Cornwall-Lebanon School District Curriculum Overview

College Prep Pre-Calculus- High School

length of time in weeks	Concepts & Competencies	Common Assessments	Academic Standards
Unit 1 7	Introduction to Trigonometry Students will identify angle measures in both radians and degrees. Students will use the six trigonometric function to solve problems. Students will apply the six trigonometric functions to solve real world applications. Students will determine the exact values of trigonometric functions for special angles.	 Right Triangle Trig Quiz Applications of Right Triangle Trigonometry Quiz Reference Angles Quiz Introduction to Trigonometry Test 	EU 1.1 EU 1.2
Unit 2	Trigonometry Students will graph trigonometric functions. Students will solve trigonometric equations. Students will evaluate trigonometric expressions. Students will prove trigonometric identities. Students will solve problems involving the Law of Sines and Cosines	 Graphing Trigonometric Functions Quiz Solving Trigonometric Equations Quiz Marking Period 1 Exam Solving Trig Equations Quiz Inverse Trig Functions Quiz Trig Equations and Inverse Trig Functions Test Trig Identities Quiz Law of Sines Quiz Law of Sines and Cosines Test 	EU 2.1 EU 2.2 EU 2.3
Unit 3 8	Functions and Graphs Students will classify a relation as a function. Students will determine the domain and range of a function. Students will apply transformations to the graphs of parent functions. Students will determine the inverse of a function. Students will simplify functions using the algebra of functions. Students will evaluate and graph piecewise defined functions.	 Algebra 2 Review Quiz Mid Term Exam Translations Quiz Analyzing Functions Quiz Inverse Functions Quiz Algebra of Functions Quiz Piecewise Defined Functions Quiz Functions Test 	EU 2.1 EU 2.3
Unit 4 5	Polynomial and Rational Functions Students will perform synthetic division to find the zeros of a function. Students will graph polynomial functions Students will graph rational functions.	 Synthetic Division Quiz Zeros of a Polynomial Quiz Marking Period 3 Exam Graphing Polynomials Quiz Graphing Rational Functions Quiz Chapter 4 Test 	EU 1.1 EU 2.2 EU 2.3 EU 2.4