

Southern Regional High School

Manahawkin, New Jersey

Course Syllabus

Department: Math

Course: Honors Trigonometry/Precalculus

Marking Period 1

Topics/Units to be covered:

- Classroom Expectations/Grading
- Right Triangle Trigonometry
- Law of Sines and Cosines
- Unit Circle & Radian Measure
- Trigonometric Word Problems
- 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
- Geometric & Arithmetic Sequences and Series
- Summation Notation
- Exponential, Logarithmic, Power, & Logistic Functions and their Graphs
- Properties of Logarithms
- Solving Exponential, Logarithmic, Power, & Logistic Equations and Applications
- Quarterly

Marking Period 4

Topics/Units to be covered:

- Review of Quadratic Functions, Complex Numbers, & Long/Synthetic Division
- Binomial Expansion
- Polynomial Functions of Higher Degree
- Rational Functions and Partial Fractions
- Limits
- Conics
- Final exam