

PIONEERS Co-Op

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Overview of **ALGEBRA I** (Grades 8-12)

Tutor: Mrs. April Butterfield
517-612-9632
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Required Curriculum: *ABeka Algebra I; Order code:155098*
Abeka Algebra 1 Solution Key

Prerequisite:

- Pre-Algebra
- Automatic recall on basic math facts and understanding of Fundamental Operations (+, -, x, /)
- Comfortable operating on fractions

Supplies:

- Pencil and Graph/grid paper
- Colored pencils
- **REAL** Texas Instruments calculator (TI 30) — cell phone cannot be used

Course Description:

This is a high school level class with quizzes and a semester exam. Expect daily work to take one to one-and-a-half hours per day. Expectations are that students turn in work completed on time, willing to ask questions over concepts they need help with, and that parents will be involved with the process (*this is where the recommended solution key is helpful*), and making sure that their students are keeping up with schedules. The homework is heavily weighted to stress the importance of daily practice with math. Many lectures will be assigned to watch on YouTube, so internet access is a must. Grades will be recorded on TEAMS.

Topics of the Class Include:

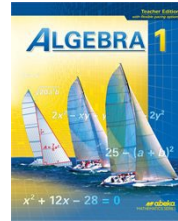
- Real Numbers and the Language of Algebra
- Linear Equations in One Variable
- Linear Equations in Two Variables
- Linear Inequalities
- Systems of Equations
- Polynomial Arithmetic
- Polynomial Factoring
- Radical Expressions and Equations
- Quadratic Equations
- Statistics and Probability

Student Evaluation: Students will receive a percentage grade each semester based upon the following:

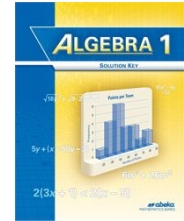
Homework	30%
Quiz and Test Average	45%
Semester Exam	25%

Grading Scale

90-100%	=A
80-89%	=B
70-79%	=C
60-69%	=D
Less than 60%	=E



Textbook



Solution Key