Precalculus

Course Syllabus 2023-2024

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Course Description

Pre-Calculus focuses on standards to prepare students for a more intense study of mathematics. The critical areas organized in eight units delve deeper into content from previous courses. The study of circles and parabolas is extended to include other conics such as ellipses and hyperbolas. Trigonometric functions are introduced and developed to include inverses, general triangles and identities. Matrices provide an organizational structure in which to represent and solve complex problems. Students expand the concepts of complex numbers and the coordinate plane to represent and operate upon vectors. Probability rounds out the course using counting methods, including their use in making and evaluating decisions. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

Course Outline: The Pre-Calculus curriculum is composed of 7 units.

Units of Study	Time Length
Unit 1: Modeling with Rational and Piecewise-Defined Functions	5 Weeks
Unit 2: Modeling with Trigonometric Expressions and Functions	6 Weeks
Unit 3: Applying Trigonometric Identities and Equations	5 Weeks
Unit 4: Modeling with Conic sections and Polar Equations	5 Weeks
Unit 5: Modeling with Vector Quantities	5 Weeks
Unit 6: Modeling with Sequences and Series	5 Weeks
Unit 7: Culminating Capstone Unit	1-2 Weeks