



# Southern Lehigh School District

Middle School Syllabus

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## **Pre-Algebra Math 237/238 2014 - 2015**

### Course Description:

The Pre-Algebra course prepares students for their Algebra 1 class. Many topics are reviewed from previous years. We take these important concepts and build upon them throughout the year. Many new algebraic topics are also introduced. Evaluation of the students is done through many varied methods including testing, quizzing, homework, class work, and projects. Topics covered include integers, ratios, proportions, fractions, percents, geometry, algebraic equations and inequalities, data presentation and interpretation, functions, number theory, and probability. These topics are tied to real world situations to demonstrate the importance of math to the students.

### Course Content:

Major units of study include:

Variables, Expressions, and Integers

Solving Equations

Two Step Equations and Inequalities

Factors, Fractions, and Exponents

Rational Numbers and Equations

Data Analysis

Ratio, Proportion, and Probability

Probability

Percents

Measurement, Area, and Volume

Angle Relationships and Transformations

Real Numbers and Right Triangles

Multi-Step Equations and Inequalities

Geometry

Linear Functions

### Required Textbooks and/or Other Reading/Research Materials

*Pre Algebra* Holt, McDougal by Larson, Boswell, Kanold, and Stiff, 2012

Students will be granted access to their course's online textbook found at <http://my.hrw.com/>

Course Requirements:

Students are expected to come to class prepared with all necessary materials and complete all assignments on time. If you are absent for any reason, it is your responsibility to see your teacher for missed work. Please refer to the policy in the student handbook for timelines to make up missed work and tests.

Grade Components/Assessments:

Grades will be based on homework, tests, quizzes, daily assessments, and alternative assignments.

Each marking period is worth 20% of a student's overall grade. The midterm and final exam are each worth 10% of a student's overall average:

|                |            |
|----------------|------------|
| Quarter 1      | 20%        |
| Quarter 2      | 20%        |
| <b>Midterm</b> | <b>10%</b> |
| Quarter 3      | 20%        |
| Quarter 4      | 20%        |
| <b>Final</b>   | <b>10%</b> |

Required Summer Reading/Assignments:

None