

Department: Math

Course: Math/Co-Taught 6

Grade Level: 6

Length of Course: Full Year

Primary Resources:

PA CC Standards and Eligible Content

Textbooks - Course 1 McGraw Hill Glencoe Math Volume 1 and 2

Maneuvering the Middle: <https://www.maneuveringthemiddle.com/login/>

PSSA Formula Sheet

Units of Study:

Unit 1: (3 Weeks) Decimal Operations

Unit 2: (3 Weeks) Fraction Operations

Unit 3 (3 Weeks): The Number System

Unit 4 (3 Weeks): Ratios

Unit 5 (3 Weeks): Rates and Percents

Unit 6 (2 Weeks): Coordinate Plane

Unit 7 (4 Weeks): Expressions

Unit 8 (4 Weeks): Equations and Inequalities

Unit 9 (2 Weeks): Geometry

Unit 10 (2 Weeks): Data and Statistics

Then we begin working with integers (without the use of a calculator) and solving two-step equations to prepare students for 7th grade math.

Curriculum-Based Assessments:

Textbook Chapter, midchapter, and unit assessments, PSSA-modeled standardized test format questions (MC and Open-ended), formative and summative teacher-made assessments, Digital tasks via Google Classroom, Pre- and Post-test responses via SPM (student performance measures), Study Island Benchmarks, Study Island built tests and Blue Ribbon Practice sessions, MtM (Maneuvering the Middle) coursework & quizzes, and project-based assessments

Standardized Assessments: PSSA Math Testing, Study Island Benchmarks

Description of Course:

As drawn from the PA Core Standards & Eligible Content, 6th grade students will begin with a review and expansion of their understanding and fluency in the areas of the Number System (including integers), decimal operations, fraction operations and the Coordinate Plane (in all 4 Quadrants). Students will then be introduced to Ratios, Percentages, and Rates. Students will review the Order of Operations and Exponents and be introduced to writing and simplifying Algebraic Expressions. Students will learn

to solve, write, and graph 1-step equations and inequalities. Geometry instruction will include using formulae for Area, Surface Area and Volume of various 2-dimensional and 3-dimensional figures. In Data Analysis & Statistics students will calculate measures of center including Mean Absolute Deviation. Finally students will be introduced to measures of variability including interquartile range and box plots. After the PSSAs we will begin to lay the groundwork for 7th-grade skills by continuing our studies of integers and introducing solving 2-step equations. These units will be presented using direct instruction, digital learning resources, partner work, and small group activities. Students will become proficient in the use of appropriate technology tools for the completion of coursework. Emphasis will be placed upon the ability to solve problems, to communicate conceptual understandings, and demonstrate fluency in math/number skills in ways that mirror the requirements and rigor of the PA standards and PSSA assessments.