

Secondary Mathematics I

Students in Secondary Mathematics I will deepen and extend understanding of linear relationships, in part by contrasting them with exponential phenomenon, and in part by applying linear models to data that exhibit a linear trend. Students will use properties and theorems involving congruent figures to deepen and extend understanding of geometric knowledge. Algebraic and geometric ideas are tied together. Students will experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

Secondary Mathematics II

Students in Secondary Mathematics II will focus on quadratic expressions, equations, and functions, extend the set of rational numbers to the set of complex numbers, link probability and data through conditional probability and counting methods, study similarity and right triangle trigonometry, and study circles with their quadratic algebraic representations.

Honors students will also represent complex numbers and their operations on the complex plane, solve systems of equations, prove and apply trigonometric identities, express conic sections algebraically, and solve problems using volume measurements.

Geology

The Geology course is designed to lead the student toward a successful understanding of introductory Geologic science. The goal of this course is to provide students with a basic understanding of geology, geologic processes and how geology impacts our society. The curriculum investigates the Earth's formation, Earth materials and processes, available and important resources, changing landscapes and climate, catastrophic events, and society's attempt to deal with our ever changing world. Students can make real-world connections by examining our role in the solar system, man's effect upon our mineral and rock resources, seismic events, landforms and how a changing climate has the ability to alter life as we know it, thus applying their knowledge to these real-world situations.