

Algebra 1/2 Syllabus

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Course Description:

This course will introduce you to the abstract study of numbers and their relationship to one another. Pairs of numbers form graphic representations that bring us a powerful visualization of relations. You will develop a more sophisticated way of dealing with word problems by applying algebra. The skills you develop in Algebra are critical to the study of future math classes, as well as the quantitative aspects of any field that you may wish to pursue in the future.

Learning Outcomes: Students will demonstrate the ability to:
Make sense of problems and persevere in solving them.
Reason abstractly and quantitatively.
Construct viable arguments and critique the reasoning of others.
Model with mathematics.
Use appropriate tools strategically.
Attend to precision.
Look for and make use of structure.
Look for and express regularity in repeated reasoning

Required Materials: Will be provided by the teacher.

- * 3-ring binder
- * Loose-leaf Paper or notebook
- * Pencil everyday
- * TI-84 Plus Graphing Calculator (if you own one), if not one will be supplied for you

Algebraic Concepts Covered in this Course

Unit 0: Intro to Algebra

- Addition & Subtraction of Signed Numbers
- Multiplication & Division of Signed Numbers

Unit 1: Variables & Expressions

- Order of Operations
- Evaluating Expressions
- Properties of Real Numbers
- Operations with Real Numbers

Unit 2: Solving Equations

- One and Multistep Equations
- Graphing Inequalities on a Number Line
- Compound Inequalities
- Absolute Value Inequalities

Unit 3: Functions

Function Notations

Formalizing Relations and Functions

Using Graph to Relate Two Quantities

Interpreting Expressions and Functions in Context

Writing a Function Rule

Class Information and Expectations:

You must wear the mask at all time

- Arrive to Class on Time
- Be prepared with Supplies and Homework
- Show respect for others • Listen carefully and follow directions
- Engage and work hard in class
- DO NOT PUT CLASSROOM MATERIALS UP OR STOP WORKING UNTIL EITHER TOLD TO DO SO OR THE BELL RINGS!!!! (CLASS TIME IS FROM BELL TO BELL)

Grading:

40% = Exams / Summative Assessments

40% = Homework / Daily Work / Other

20% = Final Exam