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

Department: Math   **Course:** Pre-Algebra (098)   **Grade Level:** 9-10

Big Ideas

- Students will learn how to solve, graph, and write linear equations.
- Students will explore functions through graphing and other algebraic approaches.
- Students will learn how to solve, graph, and write linear inequalities.

Units of Study	% of Course Time	Textbooks & Supplemental Materials	Assessments	Standards Addressed
• Connections to Algebra	15%	• *Algebra 1 – Concepts and Skills* McDougal Littell Textbook Chapter 1 • Scientific or Graphing Calculator • Supplemental Resources	• Quizzes • Chapter Test	• A1.1.1.1.1
• Properties of Real Numbers	15%	• *Algebra 1 – Concepts and Skills* McDougal Littell Textbook Chapter 2 • Scientific or Graphing Calculator • Supplemental Resources	• Quizzes • Chapter Test	• A1.1.1.1.1 • A1.1.1.3.1 • A1.1.1.5.1
• Solving Linear Equations	25%	• *Algebra 1 – Concepts and Skills* McDougal Littell Textbook Chapter 3 • Scientific or Graphing Calculator • Supplemental Resources	• Quizzes • Chapter Test	• A1.1.2.1.1 • A1.1.2.1.2 • A1.1.2.1.3
• Graphing Linear Equations and Functions	20%	• *Algebra 1 – Concepts and Skills* McDougal Littell Textbook Chapter 4 • Graphing Calculator • Supplemental Resources	• Quizzes • Chapter Test	• A1.1.2.1.1 • A1.1.2.1.2 • A1.1.2.1.3
• Writing Linear Equations	15%	• *Algebra 1 – Concepts and Skills* McDougal Littell Textbook Chapter 5 • Scientific or Graphing Calculator • Supplemental Resources	• Quizzes • Chapter Test	• A1.1.2.1.1 • A1.1.2.1.2 • A1.1.2.1.3
• Solving and Graphing Linear Inequalities	10%	• *Algebra 1 – Concepts and Skills* McDougal Littell Textbook Chapter 6 • Scientific or Graphing Calculator • Supplemental Resources	• Quizzes • Chapter Test	• A1.1.3.1.1 • A1.1.3.1.2 • A1.1.3.1.3

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

Pre-Algebra builds students' foundational skills and prepares them to communicate their mathematical thinking using logical steps. Technology is used to justify these steps. Students work together through problem-solving processes in order to explore linear relationships.