

Eustace High School

Algebra II Objectives

1ST Six Weeks

Review real number operations.

Write, graph and solve: linear, absolute value, literal and inequality equations.

Interpret tables, graphs and word problems.

Discuss correlation.

2ND Six Weeks

Write and solve linear systems using graphs, substitution, combination, and Cramer's method.

Discuss, formulate, and solve functions using technology, factoring and algebra tiles.

Factor, graph and solve quadratic equations/parabolas.

Discuss domain and range of functions.

3RD Six Weeks

Simplify and solve radical equations.

Solve quadratic equations using completing the square, quadratic formula, factoring, and calculator-based graphing.

Simplify and discuss imaginary solutions.

4TH Six Weeks

Divide polynomials using long and synthetic division.

Find all real zeros, formulate the polynomial.

Simplify and solve rational equations that include addition, subtraction, multiplication, and division.

Introduction to Trigonometry:
Right triangles, law of cosines, and law of sines.

5TH Six Weeks

Graph, formulate and solve conic sections including: parabolas, circles, ellipses, and hyperbolas.

Review geometric principles such as Perimeter, area, surface area, midpoint, distance, word problems, congruence, similarity, relations, ratios, parallel, perpendicular, mappings, triangles, quadrilaterals, arcs, chords, geometric mean, central angles and other angles.

6TH Six Weeks

Review word problem solving techniques, test taking skills, etc.

Simplify and solve complex numbers.

Simplify and solve exponential functions.