

# Cocalico School District

## Year-at-a-Glance - Curriculum Overview

**Department: Math**

**Course: Math 8**

**Grade Level: 8**

### Big Ideas

- To learn and explore the 4 main focus areas of 8<sup>th</sup> grade mathematics: numbers and operations, algebraic concepts, geometry, and measurement, data, and probability

| Units of Study                          | % of Course Time | Textbooks & Supplemental Materials | Assessments        | Standards Addressed                |
|---|------------------|------------------------------------|--------------------|------------------------------------|
| • Real Numbers                          | 5%               | • BI Blue Book Chap. 7             | • Tests or Quizzes | • CC.2.1.8.E.1,4<br>• CC.2.3.8.A.3 |
| • Equations                             | 15%              | • BI Blue Book Chap. 1             | • Tests or Quizzes | • CC.2.2.8.B.2-3<br>•              |
| • Exponents                             | 5%               | • BI Blue Book Chap. 10            | • Tests or Quizzes | • CC.2.2.8.B.1                     |
| • Pythagorean Theorem                   | 10%              | • BI Blue Book Chap. 7             | • Tests or Quizzes | • CC.2.1.8.E.1,4<br>• CC.2.3.8.A.3 |
| • Volume and Similar Solids             | 5%               | • BI Blue Book Chap. 8             | • Tests or Quizzes | • CC.2.3.8.A.1                     |
| • Graphing and Writing Linear Equations | 15%              | • BI Blue Book Chap. 4             | • Tests or Quizzes | • CC.2.2.8.B.2                     |
| • Functions                             | 10%              | • BI Blue Book Chap. 6             | • Tests or Quizzes | • CC.2.2.8.C.1-2                   |
| • Systems of Linear Equations           | 15%              | • BI Blue Book Chap. 5             | • Tests or Quizzes | • CC.2.2.8.B.2-3                   |
| • Data Analysis and Displays            | 10%              | • BI Blue Book Chap. 9             | • Tests or Quizzes | • CC.2.4.8.B.1-2                   |
| • Transformation                        | 5%               | • BI Blue Book Chap. 2             | • Tests or Quizzes | • CC.2.3.8.A.2                     |
| • Scientific Notation                   | 5%               | • BI Blue Book Chap. 10            | • Tests or Quizzes | • CC.2.2.8.B.1                     |



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

Math 8 encourages students to use problem solving skills to analyze and evaluate problems in this course. Students will also need to effectively communicate their thinking and collaborate on problems.