



Southern Lehigh School District

High School Syllabus

ALGEBRA 1

2014-15

Course Description:

Algebra 1 is the first in a series of rigorous mathematics courses offered particularly for the college-bound student. This subject is designed to develop understanding of the basic concepts of the real number system. It includes a study of number properties, equations, inequalities, polynomials, and linear functions. Stress is placed upon logical thinking and computational skills. A scientific calculator is required for this course.

Course Content:

- Basic Computational and graphing skills
- Probability and Ratios
- Percentages and percent change
- Linear Equations
- Distributive Property
- Functions
- Rate of Change and Slope
- Variation
- Equations of Lines
- Inequalities
- Systems of Linear Equations and Inequalities
- Algebraic Proofs
- Exponents
- Radicals
- Quadratic Functions
- Polynomials

Required Textbooks and/or Other Reading/Research Materials

Note: An online version of the textbook is available.

Algebra 1 by Charles, Kennedy, and Hall. Prentice Hall, 2011.

Course Requirements:

Each student is required to complete all tests, projects and assignments. Failure to do so will affect the student's overall grade.

Grade Components/Assessments:

Grades will be based on a point system that will be converted to overall percentages. The following methods will be used, for the year, to assess and evaluate student performance.

Assessments: 70%
Homework: 20%
Classwork: 10%

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

Quarter 1	20%
Quarter 2	20%
Quarter 3	20%
Quarter 4	20%
Final	20%

Required Summer Reading/Assignments:

None.