

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

**Department: Math**

**Course: Pre-Calculus/ Trigonometry (135)**

**Grade Level: 10-12**

**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"> <li>• Algebra Review</li> </ul>	10%	<ul style="list-style-type: none"> <li>• <i>Precalculus: Graphical, Numerical, Algebraic Textbook</i> Appendix A</li> </ul>	<ul style="list-style-type: none"> <li>• Chapter Test</li> </ul>	<ul style="list-style-type: none"> <li>• CC.2.2.HS.D.3</li> <li>• CC.2.1.HS.F.1-6</li> </ul>
<ul style="list-style-type: none"> <li>• Number Systems and Linear Functions</li> </ul>	10%	<ul style="list-style-type: none"> <li>• <i>Precalculus: Graphical, Numerical, Algebraic Textbook</i> Pre-Requisite Chapter</li> </ul>	<ul style="list-style-type: none"> <li>• Chapter Quiz</li> <li>• Chapter Test</li> </ul>	<ul style="list-style-type: none"> <li>• CC.2.2.HS.C.3</li> <li>• CC.2.2.HS.D.4-10</li> <li>• CC.2.1.HS.F.3-6</li> </ul>
<ul style="list-style-type: none"> <li>• Functions and Graphs</li> </ul>	18%	<ul style="list-style-type: none"> <li>• <i>Precalculus: Graphical, Numerical, Algebraic Textbook</i> Chapter 1</li> </ul>	<ul style="list-style-type: none"> <li>• Chapter Quiz</li> <li>• Chapter Test</li> </ul>	<ul style="list-style-type: none"> <li>• CC.2.2.HS.C.2</li> <li>• CC.2.2.HS.D.4-10</li> <li>• CC.2.1.HS.F.1</li> </ul>
<ul style="list-style-type: none"> <li>• Polynomial, Power, and Rational Functions</li> </ul>	12%	<ul style="list-style-type: none"> <li>• <i>Precalculus: Graphical, Numerical, Algebraic Textbook</i> Chapter 2</li> </ul>	<ul style="list-style-type: none"> <li>• Chapter Quiz</li> <li>• Chapter Test</li> </ul>	<ul style="list-style-type: none"> <li>• CC.2.2.HS.D.3-10</li> </ul>
<ul style="list-style-type: none"> <li>• Exponential, Logistic, and Logarithmic Functions</li> </ul>	14%	<ul style="list-style-type: none"> <li>• <i>Precalculus: Graphical, Numerical, Algebraic Textbook</i> Chapter 3</li> </ul>	<ul style="list-style-type: none"> <li>• Chapter Quiz</li> <li>• Chapter Test</li> </ul>	<ul style="list-style-type: none"> <li>• CC.2.2.HS.C.5-6</li> <li>• CC.2.2.HS.D.7-10</li> </ul>
<ul style="list-style-type: none"> <li>• Trigonometric Functions</li> </ul>	19%	<ul style="list-style-type: none"> <li>• <i>Precalculus: Graphical, Numerical, Algebraic Textbook</i> Chapter 4</li> </ul>	<ul style="list-style-type: none"> <li>• Chapter Quiz</li> <li>• Chapter Test</li> </ul>	<ul style="list-style-type: none"> <li>• Extension Beyond Standards</li> </ul>
<ul style="list-style-type: none"> <li>• Analytic Trigonometry</li> </ul>	17%	<ul style="list-style-type: none"> <li>• <i>Precalculus: Graphical, Numerical, Algebraic Textbook</i> Chapter 5</li> </ul>	<ul style="list-style-type: none"> <li>• Chapter Quizzes</li> <li>• Chapter Test</li> <li>• Proof Project</li> </ul>	<ul style="list-style-type: none"> <li>• Extension Beyond Standards</li> </ul>



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

Pre-Calculus/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.