

Multiplying and Dividing Whole Numbers

- Multiplying Whole Numbers and Applications
- Dividing Whole Numbers and Applications

Properties of Whole Numbers

- Properties and Laws of Whole Numbers
- The Distributive Property

Exponents, Square Roots, and Order of Operations

- Understanding Exponents and Square Roots
- Order of Operations

Unit 2: Fractions and Mixed Numbers

Introduction to Fractions and Mixed Numbers

- Introduction to Fractions and Mixed Numbers
- Proper and Improper Fractions
- Factors and Primes
- Simplifying Fractions
- Comparing Fractions

Multiplying and Dividing Fractions and Mixed Numbers

- Dividing Fractions and Mixed Numbers

Adding and Subtracting Fractions and Mixed Numbers

- Adding Fractions and Mixed Numbers
- Subtracting Fractions and Mixed Numbers

Unit 3: Decimals

Introduction to Decimals

- Decimals and Fractions
- Ordering and Rounding Decimals

Decimal Operations

- Adding and Subtracting Decimals
 - Multiplying and Dividing Decimals
 - Estimation With Decimals
- continued...*

Topics that are also covered in a prior CASAS study path are underlined.

Unit 4: Ratios, Rates, and Proportions

Ratios and Rates

- Simplifying Ratios and Rates

Proportions

- Understanding Proportions

Unit 5: Percents

Introduction to Percents

- Convert Percents, Decimals, and Fractions

Solving Percent Problems

- Solving Percent Problems

Unit 6: Measurement

U.S. Customary Units of Measurement

- Length
- Weight
- Capacity

Metric Units of Measurement

- The Metric System

Temperature

- Temperature Scales

Unit 7: Geometry

Basic Geometric Concepts and Figures

- Figures in 1 and 2 Dimensions
- Properties of Angles
- Triangles
- The Pythagorean Theorem

Perimeter, Circumference, and Area

- Quadrilaterals
- Perimeter and Area
- Circles

Volume of Geometric Solids

- Solids

Unit 8: Concepts in Statistics

Statistical Graphs and Tables

- Graphing Data
- Other Types of Graphs

Measures of Center

- Measures of Center

Graphical Representations

- Use and Misuse of Graphical Representations

Unit 9: Real Numbers

Properties of Real Numbers

- Associative, Commutative, and Distributive Properties

Simplifying Expressions

- Order of Operations

Unit 10: Solving Equations and Inequalities

Solving Equations

- Solving One-Step Equations Using Properties of Equality
- Special Cases and Applications
- Formulas

Unit 12: Factoring

Solving Quadratic Equations

- Solve Quadratic Equations by Factoring

Unit 13: Graphing

Slope and Writing the Equation of a Line

- Writing the Equation of a Line

Unit 19: Trigonometry

Introduction to Trigonometric Functions

- Unit Circle Trigonometry

STUDY PATH 3: CASAS Level C

Unit 1: Whole Numbers

Introduction to Whole Numbers

- Comparing Whole Numbers

Adding and Subtracting Whole Numbers

- Estimation

Multiplying and Dividing Whole Numbers

- Multiplying Whole Numbers and Applications
- Dividing Whole Numbers and Applications

Properties of Whole Numbers

- Properties and Laws of Whole Numbers
- The Distributive Property

Exponents, Square Roots, and Order of Operations

- Understanding Exponents and Square Roots
- Order of Operations

Unit 2: Fractions and Mixed Numbers

Introduction to Fractions and Mixed Numbers

- Proper and Improper Fractions
- Factors and Primes
- Simplifying Fractions
- Comparing Fractions

Adding and Subtracting Fractions and Mixed Numbers

- Adding Fractions and Mixed Numbers
- Subtracting Fractions and Mixed Numbers

Unit 3: Decimals

Introduction to Decimals

- Ordering and Rounding Decimals

Decimal Operations

- Adding and Subtracting Decimals
- Estimation With Decimals

Unit 4: Ratios, Rates, and Proportions

Ratios and Rates

- Simplifying Ratios and Rates

Proportions

- Understanding Proportions

Unit 5: Percents

Introduction to Percents

- Convert Percents, Decimals, and Fractions

Solving Percent Problems

- Solving Percent Problems

Unit 6: Measurement

U.S. Customary Units of Measurement

- Length
- Weight
- Capacity

continued...

Metric Units of Measurement

- [The Metric System](#)

Temperature

- [Temperature Scales](#)



Unit 7: Geometry

Basic Geometric Concepts and Figures

- [Figures in 1 and 2 Dimensions](#)
- [Properties of Angles](#)
- [Triangles](#)
- [The Pythagorean Theorem](#)

Perimeter, Circumference, and Area

- [Quadrilaterals](#)
- [Perimeter and Area](#)
- [Circles](#)

Volume of Geometric Solids

- [Solids](#)



Unit 8: Concepts in Statistics

Statistical Graphs and Tables

- [Graphing Data](#)
- [Other Types of Graphs](#)

Graphical Representations

- [Use and Misuse of Graphical Representations](#)

Probability

- [Probability](#)



Unit 9: Real Numbers

Introduction to Real Numbers

- [Variables and Expressions](#)
- [Integers](#)
- [Rational Real Numbers](#)

Operations With Real Numbers

- [Adding Integers](#)
- [Adding Real Numbers](#)
- [Subtracting Real Numbers](#)
- [Multiplying and Dividing Real Numbers](#)

Properties of Real Numbers

- [Associative, Commutative, and Distributive Properties](#)

Simplifying Expressions

- [Order of Operations](#)



Unit 10: Solving Equations and Inequalities

Solving Equations

- [Solving One-Step Equations Using Properties of Equality](#)
- [Solving Multi-Step Equations](#)
- [Special Cases and Applications](#)
- [Formulas](#)

Solving Inequalities

- [Solving One-Step Inequalities](#)
- [Multi-Step Inequalities](#)

Compound Inequalities and Absolute Value

- [Compound Inequalities](#)
- [Equations and Inequalities and Absolute Value](#)



Unit 11: Exponents and Polynomials

Integer Exponents

- [Scientific Notation](#)

Polynomials With Single Variables

- [Introduction to Single Variable Polynomials](#)
- [Adding and Subtracting Polynomials](#)
- [Multiplying Polynomials](#)
- [Multiplying Special Cases](#)
- [Dividing by a Monomial](#)
- [Dividing by Binomials and Polynomials](#)

Polynomials With Several Variables

- [Simplifying and Evaluating Polynomials With More Than One Term](#)
- [Operations With Polynomials](#)



Unit 12: Factoring

Introduction to Factoring

- [Greatest Common Factor](#)

Solving Quadratic Equations

- [Solve Quadratic Equations by Factoring](#)



Unit 13: Graphing

Graphs and Applications

- [The Coordinate Plane](#)
- [Graphing Linear Equations](#)

Slope and Writing the Equation of a Line

- [Finding the Slope of a Line](#)
- [Writing the Equation of a Line](#)



Unit 14: Systems of Equations and Inequalities

Graphing Systems of Equations and Inequalities

- [Graphing Systems of Linear Equations](#)
- [Graphing Systems of Inequalities](#)

Algebraic Methods to Solve Systems of Equations

- [The Substitution Method](#)
- [The Elimination Method](#)

Systems of Equations in Three or More Variables

- [Solving Systems of Three Variables](#)



Unit 16: Radical Expressions and Quadratic Equations

Solving Quadratic Equations

- [The Quadratic Formula](#)



Unit 17: Functions

Introduction to Functions

- [Identifying Functions](#)

Using Functions

- [Graphing Types of Functions](#)



Unit 18: Exponential and Logarithmic Functions

Exponential Functions

- [Introduction to Exponential Functions](#)



Unit 19: Trigonometry

Introduction to Trigonometric Functions

- [Unit Circle Trigonometry](#)

STUDY PATH 4: CASAS Level D



Unit 1: Whole Numbers

Introduction to Whole Numbers

- [Comparing Whole Numbers](#)

Adding and Subtracting Whole Numbers

- [Estimation](#)

Multiplying and Dividing Whole Numbers

- [Multiplying Whole Numbers and Applications](#)

Properties of Whole Numbers

- [Properties and Laws of Whole Numbers](#)

Exponents, Square Roots, and Order of Operations

- [Understanding Exponents and Square Roots](#)



Unit 2: Fractions and Mixed Numbers

Introduction to Fractions and Mixed Numbers

- [Comparing Fractions](#)

Adding and Subtracting Fractions and Mixed Numbers

- [Subtracting Fractions and Mixed Numbers](#)



Unit 3: Decimals

Introduction to Decimals

- [Ordering and Rounding Decimals](#)

Decimal Operations

- [Adding and Subtracting Decimals](#)
- [Estimation With Decimals](#)



Unit 4: Ratios, Rates, and Proportions

Ratios and Rates

- [Simplifying Ratios and Rates](#)

Proportions

- [Understanding Proportions](#)



Unit 5: Percents

Introduction to Percents

- [Convert Percents, Decimals, and Fractions](#)

Solving Percent Problems

- [Solving Percent Problems](#)



Unit 6: Measurement

Metric Units of Measurement

- [The Metric System](#)

Temperature

- [Temperature Scales](#)



Unit 7: Geometry

Basic Geometric Concepts and Figures

- [Figures in 1 and 2 Dimensions](#)
- [Properties of Angles](#)
- [Triangles](#)
- [The Pythagorean Theorem](#)

Perimeter, Circumference, and Area

- [Quadrilaterals](#)
- [Perimeter and Area](#)
- [Circles](#)

Volume of Geometric Solids

- [Solids](#)



Unit 8: Concepts in Statistics

Statistical Graphs and Tables

- [Graphing Data](#)
- [Other Types of Graphs](#)

Measures of Center

- [Measures of Center](#)

Graphical Representations

- [Use and Misuse of Graphical Representations](#)

Probability

- [Probability](#)



Unit 9: Real Numbers

Introduction to Real Numbers

- [Variables and Expressions](#)
- [Integers](#)

Properties of Real Numbers

- [Associative, Commutative, and Distributive Properties](#)



Unit 10: Solving Equations and Inequalities

Solving Equations

- [Solving One-Step Equations Using Properties of Equality](#)
- [Solving Multi-Step Equations](#)
- [Special Cases and Applications](#)
- [Formulas](#)

Solving Inequalities

- [Solving One-Step Inequalities](#)
- [Multi-Step Inequalities](#)

Compound Inequalities and Absolute Value

- [Compound Inequalities](#)
- [Equations and Inequalities and Absolute Value](#)



Unit 11: Exponents and Polynomials

Integer Exponents

- [Scientific Notation](#)

Polynomials With Single Variables

- [Introduction to Single Variable Polynomials](#)
- [Adding and Subtracting Polynomials](#)
- [Multiplying Polynomials](#)
- [Multiplying Special Cases](#)
- [Dividing by a Monomial](#)
- [Dividing by Binomials and Polynomials](#)

Polynomials With Several Variables

- [Simplifying and Evaluating Polynomials With More Than One Term](#)
- [Operations With Polynomials](#)



Unit 12: Factoring

Introduction to Factoring

- [Greatest Common Factor](#)

Solving Quadratic Equations

- [Solve Quadratic Equations by Factoring](#)



Unit 13: Graphing

Graphs and Applications

- [The Coordinate Plane](#)
- [Graphing Linear Equations](#)

Slope and Writing the Equation of a Line

- [Finding the Slope of a Line](#)
- [Writing the Equation of a Line](#)

continued...



Unit 14: Systems of Equations and Inequalities

Graphing Systems of Equations and Inequalities

- [Graphing Systems of Linear Equations](#)

Algebraic Methods to Solve Systems of Equations

- [The Substitution Method](#)
- [The Elimination Method](#)

Systems of Equations in Three or More Variables

- [Solving Systems of Three Variables](#)



Unit 15: Rational Expressions

Formulas and Variation

- [Rational Formulas and Variation](#)



Unit 16: Radical Expressions and Quadratic Equations

Solving Quadratic Equations

- [The Quadratic Formula](#)



Unit 17: Functions

Introduction to Functions

- [Identifying Functions](#)

Using Functions

- [Graphing Types of Functions](#)



Unit 18: Exponential and Logarithmic Functions

Exponential Functions

- [Introduction to Exponential Functions](#)



Unit 19: Trigonometry

Introduction to Trigonometric Functions

- [Unit Circle Trigonometry](#)

STUDY PATH 5: CASAS Level E



Unit 1: Whole Numbers

Adding and Subtracting Whole Numbers

- Adding Whole Numbers and Applications
- Subtracting Whole Numbers and Applications

Multiplying and Dividing Whole Numbers

- Multiplying Whole Numbers and Applications
- Dividing Whole Numbers and Applications

Properties of Whole Numbers

- Properties and Laws of Whole Numbers

Exponents, Square Roots, and Order of Operations

- Understanding Exponents and Square Roots



Unit 2: Fractions and Mixed Numbers

Adding and Subtracting Fractions and Mixed Numbers

- Subtracting Fractions and Mixed Numbers



Unit 3: Decimals

Decimal Operations

- Estimation With Decimals



Unit 4: Ratios, Rates, and Proportions

Ratios and Rates

- Simplifying Ratios and Rates

Proportions

- Understanding Proportions



Unit 5: Percents

Introduction to Percents

- Convert Percents, Decimals, and Fractions

Solving Percent Problems

- Solving Percent Problems



Unit 7: Geometry

Basic Geometric Concepts and Figures

- Properties of Angles
- Triangles
- The Pythagorean Theorem

Perimeter, Circumference, and Area

- Quadrilaterals
- Perimeter and Area
- Circles

Volume of Geometric Solids

- Solids



Unit 8: Concepts in Statistics

Statistical Graphs and Tables

- Graphing Data
- Other Types of Graphs

Measures of Center

- Measures of Center

Graphical Representations

- Use and Misuse of Graphical Representations

Probability

- Probability



Unit 10: Solving Equations and Inequalities

Solving Equations

- Solving Multi-Step Equations
- Formulas

Solving Inequalities

- Solving One-Step Inequalities
- Multi-Step Inequalities

Compound Inequalities and Absolute Value

- Compound Inequalities
- Equations and Inequalities and Absolute Value



Unit 11: Exponents and Polynomials

Integer Exponents

- Scientific Notation

Polynomials With Single Variables

- Introduction to Single Variable Polynomials
- Adding and Subtracting Polynomials
- Multiplying Polynomials
- Multiplying Special Cases
- Dividing by a Monomial
- Dividing by Binomials and Polynomials

Polynomials With Several Variables

- Operations With Polynomials



Unit 12: Factoring

Solving Quadratic Equations

- Solve Quadratic Equations by Factoring



Unit 13: Graphing

Graphs and Applications

- The Coordinate Plane
- Graphing Linear Equations

Slope and Writing the Equation of a Line

- Finding the Slope of a Line
- Writing the Equation of a Line



Unit 14: Systems of Equations and Inequalities

Graphing Systems of Equations and Inequalities

- Graphing Systems of Linear Equations
- Graphing Systems of Inequalities

Algebraic Methods to Solve Systems of Equations

- The Substitution Method
- The Elimination Method

Systems of Equations in Three or More Variables

- Solving Systems of Three Variables



Unit 15: Rational Expressions

Formulas and Variation

- Rational Formulas and Variation



Unit 16: Radical Expressions and Quadratic Equations

Solving Quadratic Equations

- The Quadratic Formula



Unit 17: Functions

Introduction to Functions

- Identifying Functions

Using Functions

- Graphing Types of Functions



Unit 18: Exponential and Logarithmic Functions

Exponential Functions

- Introduction to Exponential Functions