

TRIGONOMETRY SCOPE AND SEQUENCE

Semester 1

Unit 1: Prerequisite Functions (September)

(Solving equations, functions, domain, range,)

Unit 2: Prerequisite Function Graphs (September-October)

(Graphing, Translating, Combining Functions, Inverse Functions)

Unit 3: Angle Measurement (October)

(Radian/Degree, Unit Circle, Right Triangle, Trig Functions)

Unit 4: Graphs of Trig Functions (November)

(Characteristics of Trig Graphs and Translations, Inverse Trig Functions, Applications)

Unit 5: Trig Identities (November-December)

(Fundamental Trig Identities and Verifying)

Unit 6: Solving Trig Functions and Formulas (November)

(Solving a variety of Trig Functions, Sum and Difference/Multiple Angle/Product to Sum Formulas)

Semester 2

Unit 7: Additional Trig Topics (January-February)

(Law of Sines and Cosines, Vector properties and calculations)

Unit 8: Complex Numbers (February)

(Imaginary numbers, Complex Numbers and solutions, Trig Form, DeMoivre's Theorem)

Unit 9: Exponential and Logarithmic Functions (February-March)

(Properties of e and \ln functions, equations, and models)

Unit 10: Conic Sections (March)

(Lines, Parabolas, Ellipses, Hyperbolas)

Unit 11: Series, Sequences, Probability (April)

(Numbering Patterns, predictions)

Unit 12: Limits (May)

(Definition of a limit, One-sided, Infinite Limits, Methods)

Unit 13: Derivatives (May-June)

(Definition, Slope/Rate, Rules, Implicit)