

algebra'scool™

TEACHING SYSTEM

Created by educators for educators, Algebra'scool is a dynamic teaching system covering a full year of Algebra I instruction.

This exciting and revolutionary series presents comprehensive mathematics curricula through effective and entertaining animations, lively graphics, concrete examples and real-world explanations—making it easy for students to grasp and understand the content.



Developed by BestQuest Teaching Systems, the Algebra'scool Teaching System provides comprehensive instructional material covering a complete Algebra I curriculum, including:

- operations and expressions
- linear equations
- inequalities
- functions
- polynomials
- quadratic equations
- rational and radical equations
- probability
- statistics

Consists of 99 algebra lessons accompanied by teacher's guides and student worksheets.

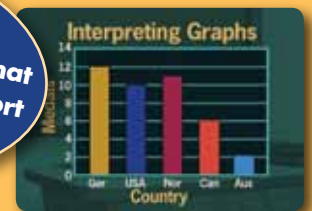
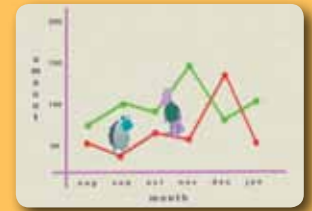
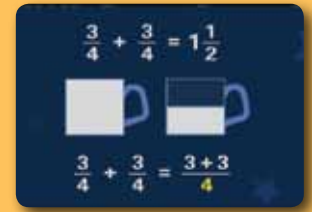
Includes 25 comprehensive, instructional videos that profile professionals who use algebra in their careers.

Supports standards from both the National Council of Teachers of Mathematics (NCTM) and state departments of education.

Provides all of the effective tools that a teacher needs to support student learning:

- Each video lesson comes with supplemental print materials that cover the curriculum and extend the video instruction.
- Blackline student worksheets include sections for lesson notes, guided practice, independent and additional practice, and manipulative exercises.
- Teacher's guides provide a complete manual accompanying the lessons, complete with teaching tips, answers to the student problems, glossaries of key terms and module tests.

Algebra'scool is a great resource that can be used to support STEM curricula



Algebra'scool Teaching System

Grades 7–12

124 titles

37 Hours of Content

2,993 Segments

A SAFARI Montage® system is required to purchase this content. Call for quote. (An additional hard drive may need to be purchased to accommodate this product.)

Title List on Reverse Side

0.14 0.15 0.16 0.17 0.18 0.19 0.20 0.21 0.22 0.23 0.24 0.25

$+ Bx + C = 0$ | $y = Mx + B$ | $Ax + By = C$ | $Ax^2 + Bx + C = 0$

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- 1.1 Defining Sets and Real Numbers
- 1.2 Simplifying Expressions With Integers
- 1.3 Simplifying Expressions With Rational Numbers
- 1.4 Simplifying Expressions With Exponents and Roots
- 1.5 Applying the Order of Operations
- 2.1 Using the Language of Algebra
- 2.2 Translating Word Phrases Into Algebraic Expressions
- 2.3 Identifying Algebraic Properties
- 2.4 Combining Like Terms
- 2.5 Evaluating Expressions
- 3.1 Identifying Properties of Equality
- 3.2 Solving Equations by Inspection
- 3.3 Solving One-Step Linear Equations
- 3.4 Solving Two-Step Linear Equations
- 3.5 Solving Multi-Step Linear Equations
- 3.6 Rewriting Formulas Applications
- 4.1 Translating Sentences Into Algebraic Equations
- 4.2 Solving Consumer/Business Problems Using Equations of One Variable
- 4.3 Solving Geometry Problems Using Equations of One Variable
- 4.4 Solving Mixture and Rate Problems Using Equations of One Variable
- 5.1 Solving Linear Inequalities by Inspection
- 5.2 Solving One-Step Linear Inequalities
- 5.3 Solving Two-Step Linear Inequalities
- 5.4 Solving Multi-Step Linear Inequalities
- 5.5 Solving Conjunction Inequalities
- 5.6 Solving Disjunction Inequalities
- 5.7 Solving Problems Using Inequalities of One Variable
- 6.1 Solving Basic Absolute Value Equations
- 6.2 Solving Advanced Absolute Value Equations
- 6.3 Solving Inequalities Using "Absolute Value Is Less Than"
- 6.4 Solving Inequalities Using "Absolute Value Is Greater Than"
- 6.5 Solving Problems Using Absolute Value Equations and Inequalities
- 7.1 Defining Linear Equations of Two Variables and Their Solutions
- 7.2 Graphing Linear Equations of Two Variables
- 7.3 Graphing Linear Inequalities of Two Variables
- 7.4 Solving Consumer/Business Problems Using Linear Equations and Inequalities of Two Variables
- 8.1 Finding Slope
- 8.2 Writing Equations of Lines, Given the Slope and y-Intercept
- 8.3 Writing Equations of Lines, Given a Point and the Slope or Two Points
- 8.4 Solving Linear Equations in Two Variables When Parameters Are Changed
- 9.1 Defining Relations and Functions
- 9.2 Evaluating Functions
- 9.3 Writing Functions From Patterns
- 9.4 Graphing Functions
- 9.5 Solving Problems Using Functions
- 9.6 Evaluating Composite Functions
- 10.1 Solving Systems of Linear Equations by Graphing
- 10.2 Solving Systems of Linear Equations by Elimination
- 10.3 Solving Systems of Linear Equations by Substitution
- 10.4 Solving Systems of Linear Inequalities by Graphing

- 10.5 Solving Problems Using Systems of Linear Equations and Inequalities
- 11.1 Applying Rules of Exponents
- 11.2 Using Scientific Notation Calculator Exercises
- 11.3 Adding and Subtracting Polynomials
- 11.4 Multiplying Monomials and Binomials
- 11.5 Multiplying Polynomials
- 11.6 Dividing Polynomials by Monomials
- 11.7 Dividing Polynomials Using Long Division
- 12.1 Factoring by Removing the Greatest Common Factor
- 12.2 Factoring by Grouping
- 12.3 Factoring the Difference of Two Squares
- 12.4 Factoring $x^2 + bx + c$
- 12.5 Factoring $ax^2 + bx + c$
- 12.6 Factoring Using Several Methods
- 12.7 Dividing Polynomials Using Factoring
- 13.1 Defining Quadratic Equations of One Variable
- 13.2 Solving Quadratic Equations by Evaluating Square Roots
- 13.3 Solving Quadratic Equations by Factoring
- 13.4 Solving Quadratic Equations by Completing the Square
- 13.5 Solving Quadratic Equations by the Quadratic Formula
- 13.6 Solving Problems Using Quadratic Equations of One Variable
- 14.1 Graphing Simple Quadratic Relations
- 14.2 Graphing Quadratic Relations by Analysis
- 14.3 Solving Problems Using Quadratic Graphs
- 15.1 Finding Restricted Values of Rational Expressions
- 15.2 Simplifying Rational Expressions
- 15.3 Multiplying and Dividing Rational Expressions
- 15.4 Adding and Subtracting Rational Expressions
- 16.1 Solving Rational Equations Challenge Problems
- 16.2 Solving Problems Using Direct Variation
- 16.3 Solving Problems Using Inverse Variation
- 16.4 Solving Various Types of Problems Using Rational Equations
- 17.1 Simplifying Radicals
- 17.2 Adding and Subtracting Radicals
- 17.3 Multiplying Radicals
- 17.4 Dividing Radicals
- 18.1 Solving One-Step Radical Equations
- 18.2 Solving Multi-Step Radical Equations
- 18.3 Solving Problems Using Radical Equations
- 18.4 Solving Problems Using the Distance and Midpoint Formulas
- 19.1 Finding Mean, Median and Mode
- 19.2 Interpreting Graphs of Data
- 19.3 Analyzing and Describing Graphs
- 19.4 Finding a Line of Best Fit
- 19.5 Solving Statistics Problems
- 20.1 Finding Permutations and Combinations
- 20.2 Solving Basic Probability Problems
- 20.3 Solving Advanced Probability Problems
- 20.4 Solving Discrete Mathematics Problems

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- Module 3** Solving Linear Equations of One Variable: Astronomers
- Module 4** Solving Problems Using Linear Equations of One Variable: Forestry Service
- Module 5** Solving Linear Equations of One Variable: Skateboard Park Designers
- Module 6** Solving Absolute Value Equations and Inequalities: Pyrotechnicians
- Module 7** Solving Linear Equations and Inequalities of Two Variables: Music Amplifier Designer
- Module 7** Solving Linear Equations and Inequalities of Two Variables: Stockbroker
- Module 8** Writing Linear Equations of Two Variables: Thrill Ride Engineers
- Module 9** Using Functions: Performance Car Designers
- Module 9** Using Functions: JPL Scientist
- Module 10** Solving Systems of Linear Equations and Inequalities: Jet Fighter Pilot
- Module 11** Simplifying Systems of Linear Equations and Inequalities: Civil/Structural Engineers
- Module 11** Simplifying Systems of Linear Equations and Inequalities: Signs of the Times Square Designers
- Module 12** Simplifying Algebraic Expressions by Factoring Polynomials: Brookhaven National Lab Scientist
- Module 12** Simplifying Algebraic Expressions by Factoring Polynomials: Steve Snyder
- Module 13** Solving Quadratic Equations of One Variable: Rose Parade Float Designers
- Module 14** Graphing Quadratic Relations: Layout/Surveyor
- Module 15** Simplifying Rational Expressions: Bronx Zoo Electrical Engineer
- Module 16** Solving Rational Equations: Water Quality Chemist
- Module 17** Simplifying Radical Expressions: New York Film Maker
- Module 18** Solving Radical Equations: Criminologist
- Module 19** Analyzing Data and Statistics: G.E. Wind Engineer
- Module 20** Solving Problems Using Probability, Statistics and Discrete Math: U.S. Coast Guard Cadets

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$$x^2 + Bx + C = 0$$

$$y = Mx + B$$

$$Ax + By = C$$

$$Ax^2 + Bx + C = 0$$

$$x^2 - 2x + 3x - 6 =$$