

Cocalico School District Year-at-a-Glance - Curriculum Overview

Department: Math Course: Honors Pre-Calculus with Trigonometry (135A) Grade Level: 9-12

Big Ideas

- Continue building foundations in real number systems, functions, exponentials, logarithms, and trigonometry.
- Utilize graphical and algebraic methods in the approach of the above topics.

Units of Study	% of Course Time	Textbooks & Supplemental Materials	Assessments	Standards Addressed
<ul style="list-style-type: none"> • Algebra Review 	10%	<ul style="list-style-type: none"> • <i>Precalculus: Graphical, Numerical, Algebraic</i> Textbook Appendix A 	<ul style="list-style-type: none"> • Chapter Test 	<ul style="list-style-type: none"> • CC.2.2.HS.D.3 • CC.2.1.HS.F.1-6
<ul style="list-style-type: none"> • Number Systems and Linear Functions 	8%	<ul style="list-style-type: none"> • <i>Precalculus: Graphical, Numerical, Algebraic</i> Textbook Pre-Requisite Chapter 	<ul style="list-style-type: none"> • Chapter Quiz • Chapter Test 	<ul style="list-style-type: none"> • CC.2.2.HS.C.3 • CC.2.2.HS.D.4-10 • CC.2.1.HS.F.3-6
<ul style="list-style-type: none"> • Functions and Graphs 	18%	<ul style="list-style-type: none"> • <i>Precalculus: Graphical, Numerical, Algebraic</i> Textbook Chapter 1 	<ul style="list-style-type: none"> • Chapter Quiz • Chapter Test 	<ul style="list-style-type: none"> • CC.2.2.HS.C.2 • CC.2.2.HS.D.4-10 • CC.2.1.HS.F.1
<ul style="list-style-type: none"> • Polynomial, Power, and Rational Functions 	12%	<ul style="list-style-type: none"> • <i>Precalculus: Graphical, Numerical, Algebraic</i> Textbook Chapter 2 	<ul style="list-style-type: none"> • Chapter Quiz • Chapter Test 	<ul style="list-style-type: none"> • CC.2.2.HS.D.3-10
<ul style="list-style-type: none"> • Exponential, Logistic, and Logarithmic Functions 	10%	<ul style="list-style-type: none"> • <i>Precalculus: Graphical, Numerical, Algebraic</i> Textbook Chapter 3 	<ul style="list-style-type: none"> • Chapter Quiz • Chapter Test 	<ul style="list-style-type: none"> • CC.2.2.HS.C.5-6 • CC.2.2.HS.D.7-10
<ul style="list-style-type: none"> • Trigonometric Functions 	17%	<ul style="list-style-type: none"> • <i>Precalculus: Graphical, Numerical, Algebraic</i> Textbook Chapter 4 	<ul style="list-style-type: none"> • Chapter Quiz • Chapter Test 	<ul style="list-style-type: none"> • Extension Beyond Standards
<ul style="list-style-type: none"> • Analytic Trigonometry 	19%	<ul style="list-style-type: none"> • <i>Precalculus: Graphical, Numerical, Algebraic</i> Textbook Chapter 5 	<ul style="list-style-type: none"> • Chapter Quizzes • Chapter Test • Proof Project 	<ul style="list-style-type: none"> • Extension Beyond Standards
<ul style="list-style-type: none"> • Vectors, Parametric Equations, & Polar Equations 	6%	<ul style="list-style-type: none"> • <i>Precalculus: Graphical, Numerical, Algebraic</i> Textbook Chapter 6 	<ul style="list-style-type: none"> • Chapter Quiz 	<ul style="list-style-type: none"> • Extension Beyond Standards



Eagle P.A.C.T. Course Connections:

Honors Pre-Calculus with Trigonometry encourages all students to work together and use problem-solving skills to solve various real-world applications, utilizing both graphing technology and paper/pencil approaches.