

West Windsor-Plainsboro High School

Algebra I Part I

Description: Algebra I Part I is the first course in a two-year program in which students complete the study of Algebra I. Topics include the language of algebra, integers, solving equations, proportional reasoning, probability, functions, graphs, and linear equations. Investigations and applications of basic concepts to verbal problems are utilized throughout the course with an emphasis on the development of problem-solving ability. Computer software, scientific and graphing calculators will be used.

Textbook: Algebra – Concepts and Applications; Cummins, Malloy, McClain; Glencoe/McGraw-Hill; 2004

Expectations for Students: The students electing this course will:

- actively contribute in group discussions;
- participate in oral and written practice;
- maintain a notebook that demonstrates organizational skills;
- complete all workbook and textbook assignments;
- acquire a scientific calculator to be used in class and on independent assignments;
- obtain a student workbook.

The student is required to bring the following materials to class each day:

- pen and pencil;
- notebook including paper for taking notes (3-ring binder recommended);
- student text and workbook;
- scientific calculator.

Measurable Proficiencies: To successfully complete the requirements of this course, the students will demonstrate the ability to:

- use properties and the order of operations to simplify and evaluate expressions
- collect, organize and interpret data.
- perform operations with integers and rational numbers
- solve equations
- solve problems involving proportions, percents and probability
- explore functions and relations
- graph and manipulate linear equations

Evaluation: Methods used to evaluate the student's degree of understanding of the course content will include the following: class and homework assignments, group work, computer and calculator activities, projects, quizzes, tests, and a final examination. Assignments and evaluation procedures will be cumulative.

The student will attain a minimum proficiency in the course by earning an average grade of a "D" or 60%. A minimum of 70% competency will result in a grade of a "C", a minimum of 80% in a grade of a "B", and a 90% or better in a grade of an "A".

Student Responsibility: It is the responsibility of the student to share the above information with parents or guardians.