

Southern Regional High School

Manahawkin, New Jersey

Course Syllabus

Department: Math

Course: Trigonometry/Precalculus

Marking Period 1

Topics/Units to be covered:

- Classroom Expectations/Grading
- Law of Sines and Cosines
- Right Triangle Trigonometry
- Angle measure in radians
- Unit Circle
- Trigonometric Functions on the Unit Circle and of any angle
- Quarterly

Marking Period 2

Topics/Units to be covered:

- Graphs of sine, cosine, tangent, cotangent, secant and cosecant
- Inverse Trig functions
- Fundamental Trigonometric Identities
- Verifying Trigonometric Identities
- Solving Trigonometric Equations
- Sum, Difference, Multiple Angle and Power Reducing Formulas
- Quarterly

Marking Period 3

Topics/Units to be covered:

- Counting Principles and Probability
- Sequences and Series
- Exponential Functions and their graphs
- Logarithmic Functions and their graphs
- Properties of Logs
- Solving Exponential and Logarithmic Equations and Applications
- Quarterly

Marking Period 4

Topics/Units to be covered:

- Quadratic Functions
- Polynomial Functions of Higher Degree
- Long and Synthetic Division to find zeros of polynomials
- Complex Numbers
- Rational Functions and Partial Fractions
- Arithmetic and Geometric Sequences and Series
- Conics
- Final exam