

Algebra 1A

Unit 1—Week 1

Day	Activity
1	Pretest—Unit 1
2	Odd and Even Numbers
	Prime and Composite Numbers
3	Identifying and Using Properties of Operations on Real Numbers
4	Exponents: Exponential Form
	Exponents: Expanded Form
5	Exponents: Product Rule
	Exponents: Power Rule

Unit 1—Week 2

Day	Activity
1	The Additive Inverse of Integers
2	Adding Integers
3	Subtracting Integers
4	Multiplying Integers
5	Dividing Integers

Unit 1—Week 3

Day	Activity
1	Square Roots of Perfect Squares
2	Square Roots of Imperfect Squares
3	Multiplying Common Fractions
4	Adding and Subtracting Fractions
5	Adding and Subtracting Mixed Numbers

Unit 1—Week 4

Day	Activity
1	Dividing Fractions
2	Multiplying and Dividing Mixed Numbers
	Using Basic Number Ideas
3	Mental Math with Whole Numbers and Decimals
4	Mental Math with Fractions and Percents
5	Posttest—Unit 1

Unit 2—Week 1	
Day	Activity
1	Pretest—Unit 2
2	Visualizing Percents Less than 1%
3	Converting Percents Less than 1% to Decimals
4	Converting a Decimal to a Fraction of a Percent
5	Finding the Amount with Percents Less than 1%

Unit 2—Week 2	
Day	Activity
1	Visualizing Percents Greater than 100%
	Converting Percents Greater than 100% to Decimals
2	Converting a Number Greater than 1 to a Percent
3	Solving Problems with Percents
4	Order of Operations
5	Expressions in 1 Variable

Unit 2—Week 3	
Day	Activity
1	Expressions in 2 or More Variables
2	Determining the Truth Value of a Statement
3	Adding Monomials
4	Subtracting Monomials
5	Multiplying Monomials
	Dividing Monomials

Unit 2—Week 4	
Day	Activity
1	Adding Binomials and Monomials
2	Subtracting Binomials and Monomials
3	Multiplying Binomials and Monomials
4	Dividing Binomials by Monomials
5	Posttest—Unit 2

Unit 3—Week 1	
Day	Activity
1	Pretest—Unit 3
2	Linear Equations in 1 Variable: Solving by Inspection
3	Linear Equations in 1 Variable: Isolating the Variable
4	Linear Inequalities in 1 Variable, Part 1
	Linear Inequalities in 1 Variable, Part 2
5	More Difficult Linear Inequalities in 1 Variable

Unit 3—Week 2	
Day	Activity
1	Literal Equations
2	Adapting and Using Formulas
3	Using Linear Equations to Solve Problems
4	Special Quadratic Equations, Part 1
5	Special Quadratic Equations, Part 2

Unit 3—Week 3	
Day	Activity
1	Using Quadratic Equations to Solve Problems
2	Coordinate Plane
3	Identifying Points on a Coordinate Plane
4	Ordered Pairs as Solutions of Linear Equations
5	Graphing Linear Equations in Two Variables

Unit 3—Week 4	
Day	Activity
1	Graphs, Slopes, and y -Intercepts
2	Finding x - and y -Intercepts of a Linear Equation
	Equations, Graphs, Slopes, and y -Intercepts
3	Slope-Intercept Form
	Point-Slope Form
4	Parallel and Perpendicular Lines and Their Slopes
	Interpreting Graphs to Solve Problems
5	Posttest—Unit 3

Unit 4—Week 1	
Day	Activity
1	Pretest—Unit 4
2	Approximating a Line of Best Fit
3	Using the Distance Formula
4	Using the Midpoint Formula
5	Graphing Linear Inequalities in Two Variables

Unit 4—Week 2	
Day	Activity
1	Solving and Graphing Systems of Equations
2	Solving Systems of Linear Inequalities by Graphing
3	Solving Problems with Systems of Linear Equations
4	Mean, Median, and Mode
5	Solving Problems with Mean, Median, and Mode

Unit 4—Week 3	
Day	Activity
1	Creating and Interpreting Stem-and-Leaf Plots
	Creating and Interpreting Box-and-Whisker Plots
2	Creating and Interpreting Circle Graphs
3	Probability and Possible Outcomes
4	Probability of an Event
5	Solving Problems with Probability

Unit 4—Week 4	
Day	Activity
1	Estimation Basics
2	Estimation by Clustering
3	Scaling and Proportion, Part 1
4	Scaling and Proportion, Part 2
5	Patterns and Sequences

Unit 4—Week 5	
Day	Activity
1	Functions
2	Determining Whether a Relation is a Function
	Finding the Domain and Range of a Function
3	Describing Functions with Equations, Tables, and Graphs
	Linear Patterns
4	Posttest—Unit 4
5	End-of-Semester Test—Algebra 1A

Algebra 1B

Unit 1—Week 1	
Day	Activity
1	Pretest—Unit 1
2	Additive Inverse of an Integer
3	Integer Sum
4	Integer Difference
5	Integer Product

Unit 1—Week 2	
Day	Activity
1	Integer Quotient
2	Adding Fractions
3	Subtracting Fractions
4	Multiplicative Inverse of a Fraction
5	Product of Fractions

Unit 1—Week 2	
Day	Activity
1	Integer Quotient
2	Adding Fractions
3	Subtracting Fractions
4	Multiplicative Inverse of a Fraction
5	Product of Fractions

Unit 1—Week 3	
Day	Activity
1	Quotient of Fractions
2	Basic Set Concepts: Elements in a Set
3	Basic Set Concepts: Finite or Infinite
4	Basic Set Concepts: Subsets
5	Basic Set Concepts: Roster and Set-builder Forms

Unit 1—Week 4	
Day	Activity
1	Union of Sets
2	Intersection of Sets
3	Review: Fractions and Sets
4	Positive and Negative Exponents
5	Integer Exponents and the Product Rule

Unit 1—Week 5	
Day	Activity
1	Integer Exponents and the Quotient Rule
2	Integer Exponents and the Power Rule, Part 1
	Integer Exponents and the Power Rule, Part 2
3	Applying Laws of Exponents to Simplify Expressions
4	Square Roots of Integers
5	Multiplication Rule for Radicals

Unit 1—Week 6	
Day	Activity
1	Division Rule for Radicals
2	Simplifying Square Roots Using Factors
3	Simplifying Radicals, Part 1
	Simplifying Radicals, Part 2
4	Review: Exponents and Radicals
5	Posttest—Unit 1

Unit 2—Week 1	
Day	Activity
1	Pretest—Unit 2
2	Classifying Polynomials
3	Additive Inverse of a Monomial
4	Monomial Sum
5	Monomial Difference

Unit 2—Week 2	
Day	Activity
1	Monomial Product
2	Monomial Quotient
3	Finding Powers and Roots of Monomials
4	Binomial Sum
5	Additive Inverse of a Binomial

Unit 2—Week 3	
Day	Activity
1	Binomial Difference
2	Value of a Polynomial
3	Polynomial Sum
4	Polynomial Difference
5	Product of a Monomial and Polynomial

Unit 2—Week 4	
Day	Activity
1	Simplifying Polynomial Expressions
2	Product of Polynomials
3	Quotient of a Monomial and a Polynomial
4	Quotient of a Binomial and a Polynomial
5	Greatest Common Factors of Monomials

Unit 2—Week 5	
Day	Activity
1	Monomial Factors of Polynomials
2	Binomial Factors of Polynomials, Part 1
3	Binomial Factors of Polynomials, Part 2
4	Factoring the Difference of 2 Squares
5	Factoring Perfect Square Trinomials

Unit 2—Week 6	
Day	Activity
1	Factoring Trinomials, Part 1
2	Factoring Trinomials, Part 2
3	Review: Polynomials and Factoring
4	Review: Polynomials and Factoring (continued)
5	Posttest—Unit 2

Unit 3—Week 1	
Day	Activity
1	Pretest—Unit 3
2	Simple Equations in 1 Variable: Using Inspection
3	Simple Equations in 1 Variable: Isolating the Variable
4	More Difficult Linear Equations in 1 Variable
5	Solving Multistep Equations Containing Radicals

Unit 3—Week 2	
Day	Activity
1	Solving Algebraic Proportions
2	Solving and Graphing Equations in 1 Variable
3	Solving Problems With Linear Equations in 1 Variable
4	Absolute Value of a Number
5	Equations with Absolute Values

Unit 3—Week 3	
Day	Activity
1	Graphing a Solution Set on a Number Line
2	Linear Inequalities in 1 Variable, Part 1
3	Linear Inequalities in 1 Variable, Part 2
4	Linear Inequalities in 1 Variable, Part 3
5	Solving Absolute Value Inequalities

Unit 3—Week 4	
Day	Activity
1	Solving Linear Systems Using Substitution
2	Solving Linear Systems Using Linear Combinations
3	Solving Simple Quadratic Equations
4	Solving Quadratic Equations by Factoring, Part 1
5	Solving Quadratic Equations by Factoring, Part 2

Unit 3—Week 5	
Day	Activity
1	Solving Quadratic Equations by Factoring, Part 3
2	Quadratic Formula
3	Solving Problems with Quadratic Equations
4	Review: Equations and Inequalities
5	Posttest—Unit 3