

Course Syllabus
Algebra I
2012-2013

Teacher: Teresa Austin
Room: M205
Planning Period: 4th period
School Phone: (276) 645- 5300
E-mail Address: teresaa@wcs.k12.va.us
Web Page: <http://www.quia.com/pages/taustin/algebra1>

Course Description

- ☐ Students in Algebra I are expected to achieve the objectives of the SOL's of Virginia. In the course, students make connections among arithmetic, geometry, and probability and statistics. Connections are also made to other subject areas through practical applications. Students come to attach meaning to the abstract concepts of algebra. Students are required to use algebra as a tool for representing and solving a variety of practical problems. Tables and graphs are used to interpret algebraic expressions, equations, and inequalities and to analyze functions. Students use calculators and computers when they are available to assist in problem solving. In the course, students are encouraged to discuss mathematics, use the language and symbols of mathematics to communicate, discuss problems and problem solving, and develop confidence in mathematics.

Standards of Learning

- A.1 The student will represent verbal quantitative situations algebraically and evaluate these expressions for given replacement values of the variables.
- A.2 The student will perform operations on polynomials including applying the laws of exponents and factoring first and second degree binomials and trinomials in one or two variables.
- A.3 The student will express the square roots and cube roots of whole numbers and the square root of a monomial algebraic expression in simplest form.
- A.4 The student will solve multistep linear and quadratic equations in two variables.
- A.5 The student will solve linear inequalities in two variables.
- A.6 The student will graph linear equations and linear inequalities in two variables.
- A.7 The student will investigate and analyze function families and their characteristics both algebraically and graphically.
- A.8 The student, given a situation in a real-world context, will analyze a relation to determine whether a direct or inverse variation exists, and represent a direct variation algebraically and graphically and an inverse variation algebraically.
- A.9 The student, given a set of data, will interpret variation in real-world contexts and calculate and interpret mean absolute deviation.
- A.10 The student will compare and contrast multiple univariate data sets, using box-and-whisker plots.

A.11 The student will collect and analyze data, determine the equation of the curve of best fit in order to make predictions, and solve real-world problems, using mathematical models.

Materials

Three ring binder
Notebook paper
Graph paper
Pencil
Graphing calculator (optional)

Grade System

A	93-100
B	85-92
C	77-84
D	70-76
F	Below 70

Grades will be determined by:

- Tests will be given at the end of chapters or major content areas. Each student will earn a daily grade/participation grade, which will count as one test grade for the nine weeks. The average of your tests and daily grade will count 30% of the six week average.
- Quizzes will be given more often than tests and will cover a smaller content area, such as one or two homework assignments. There will be approximately two per week after homework has been reviewed, checked, student questions have been answered, and further explanation has been given. The average of all quizzes will count 30% of the nine week average.
- Notebook quizzes will be given has a random check of students notes and homework. All notes that are given in class should be in each student's notebook along with all homework assignments with correct work and solutions. During a notebook quiz, only the student's notebook will be used to find answers for the quiz. It is the student's responsibility to get notes and homework assignments for classes they do not attend. Notebook quizzes will count 15% of the nine week average.
- Homework/class work will be given daily. It is the single most important aspect of acquiring knowledge of the material presented in this class. It will be checked daily and is 25% of the nine weeks average.

To receive verified credit you must have a grade of 400 or better on the end of the year Standard of Learning Test.

John S. Battle Make Up Policy

A student is expected to make up all work missed regardless of the reason for the absence. At no time is a student to miss additional class time to make up work. The student is responsible to find out from the teacher what work they have missed when they return to school from his/her absence. Parents are strongly encouraged to make contact with the school during the student's absence to solicit make-up work. Students have (3) days to make up work if they have been absent (3) or fewer days. Failure to complete make-up work will result in lowering of student's grade. Students have an additional day to make up their work for each additional day absent. Any work not completed by the end of the grading period, teacher are to assign an F on the grade card, not an I for incomplete. These F grades due to an incomplete may be changed once the work has been made up to the teacher's satisfaction.

Math Department Classroom Expectations/Daily Grade

1. Be on time to class. Class will begin at the bell. After three tardies and for all tardies thereafter students will be assigned after school detention. (2 pts)
2. Have all homework assignments ready to turn in at the beginning of class. Homework will be assigned daily. You are expected to write each question, show all work, attempt every question, and correct each incorrect solution. After three homework/class work deficiencies and for all homework/class work deficiencies thereafter students will be assigned after school detention. An attempt will be made to contact the parent on the 2nd homework/class work deficiency.(2 pts)
3. Bring all materials to class. This includes pencil, math notebook, paper, textbook, and workbook. (2 pts)
4. Leave all food and drinks outside of the classroom. (2 pts)
5. Use the restroom and get water **BEFORE** class begins.
6. Follow directions, listen carefully, work quietly, and be respectful to your peers and teacher. (2-5 pts)
7. Do your own work at all times. (5 pts)

Parent and Student Signature

Please read the syllabus with your child. If you understand the requirements and procedures of this class, please sign the form, separate it from the syllabus, and return it to Mrs. Austin the next class meeting. If you have questions, please contact me. The syllabus will be kept in the student's binder for review throughout the year.

Student Name (Print) _____

Student Name (Signature) _____

Parent Name (Print) _____

Parent Name (Signature) _____

Date _____