

Name of School:

Name of Course: Algebra 1

Instructor Information

Name:

E-mail address:

School phone number:

Web page address:

Best times to be reached:

Course Description

This course uses an equation solving approach to problem solving. It moves from concrete numerical concepts to abstract concepts. It becomes the language of advanced mathematics courses.

District Standards and Power Benchmarks

Number & Operations Standard: Understands and applies concepts of numbers and operations.

- 1: Understands numbers, ways of representing numbers, relationships among numbers, and number systems
- 2: Understands the meanings of operations and how they relate to one another
3. Computes fluently and makes reasonable estimates.

Algebra Standard: Understands and applies concepts of algebra and functions.

- 1: Understands patterns, relations and functions
- 2: Represents and analyzes mathematical situations and structures using algebraic symbols
- 3: Uses mathematical models to represent and understand quantitative relationships
4. Analyzes change in a variety of situations

Data Analysis and Probability

4. Understands and applies concepts of probability

Problem Solving: Understands and applies problem solving strategies

1. Uses a variety of strategies to solve problems

Course Information

Course length: Two terms.

Successful completion of each term counts toward the Math requirement for graduation.

Credit: .5 credit per term.

Course Outline/Calendar

Term 1:

Unit 1. Tools of Algebra (Chapter 1)

Unit 2. Solving Equations & Inequalities (Chapters 2 & 3)

Unit 3. Patterns & Functions (Chapters 5 & 6)

Term 2:

Unit 4. Systems of Equations (Chapter 7)

Unit 5. Exponents & Polynomials (Chapters 8 & 9)

Unit 6. Quadratic Equations & Radicals (Chapters 10 & 11)

Text/Other Required Materials/Resources

Textbook: *Algebra I, Prentice Hall Mathematics*, 2004.

Students are expected to bring all supplies to class every day including notebook, paper, pencil, and calculator.

Instructional Procedures & Support

- Instructional method(s): Lecture, cooperative learning groups, and guided practice.
- Teaching strategies: Note taking, graphic organizers, compare/contrast.
- Academic expectations of students: Good attendance and punctuality are critical for success in this course. Students should expect to spend approximately 1 hour each night completing assignments, reviewing notes, and reading the text.
- Homework expectations: Each homework assignment is expected to be turned in on the day it is due. No late work is accepted.
- Major Course Assignments: Assignments will be given on a daily basis. A test will follow each chapter, and a minimum of one quiz will be included within each chapter. A final exam will be given at the end of each term.
- Make-up guidelines will be clarified the first day of class. Students who are absent more than one day should contact the school or instructor to get their make-up work.
- Extra help: Students can get extra help before and after school. Please let your instructor know the time that you are available to come in if you need extra help. There also may be times within the school day for students to receive extra tutoring.

Classroom Management Procedures

Classroom behavior guidelines:

It's important that all students attend class every day. The school's attendance policy will be followed as outlined in the Student Planner

Assessment Plan

Progress reports: Students will also receive a formal mid-term grade. At the end of each term, students will receive a final examination grade and final "overall" term grade. This final grade will determine whether the student has passed the course and is used in calculating their high school GPA.

Grading procedures:

Homework/openers	20%
Projects/Notebook/Group activities	15%
Quizzes/Tests	55%
Final	10%

Grading System

Grades will be determined by the DCSD Grading Scale.

100-90	A
89-80	B
79-70	C
69-60	D
59-0	F