



Southern Lehigh School District

High School Syllabus

ALGEBRA 1 2013-2014

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:	60 - 70%
Homework:	15 - 25%
Participation:	5 - 15%

Note: Additional alternative assessments are often included in one of the other three categories above.

Based on our mission of giving every student a chance to reach his/her fullest potential, students will be allowed to make up work missed due to excused absences as stated in the student handbook and are encouraged to get additional help whenever necessary for better understanding of class concepts.

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%
Midterm	10%
Quarter 3	20%
Quarter 4	20%
Final	10%

Required Summer Reading/Assignments:

None.