



**Exam for Credit Information**

**Algebra 1 Syllabus**

*Only a Scientific Calculator will be allowed for this exam*

Units of Study

Quarter 1:

- Solving Linear Equations including simple, multi-step, with variables on both sides, and absolute value.
- Solving and Graphing Linear Inequalities including simple, multi-step, compound, and absolute value.

Quarter 2:

- Linear Functions and Function Notation
- Graphing Linear Functions in slope-intercept, standard, and point-slope forms.
- Graphing Absolute Value Equations
- Writing Linear Functions in slope-intercept and point-slope form
- Writing Equations of Parallel and Perpendicular Lines
- Solving Systems of Linear Equations

Quarter 3:

- Properties of Exponents
- Exponential Functions
- Exponential Growth and Decay
- Adding and Subtracting Polynomials
- Multiplying Polynomials
- Factoring Polynomials

Quarter 4:

- Graphing Quadratic Functions
- Comparing Linear, Exponential, and Quadratic Functions
- Properties of Radicals
- Solving Quadratic Equations Using Square Roots and the Quadratic Formula
- Graphing Square Root Functions
- Solving Radical Equations
- Data Analysis and Displays

Resource

- Algebra 1 – Big Ideas Bridge to Success (2015)