



KAMEHAMEHA SCHOOLS HAWAII

Algebra I Syllabus
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OVERVIEW

Algebra 1 is a one credit course designed with the intent of studying in-depth traditional Algebra concepts through a variety of activities, which when coupled with thematic, real-life applications, allow the students to develop a greater appreciation for mathematics and its applicability within society.

COURSE GOALS

This course will provide students the opportunity to learn and develop problem solving and critical thinking skills, which allow for higher-level analysis of problem sets. Students will also learn to work cooperatively within groups, to analyze problems, and to determine possible problem-solving strategies.

COURSE MATERIALS

- Textbook: Algebra 1. Bellman, Allan E. et al. Prentice Hall, Boston, MA, 2009.
Textbooks are checked out for a year. If your book is not returned at the end of the school year, you will be fined the purchase price of the book. Check-in and check-out of textbooks are handled by the Learning Center.
- Calculator: TI-83 Plus
(KS to provide for classroom use only)
- Supplies:
1. Composition Tablet
 2. 3 Ring Binder
 3. 3-hole ruled paper 8 1/2" x 11"
 4. Pencil and eraser
 5. Graph paper
 6. 1 ream (500 pages) white copy paper
 7. Scientific Calculator

CONTENT OUTLINE

Upon completion of this course, the students will be able to demonstrate their ability to evaluate problems sets in the following areas:

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|----------------------------------|-------------------------------|
| 1. Integers and Rational Numbers | 2. Equations and Inequalities |
| 3. Graphing and Functions | 4. Linear Equations |
| 5. Exponents and Polynomials | 6. Factoring |
| 7. Quadratic Equations | 8. Radical Expressions |
| 9. Rational Expressions | |

CONTENT STANDARDS

The following KS system-wide content standards will be addressed:

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| 1. Operations With Real Numbers | 2. Linear Equations and Inequalities |
| 3. Relations and Functions | 4. Graphing Linear Equations and Inequalities |
| 5. Pairs of Linear Equations and Inequalities | 6. Polynomials |
| 7. Algebraic Fractions | 8. Mathematical Reasoning and Problem Solving |

OPEN DOOR POLICY

I am always willing and available to speak with students about any issues concerning their understanding of the concepts covered in class, their grades or grades on a particular assignment, or their need to be more challenged in class. Whatever the issue, please feel free to come and speak with me to see what we can do to resolve your issue(s). I will make every attempt to work with you in a fair and flexible manner to ensure that you are getting the most out of this class. My door is always open.

GRADING POLICY

Grades will be calculated using the standard KS grading scale based on total points accumulated.