

BRANDYWINE HEIGHTS AREA SCHOOL DISTRICT
Middle School
200 West Weis Street
Topton, PA

Course Syllabus for Algebra

Overview: This course will provide students with the information and tools necessary to be active in their learning of algebra and related topics. Students will develop an understanding of algebra through applying previous knowledge of arithmetic and other mathematical concepts to real world applications.

Textbook: *Algebra/Structure and Method*-McDougal Littell, 2000

Outline of Content:

First Quarter

- ◆ Introduction to Algebra – variables, equations, problem solving
 - ◆ Working with Real Numbers - integers
 - ◆ Solving Equations and Problems – multi-step equations and application problems
- Assessments: Tests, quizzes, projects, group and independent practice.

Second Quarter

- ◆ Continue Solving Equations and Problems
 - ◆ Polynomials – operations with exponents and polynomials
 - ◆ Inequalities – ordering real numbers and solving inequalities
- Assessments: Tests, quizzes, projects, group and independent practice.

Third Quarter

- ◆ Fractions – operations with algebraic fractions
 - ◆ Applying Fractions – ratios, rates, proportions and percents
- Assessments: Tests, quizzes, projects, group and independent practice.

Fourth Quarter

- ◆ Introduction to Functions – coordinate plane and equations of lines
 - ◆ Factoring Polynomials – using mental math, problem solving and patterns
 - ◆ Rational and Irrational Square Roots
- Assessments: Tests, quizzes, projects, group and independent practice.
- Grading: Grades will be based on the school district grading policy.**