Unit 1: Real Numbers and Variable Expressions


Unit 2: Solving Equations and Inequalities

Students will be capable of solving one-step and multiple-step variable linear equations. Students will also be able to translate variable expressions into simplified verbal expressions and solve. In addition, students will be able to complete consecutive integer problems. Students will be capable of completing geometry problems including perimeter, angles formed by intersecting lines, and the angles of a triangle. Students will also use the discount and markup formulas to determine components of the equations. Finally, students will be capable of determining the union and intersection of one-variable inequalities as well as solving those inequalities.

## Unit 3: Linear Functions and Inequalities in Two Variables

Students will be capable of plotting points on a rectangular coordinate system. Students will also be capable of finding the length and midpoint of a line segment. In addition, students will be able to find the slope of linear functions and graph linear functions using a table, $x$ - and $y$-intercepts, and slope-intercept form.
Students will also be capable of determining the equation of a line given a point and the slope, or two points as well as determining the equation of parallel and perpendicular lines. Finally, students will be capable of graphing the solution set of inequalities in two variables.

Unit 4: Systems of Equations and Inequalities


## Unit 5: Polynomials



## Unit 6: Factoring



## Unit 7: Quadratic Functions



Unit 9: Matrices and Determinants


