

Algebra Ia

The purpose of this course is to develop the algebraic concepts and processes that can be used to solve a variety of real world and mathematical problems. This is the first of a two year sequence of courses, Algebra Ia and Algebra Ib. Together, the two courses are the same requirements as Algebra I, Course Number 1200310.

Course Objectives: The content should include, but not be limited to, the following:

- Structure and properties of the real number system, with an emphasis on rational numbers
- Variables and algebraic expressions
- Varied means for analyzing and expressing patterns, relations, and functions, including words, tables, graphs, geometric formulas, and linear equations and inequalities.
- Solution strategies for simple linear equations and inequalities of one variable
- Relations expressed by ratio, rates, and proportion
- Coordinate geometry and graphing of linear equations and inequalities
- Varied solution strategies, algebraic and graphic, for linear functions
- Data analysis concepts and techniques appropriate to identify patterns and make predictions
- Algebraic notation, selected from the following:
 - Exponents, square roots, radicals, absolute values, and scientific notation

Classroom Policies

1. Come to class on time. It is your responsibility to come to class on time.
2. Be in your seat when the bell rings. You are to remain seated during the class period unless you are given permission otherwise. Pencils need to be sharpened before class begins.
3. Come to class prepared. (e.g. homework, paper, pencil, and calculator)
4. Test and homework must be written in pencil.
5. Giving or receiving information (cheating) will result in a zero on any test or assignment for both the giver and receiver of information.
6. No talking without permission. Raise your hand and wait to be recognized.
7. Respect school and student property.
8. No food, gum, or drink (except water) is allowed in the classroom.
9. No sleeping or putting head down on the desk.

Grading Policy

75 %

Test and Quizzes

1. All test and quizzes will be announced in advance.
2. There will be approximately 4 tests per 9-weeks and quizzes when necessary.
3. The semester exam will count as 2 test grades.

25%

Homework and Homework Quizzes

1. Homework will be assigned each class period.
2. Homework is due the beginning of the next class period that we meet.
3. Homework will be accepted late only if you have an excused absence for the day(s) that it was assigned.
4. Homework quizzes will not be announced in advance.

Supplies

1. Paper
2. Pencils
3. Calculator
4. Folder or notebook

Help Sessions and Make-up Test are on Monday, Wednesday, and Thursday from 2:05 – 3:00

Homework Help On-line:

1. Go to **PHSchool.com**
2. Enter the Web Code for your textbook listed below
aeK-0099
3. Click **Go**