

# ***Norwood Public Schools***

## ***Curriculum Overview***

### ***Junior Precalculus/Trigonometry (230, 244)***

#### **Description:**

Precalculus/Trigonometry extends the ideas from the Algebra II course. It is a year-long junior course that is taught at the honors and college-prep levels. The aims and objectives of precalculus/trigonometry are to continue the growth of the total concept of reasoning and mathematical knowledge in the mind of the student and to provide for the student a sound basis for the mathematics encountered in calculus. The major components of this course will help prepare students to continue their mathematics education at Norwood High School in order to become college and career ready. A variety of presentation and assessment techniques will be utilized. The major topics include: linear, quadratic, polynomial, exponential, logarithmic, trigonometric functions; inverse functions; analytical trigonometry; conics; parametric equations; polar equations; sequences and series.

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#### **Learning Experiences:**

Students will experience learning through many formats in addition to routine classroom experiences. The variety of technology utilized includes the use of the ENO Board in conjunction with software programs such as Easiteach and Workspace. Graphing calculators will be routinely utilized.

#### **Course Content:**

Chapter 1: Functions and Their Graphs

Chapter 2: Polynomial and Rational Functions

Chapter 3: Exponential and Logarithmic Functions

Chapter 4: Trigonometry

Chapter 5: Analytic Trigonometry

Chapter 6: Additional Topics in Trigonometry

Chapter 10: Topics in Analytic Geometry

Chapter 9: Sequences, Series, and Probability

Note: The course has been aligned to satisfy the requirements of the Common Core Standards for Mathematics and the order of topics covered may vary from the textbook. The curriculum map indicates the general timeline and sequencing.

#### **Resources Used:**

Houghton Mifflin Precalculus, 2004, ISBN: 0-618-31436-9

Several mathematics software programs and websites.