# 囲 Algebra1Coach.com 

## Curriculum Map

## Unit 1 - Foundations of Algebra

1-1 Variables and Expressions
1-2 Order of Operations and Evaluating Expressions
1-3 Real Numbers and the Number Line

1-4 Properties of Real Numbers
1-5 Adding and Subtracting Real Numbers
1-6 Multiplying and Dividing Real Numbers
1-7 The Distributive Property
1-8 An Introduction to Equations
1-9 Patterns, Equations, and Graphs

# 毕Algebra1Coach.com 

## Unit 2 - Solving Equations

## 2-1 Solving One-Step Equations

2-2 Solving Two-Step Equations
2-3 Solving Multi-Step Equations
2-4 Solving Equations with Variables on Both Sides
2-5 Literal Equations and Formulas
2-6 Ratios, Rates, and Conversions
2-7 Solving Proportions
2-8 Proportions and Similar Figures
2-9 Percentages
2-10 Change Expressed as a Percent

## 毕Algebra1Coach.com

## Unit 3 - Solving Inequalities

3-1 Inequalities and Their Graphs

3-2 Solving Inequalities Using Addition and Subtraction
3-3 Solving Inequalities Using Multiplication or Division

3-4 Solving Multi-Step Inequalities
3-5 Working with Wets

3-6 Compound Inequalities
3-7 Absolute Value Equations and Inequalities
3-8 Union and Intersection of Sets

## 品 Algebra1Coach.com

## Unit 4 - An Introduction to Functions

4-1 Using Graphs to Relate Two Quantities
4-2 Patterns and Linear Functions

4-3 Patterns and Nonlinear Functions
4-4 Graphing a Function Rule
4-5 Writing a Function Rule

4-6 Formalizing Relations and Functions
4-7 Arithmetic Sequences

# 羖 Algebra1Coach.com 

Unit 5 - Linear Functions
5-1 Rate of Change and Slope

## 5-2 Direct Variation

5-3 Slope-Intercept Form
5-4 Point-Slope Form
5-5 Standard Form
5-6 Parallel and Perpendicular Lines
5-7 Scatter Plots and Trend Lines
5-8 Graphing Absolute Value Functions

# 国Algebra1Coach.com 

## Unit 6 - Systems of Equations and Inequalities

## 6-1 Solving Systems by Graphing

6-2 Solving Systems Using Substitution
6-3 Solving Systems Using Elimination
6-4 Applications of Linear Systems
6-5 Linear Inequalities
6-6 Systems of Linear Inequalities

# 国Algebra1Coach.com 

## Unit 7 - Exponents and Exponential Functions

7-1 Zero and Negative Exponents
7-2 Multiplying Powers with the Same Base
7-3 More Multiplication Properties of Exponents
7-4 Division Properties of Exponents
7-5 Rational Exponents and Radicals
7-6 Exponential Functions

7-7 Exponential Growth and Decay

7-8 Geometric Sequences

# 国Algebra1Coach.com 

## Unit 8 - Polynomials and Factoring

8-1 Adding and Subtracting Polynomials
8-2 Multiplying and Factoring
8-3 Multiplying Binomials
8-4 Multiplying Special Cases
8-5 Factoring $x^{\wedge} 2+b x+c$

8-6 Factoring $a x^{\wedge} 2+b x+c$
8-7 Factoring Special Cases

8-8 Factoring by Grouping

# 国Algebra1Coach.com 

## Unit 9 - Quadratic Functions and Equations

9-1 Quadratic Graphs and Their Properties

9-2 Quadratic Functions
9-3 Solving Quadratic Equations
9-4 Factoring to Solve Quadratic Equations
9-5 Completing the Square

9-6 The Quadratic Formula and the Discriminant

9-7 Linear, Quadratic, and Exponential Models
9-8 Systems of Linear and Quadratic Equations
Unit 10 - Radical Expressions and Equations
10-1 Pythagorean Theorem
10-2 Simplifying Radicals
10-3 Operations with Radical Expressions
10-4 Solving Radical Equations
10-5 Graphing Square Root Functions
10-6 Trigonometric Ratios

# 国Algebra1Coach.com 

比 Algebra1Coach.com
Unit 11 - Rational Expressions and Functions
11-1 Simplifying Rational Expressions
11-2 Multiplying and Dividing Rational Expressions
11-3 Dividing Polynomials
11-4 Adding and Subtracting Rational Expressions
11-5 Solving Rational Expressions
11-6 Inverse Variation
11-7 Graphing Rational Functions

## 国Algebra1Coach.com

## Unit 12 - Data Analysis and Probability

12-1 Organizing Data Using Matrices
12-2 Frequency and Histograms

12-3 Measures of Central Tendency and Dispersion

12-4 Box-and-Whisker Plots

12-5 Samples and Surveys

12-6 Permutations and Combinations

12-7 Theoretical and Experimental Probability

12-8 Probability of Compound Events

# Get Access to 500+ Algebra 1 Printable Activities! CLICK HERE 

Or Ctrl+ Click this link: https://algebra1coach.com/join

