

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

**Department: Math**

**Course: Algebra 1 (103A)**

**Grade Level: 9-10**

**Big Ideas**

- Solve and write equations and inequalities including absolute value in order to solve problems.
- Identify, write, graph and use linear equations in slope-intercept form ( $y = mx+b$ ) and point-slope form  $(y-y_1)=m(x-x_1)$  and standard form  $Ax+By=C$ .
- Solve systems of linear equations and inequalities by graphing, substitution and elimination.

Units of Study	% of Course Time	Textbooks & Supplemental Materials	Assessments	Standards Addressed
<ul style="list-style-type: none"> <li>• Solving Linear Equations</li> </ul>	25%	<ul style="list-style-type: none"> <li>• Big Ideas Math – <i>Algebra 1- A Common Core Curriculum</i> by Ron Larson and Laurie Boswell: Chapter 1</li> <li>• Scientific or Graphing Calculator</li> <li>• Supplemental Resources</li> </ul>	<ul style="list-style-type: none"> <li>• Quizzes</li> <li>• Chapter Test</li> </ul>	<ul style="list-style-type: none"> <li>• CC.2.1.HS.F.3-5</li> <li>• CC.2.2.8.B.3</li> <li>• CC.2.2.8.C.1-2</li> <li>• CC.2.2.HS.C.3</li> <li>• CC.2.2.HS.D.7-10</li> </ul>
<ul style="list-style-type: none"> <li>• Solving Linear Inequalities</li> </ul>	12%	<ul style="list-style-type: none"> <li>• Big Ideas Math – <i>Algebra 1</i>: Chapter 2</li> <li>• Scientific or Graphing Calculator</li> <li>• Supplemental Resources</li> </ul>	<ul style="list-style-type: none"> <li>• Chapter Quizzes</li> <li>• Chapter Test</li> </ul>	<ul style="list-style-type: none"> <li>• CC.2.1.HS.F.3-5</li> <li>• CC.2.2.8.B.3</li> <li>• CC.2.2.8.C.1-2</li> <li>• CC.2.2.HS.C.3</li> <li>• CC.2.2.HS.D.7-10</li> </ul>
<ul style="list-style-type: none"> <li>• Graphing Linear Functions</li> </ul>	25%	<ul style="list-style-type: none"> <li>• Big Ideas Math – <i>Algebra 1</i>: Chapter 3</li> <li>• Scientific or Graphing Calculator</li> <li>• Supplemental Resources</li> </ul>	<ul style="list-style-type: none"> <li>• Chapter Quizzes</li> <li>• Chapter Test</li> </ul>	<ul style="list-style-type: none"> <li>• CC.2.1.HS.F.3-5</li> <li>• CC.2.2.8.B.3</li> <li>• CC.2.2.8.C.1-2</li> <li>• CC.2.2.HS.C.3</li> <li>• CC.2.2.HS.D.7-10</li> </ul>
<ul style="list-style-type: none"> <li>• Writing Linear Functions</li> </ul>	19%	<ul style="list-style-type: none"> <li>• Big Ideas Math – <i>Algebra 1</i>: Chapter 4</li> <li>• Scientific or Graphing Calculator</li> <li>• Supplemental Resources</li> </ul>	<ul style="list-style-type: none"> <li>• Chapter Quizzes</li> <li>• Chapter Test</li> </ul>	<ul style="list-style-type: none"> <li>• CC.2.1.HS.F.3-5</li> <li>• CC.2.2.8.B.3</li> <li>• CC.2.2.8.C.1-2</li> <li>• CC.2.2.HS.C.3</li> <li>• CC.2.2.HS.D.7-10</li> </ul>
<ul style="list-style-type: none"> <li>• Solving Systems of Linear Equations</li> </ul>	19%	<ul style="list-style-type: none"> <li>• Big Ideas Math – <i>Algebra 1</i>: Chapter 5</li> <li>• Scientific or Graphing Calculator</li> <li>• Supplemental Resources</li> </ul>	<ul style="list-style-type: none"> <li>• Chapter Quizzes</li> <li>• Chapter Test</li> </ul>	<ul style="list-style-type: none"> <li>• CC.2.1.HS.F.5</li> <li>• CC.2.2.8.B.3</li> <li>• CC.2.2.HS.D.7</li> <li>• CC.2.2.HS.D.9</li> <li>• CC.2.2.HS.D.10</li> </ul>



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

Algebra I (103A) encourages students to use problem solving skills as they study a variety of topics involving linear equations and inequalities to prepare for the Algebra 1 Keystone Exam that they will take at the end of Algebra 1 103B. Students will have opportunities to work together to collaborate and communicate their algebraic thinking.