

## Algebra 1B Map

This is a one semester course which earns  $\frac{1}{2}$  credit of math. This class is the second half of the Algebra 1 sequence. Successful completion of this course allows students to take Geometry or Algebra 2A.

6. Exponents and Polynomials
  - 6.1 Integer Exponents
  - 6.2 rational Exponents
  - 6.3 Polynomials
  - 6.4 Adding and Subtracting Polynomials
  - 6.5 Multiplying Polynomials
  - 6.6 Special Products of Binomials
  
7. Factoring Polynomials
  - 7.1 Factors and Greatest Common Factors
  - 7.2 Factoring by GCF
  - 7.3 Factoring  $x^2 + bx + c$
  - 7.4 Factoring  $ax^2 + bx + c$
  - 7.5 Factoring Special Products
  - 7.6 Choosing a Factoring Method
  
8. Quadratic Functions and Equations
  - 8.1 Identifying Quadratic Functions
  - 8.2 Characteristics of Quadratic Functions
  - 8.3 Graphing Quadratic Functions
  - 8.4 Transforming Quadratic Functions
  - 8.5 Solving Quadratic Equations by Graphing
  - 8.6 Solving Quadratic Equations by Factoring
  - 8.7 Solving Quadratic Equations by Using Square Roots
  - 8.8 Completing the Square
  - 8.9 The Quadratic Formula and the Discriminant
  
9. Exponential Functions
  - 9.1 Geometric Sequences
  - 9.2 Exponential Functions
  - 9.3 Exponential Growth and Decay
  - 9.4 Linear, Quadratic, and Exponential Models
  - 9.5 Comparing Functions

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- 10. Data Analysis and Probability
  - 10.1 Organizing and Displaying Data
  - 10.2 Frequency and Histograms
  - 10.3 Data Distributions
  - 10.4 Misleading Graphs and Statistics
  - 10.5 Experimental Probability
  - 10.6 Theoretical Probability
  - 10.7 Independent and Dependent Events