

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

Department: Math

Course: Keystone Enrichment (96)

Grade Level: 10-11

Big Ideas

- Complete operations on real numbers and expressions including comparing real numbers, simplifying square roots and expressions, greatest common factor, least common multiple, exponents, roots, absolute value, estimation, and factoring.
- Solve linear equations and inequalities as well as systems of linear equations and inequalities.
- Identify and represent patterns using functions.
- Identify slope, intercepts, and rates of change to write linear equations as well as lines of best fit.
- Find measures of central tendency and dispersion as well as create different representations of data to make predictions.
- Find the probability of compound events.

Units of Study	% of Course Time	Textbooks & Supplemental Materials	Assessments	Standards Addressed
<ul style="list-style-type: none"> • Operations with Real Numbers and Expressions 	20%	<ul style="list-style-type: none"> • Big Ideas Math – <i>Algebra 1- A Common Core Curriculum</i> by Ron Larson and Laurie Boswell • <i>Keystone Finish Line: Algebra 1</i> Workbook • Scientific or Graphing Calculator • Supplemental Resources 	<ul style="list-style-type: none"> • Quizzes • Chapter Test 	<ul style="list-style-type: none"> • A1.1.1.1.1 • A1.1.1.1.2 • A1.1.1.2.1 • A1.1.1.3.1 • A1.1.1.4.1 • A1.1.1.5.1 • A1.1.1.5.2 • A1.1.1.5.3
<ul style="list-style-type: none"> • Linear Equations 	16%	<ul style="list-style-type: none"> • Big Ideas Math – <i>Algebra 1- A Common Core Curriculum</i> by Ron Larson and Laurie Boswell • <i>Keystone Finish Line: Algebra 1</i> Workbook • Scientific or Graphing Calculator • Supplemental Resources 	<ul style="list-style-type: none"> • Quizzes • Chapter Test 	<ul style="list-style-type: none"> • A1.2.1.1.1 • A1.1.2.1.2 • A1.1.2.1.3 • A1.1.2.2.1 • A1.1.2.2.2
<ul style="list-style-type: none"> • Linear Inequalities 	16%	<ul style="list-style-type: none"> • Big Ideas Math – <i>Algebra 1- A Common Core Curriculum</i> by Ron Larson and Laurie Boswell • <i>Keystone Finish Line: Algebra 1</i> Workbook • Scientific or Graphing Calculator • Supplemental Resources 	<ul style="list-style-type: none"> • Quizzes • Chapter Test 	<ul style="list-style-type: none"> • A1.1.3.1.1 • A1.1.3.1.2 • A1.1.3.1.3 • A1.1.3.2.1 • A1.1.3.2.2
<ul style="list-style-type: none"> • Functions 	16%	<ul style="list-style-type: none"> • Big Ideas Math – <i>Algebra 1- A Common Core Curriculum</i> by Ron Larson and Laurie Boswell • <i>Keystone Finish Line: Algebra 1</i> Workbook • Scientific or Graphing Calculator • Supplemental Resources 	<ul style="list-style-type: none"> • Quizzes • Chapter Test 	<ul style="list-style-type: none"> • A1.2.1.1.1 • A1.2.1.1.2 • A1.2.1.1.3 • A1.2.1.2.1 • A1.2.1.2.2
<ul style="list-style-type: none"> • Coordinate Geometry 	16%	<ul style="list-style-type: none"> • Big Ideas Math – <i>Algebra 1- A Common Core Curriculum</i> by Ron Larson and Laurie Boswell • <i>Keystone Finish Line: Algebra 1</i> Workbook • Scientific or Graphing Calculator • Supplemental Resources 	<ul style="list-style-type: none"> • Quizzes • Chapter Test 	<ul style="list-style-type: none"> • A1.2.2.1.1 • A1.2.2.1.2 • A1.2.2.1.3 • A1.2.2.1.4 • A1.2.2.2.1

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<ul style="list-style-type: none"> Data Analysis 	16%	<ul style="list-style-type: none"> Big Ideas Math – <i>Algebra 1- A Common Core Curriculum</i> by Ron Larson and Laurie Boswell <i>Keystone Finish Line: Algebra 1</i> Workbook Scientific or Graphing Calculator Supplemental Resources 	<ul style="list-style-type: none"> Quizzes Chapter Test 	<ul style="list-style-type: none"> A1.2.3.1.1 A1.2.3.2.1 A1.2.3.2.2 A1.2.3.2.3 A1.2.3.3.1
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Eagle P.A.C.T. Course Connections:

Keystone Enrichment encourages students to use problem solving skills as they study and review a variety of Algebra 1 topics to prepare to retake the Algebra 1 Keystone Exam at the end of course. Students will have opportunities to work together to collaborate and communicate their algebraic thinking.