***Unit 1 part 1 Functions:***

Increasing and Decreasing Intervals/ End Behavior

Domain and Range

Parent Functions

Function Transformation

Creating Two Variable Equations

Piecewise Functions

Graphing Piecewise Functions

Function Compositions

***Unit 1 Part 2 Functions:***

Solving Absolute Value Equations

Solving Inequalities

Graphing Absolute Value Equations

Graphing Inequality Equations

Solving Systems of Equations

Solving Systems of Equations by Graphing

Inverse Functions

Graphing Inverse Functions

Building Functions From a Table

***Unit 2 Rationals:***

Function Operations

Factoring Trinomials

Factor by Grouping

Factoring Polynomials

Factoring Binomials

Completing the Square

Finding the Zeros/Solutions

Simplifying Rationals

Multiplying/Dividing Rationals

Adding/Subtracting Rationals

Solving Rationals

Remainder Theorem

Long Division

Synthetic Division

Fundamental Theorem of Algebra

***Unit 3 Trigonometry:***

Converting between Radian and Degrees

Unit Circle

Trigonometric Ratios

Graphing Sine and Cosine Equations

***Unit 4 Circle:***

Arc Length and Sector Area

Circle Angle Theorems

Circle Segment Theorems

Equation of a Circle

***Unit 5 Logs and Exps:***

Properties of Exponents

Converting between Logs and Exp

Properties of Logs

Solving Log Equations

Exponential Growth and Decay

Inverse Functions of Log and Exps

Natural Logs

***Unit 6 Statistics:***

Population and Sample

Survey Methods

Estimate Population Mean

Make Inference and Conclusions

Simulation

***Unit 7 Modeling with Geometry:***

Properties of Triangles

Properties of 2D Figures

Area of 2D Figures

Volume- prisms, cones, pyramids, spheres, and cylinders

Cross Sectional of 2D and 3D Figures

Modeling with Geometry

Density