



Sarasota School of Arts and Sciences
High School Credit Algebra
2007-2008
Ms. Abby Coulter
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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 calculator as a problem-solving tool. We will apply algebra skills to geometry, data analysis, probability and discrete mathematics.

Materials

*Graphing calculator
Composition book
Mechanical pencils
dry erase marker*

Homework

*Students will be issued a textbook that they are expected to keep at home. Homework will be completed in a composition book. 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. **Late homework receives no credit.** Homework missed due to absence can be picked up the following day in the bin next to the front door.*

Contacting the Teacher

You may contact me by email at AbbyCoulter@ssas.org Email communication eliminates playing phone tag, which happens so often with everyone's busy schedules. I will answer emails promptly, usually the same day. You may also contact me by phone. (941 330-1855 ex. 104) 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 return your call. I return phone calls either before or after the regular school day. Conferences will be scheduled during the year to meet in person and discuss your student's strengths and concerns.

GRADING – Grades are posted on www.edline.com weekly.

40%	Tests
25%	Quizzes
25%	Written Assignments (Classwork and Homework)
10%	Participation

COURSE CONTENT

Text: Algebra 1 Explorations and Applications, McDougal Littell

First Quarter Chapters 1-3

Variable expressions, order of operations, mean, median, and mode, integers, organizing data, 1 and 2-step equations, coordinate graphs, functions, rate, direct variation, slope, finding and writing equations of lines

Second Quarter Chapters 4-6

Using tables and graphs, reciprocals, multi-step equations, equations with fractions or decimals, inequalities, ratios and proportions, scale measurements, similarity, similar figures, probability, Pythagorean Theorem, irrational numbers, radicals, monomials and binomials

Third Quarter Chapters 7-9

Linear Equations, systems of equations, linear inequalities, systems of inequalities, parabolas, quadratic equations and formula, exponents, exponential growth and decay, negative exponents, scientific notations

Fourth Quarter Chapters 10-12

Polynomials, factoring, inverse variation, weighted averages, rational equations, discrete mathematics, permutations

Classroom Rules

- *Respect everyone and everything*
- *Come to class on time prepared to learn*
- *Raise your hand to speak and wait to be called on*
- *Follow directions, participate and enjoy learning*
- *Leave gum, candy, tapping, humming and napping out of the classroom*

Consequences

- *“THE LOOK”*
- *Write rules and call parent*
- *Behavior Essay – Signed by a parent*
- *Detention*
- *Administrative Intervention*

Rewards

- *Praise*
- *Bonus Points*
- *Pride in your good grades*
- *Hugs, smiles and praise from proud parents*
- *“Joy of Learning”*