

# Algebra 1 Placemat

## 1<sup>st</sup> Six Weeks

### ❖ **Unit 1: Algebraic Expressions**

- 1 – 1 Algebraic Properties
- 1 – 2 Simplifying Expressions
- 1 – 3 Distributing a Negative
- 1 – 4 Evaluating Expression
- 1 – 5 Writing Algebraic Expression

### ❖ **Unit 2: Linear Equations and Inequalities**

- 2 – 1 Solving One & Two Step Equations
- 2 – 2 Solving Multi – Step Equations
- 2 – 3 Solving Equations with Variables on Both Sides
- 2 – 4 Special Cases of Solving Equations
- 2 – 5 Writing and Applying Equations
- 2 – 6 Solving Inequalities

## 2<sup>nd</sup> Six Weeks

### ❖ **Unit 3: The Study of Functions**

- 3 – 1 Characteristics of Functions
- 3 – 2 Functions Notation
- 3 – 3 Tables and Graphs of Functions
- 3 – 4 Direct and Inverse Variation
- 3 – 5 Classifying Functions

### ❖ **Unit 4: Investigating Linear Functions**

- 4 – 1 Introduction to Linear Functions
- 4 – 2 Finding Slope from an Equation
- 4 – 3 Finding Slope from a Graph
- 4 – 4 Finding Slope from a Table
- 4 – 5 Finding Slope from Two Points
- 4 – 6 Special Lines and Slopes
- 4 – 7 Investigating Intercepts

## 3<sup>rd</sup> Six Weeks

### ❖ **Unit 5: Linear Functions and Inequalities**

- 5 – 1 Graphing Linear Functions
- 5 – 2 Graphing Inequalities
- 5 – 3 Writing Linear Functions
- 5 – 4 Parallel and Perpendicular Lines
- 5 – 5 Linear Applications

### ❖ **Unit 6: Linear Systems of Equations**

- 6 – 1 Introduction to Systems of Equations
- 6 – 2 Solving Systems by Graphing
- 6 – 3 Solving Systems using Substitution
- 6 – 4 Solving Systems using Elimination
- 6 – 5 Formulating Systems of Equations
- 6 – 6 Systems of Inequalities

#### **4<sup>th</sup> Six Weeks**

##### **❖ *Unit 7: Exponents and Polynomials***

- 7 – 1 Rules of Exponents
- 7 – 2 Polynomial Operations Part 1
- 7 – 3 Polynomial Operations Part 2
- 7 – 4 Polynomial Operations Part 3
- 7 – 5 Factoring Polynomials Part 1
- 7 – 6 Factoring Polynomials Part 2
- 7 – 7 Factoring Polynomials Part 3
- 7 – 8 Solving by Factoring

#### **5<sup>th</sup> Six Weeks**

##### **❖ *Chapter 8: Quadratic Expressions and Equations***

- 8 – 1 Anatomy of Quadratics
- 8 – 2 Graphing Quadratics
- 8 – 3 Linear VS Quadratic Functions
- 8 – 4 Quadratic Transformations
- 8 – 5 Solving Quadratic Functions by Factoring {Review}
- 8 – 6 Solving Quadratic Functions using the Quadratic Formula

#### **6<sup>th</sup> Six Weeks**

- ❖ EOC Review
- ❖ Chapter 9: Radical Functions and Geometry
  - 9 – 1 Simplifying Radicals
  - 9 – 2 Pythagorean Theorem
  - 9 – 3 Perimeter
  - 9 – 4 Area
  - 9 – 5 Surface Area
  - 9 – 6 Volume