

Expectations and Outcomes

Grade Level/Course: 9-12

Content Area: Math

Unit Title	Guarantees
Unit 1: Equations	<ul style="list-style-type: none"> • Evaluate expressions by substituting integer values. • Solve one and two step equations. • Solve equations by graphing. • Solve equations with variables on both sides. • Solve for a variable
Unit 2: Graphing and Writing Inequalities	<ul style="list-style-type: none"> • Solving one and two step inequalities. • Graphing and understanding solutions to inequalities. • Have the ability to translate words into symbols and symbols into words.
Unit 3: Functions	<ul style="list-style-type: none"> • Students can match simple graphs to functions • Graphing a relationship • Represent a situation as a list of ordered pairs, table, graphs, mapping diagrams, and symbolic notations. • Understand the dependent and independent variable in an application
Unit 4: Linear Functions	<ul style="list-style-type: none"> • Identify a constant rate of change in a table or graph • Graphing linear functions in a real-world setting • Compute slope and y-intercept and understand/ describe their meanings
Unit 5: Systems of Equations and Inequalities	<ul style="list-style-type: none"> • Understand what a “system” means • Understand what a solution to a given system represents. • Find and interpret a solution by graphing (with or without use of technology) • Solve and find a solution to a system of inequalities by graphing.
Unit 6: Exponents and Polynomials	<ul style="list-style-type: none"> • Be able to simplify expressions using properties of exponents. • Combine like terms • Understand proper vocabulary pertaining to degree and terms of classifying polynomials • Perform operations with polynomials.
Unit 7: Factoring Polynomials	<ul style="list-style-type: none"> • Identify a polynomial’s greatest common factor.

Unit Title	Guarantees
	<ul style="list-style-type: none"> • Factor a quadratic into two binomials.
Unit 8: Quadratics	<ul style="list-style-type: none"> • Graph a quadratic and be able to identify the maximum and minimum • Identify zeros and understand the context. • Solve a quadratic algebraically and graphically (quadratic formula) • Solve quadratics by using square roots.
Unit 9: Exponential Functions	<ul style="list-style-type: none"> • Identify an exponential function from its table. • Write exponential functions for both growth and decay.
Unit 10: Data Analysis and Probability	<ul style="list-style-type: none"> • Organize data into tables, matrices, and graphs • Choose an appropriate display of information (histogram, box and whisker, etc) • Understand the various measures of central tendency • Determine probability of events (single or multiple)