

Expectations and Outcomes

Grade Level/Course: 10-12

Content Area: Math

Unit Title	Guarantees
Unit 1: Data Analysis and Probability	<ul style="list-style-type: none"> • Collect and display data appropriately using tables, stem and leaf plots, box and whisker plots, pie charts, and histograms • Read and understand each type of display • Familiarize with measures of central tendency
Unit 2: Variables, Expressions, and Integers	<ul style="list-style-type: none"> • Evaluate variable expressions • Order of operations. • Understand basic properties of exponents and integers • Understanding of terminology and properties of the coordinate plane
Unit 3: Solving Equations	<ul style="list-style-type: none"> • Simplify expressions using addition, multiplication and distribution. • Creating and solving one-step equations • Have the ability to describe solutions and meaning of variables in real-life applications. • Number operations with decimals.
Unit 4: Multi-step Equations and Inequalities	<ul style="list-style-type: none"> • Write and solve two step equations. • Use the distributive property. • Write and solve inequalities. • Graph inequalities on a number line.
Unit 5: Factors, Fractions, and Exponents	<ul style="list-style-type: none"> • Ability to create a prime factorization • Determine gcd and lcm • Basic operations with fractions (add, subtract, multiply, divide) • Manufacture equivalent fractions • Understand properties of exponents (negative and zero exponent) • Scientific notation and its properties.
Unit 6: Rational Numbers and Equations	<ul style="list-style-type: none"> • Understand the definition of a rational number • Be able to represent a number as a decimal, fraction, mixed number, percent, etc • Be able to perform operations with decimals and fractions

Unit Title	Guarantees
	<ul style="list-style-type: none"> • Solving equations
Unit 7: Ratio, Proportions and Probability	<ul style="list-style-type: none"> • Write and use ratios and unit rates • Create and solve proportions. • Understand the relationship between ratios and proportions • Identify and solve problems involving proportions. • Find unknown sides using similarity. • Determine the probability of a simple or compound event
Unit 8: Percent's	<ul style="list-style-type: none"> • Definition of percent • Find the percent of a given number • Percent change in a quantity • $I = prt$
Unit 9: 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 10: Real Numbers and Right Triangles	<ul style="list-style-type: none"> • Simplifying square roots into decimals and simplest radical form • Understanding and using the pythagorean theorem to solve for right triangles • Compare and order real numbers • Understand and apply distance, midpoint, and slope formulas