

Syllabus
High School Credit ALGEBRA I
2007-2008
Mr. Don Miller

Course Description

Algebra I is designed to prepare today's students for tomorrow's world. We will explore and discover new math concepts, connecting algebra to the real world and to other subjects and math topics. Success in Algebra I is essential in building a strong foundation for future math courses. We will emphasize graphing using a graphing calculator as a problem-solving tool. We will apply algebra skills to geometry, data analysis, probability and discrete mathematics.

Homework

Students will be issued a textbook that they are expected to keep at home. Homework will be completed on loose-leaf paper. Unless otherwise stated, problems must be copied and all work shown. Homework will be given daily and checked at the beginning of class on the next school day. Homework missed due to absence can be picked up the next day in the bin by the front door.

Contacting the Teacher

You may contact me by email at *DonaldMiller@ssas.org*. I try to answer email promptly and usually with 24 hours. You may also contact me by phone. (941 330-1855 ex. 114) Please leave your name, your child's name, a phone number where you can be reached, and the issue that is to be addressed. It is also helpful to let me know a good time to call. I try to return phone calls at the end of the school day. Conferences will be scheduled during the year to meet and talk about your child. Please do not pop in before or after class to discuss a concern. I have 125 students and need this time to organize my materials, check assignments and help students. I would prefer to talk to you about your child when I can give you my full attention and not be overheard by other students.

GRADING

70%	Tests and Quizzes
20%	Homework
10%	Classwork

COURSE CONTENT

First Quarter

Chapter 1 - Using Algebra to Work with Data

Chapter 2 - Equations and Functions

Chapter 3 - Graphing Linear Equations

Second Quarter

Chapter 4 - Solving Equations and Inequalities

Chapter 5 - Connecting Algebra and Geometry

Chapter 6 - Working with Radicals

Third Quarter

Chapter 7 - Systems of Equations and Inequalities

Chapter 8 - Quadratic Functions

Chapter 9 - Exponential Functions

Fourth Quarter

Chapter 10 - Polynomial Functions

Chapter 11 - Rational Functions

Chapter 12 - Discrete Mathematics