

Name of Intermediate 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 & 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: One Year

Course Outline/Calendar

Semester 1:

Unit 1. Tools of Algebra: Chapter 1

Unit 2. Solving Equations & Inequalities: Chapters 2 – 4

Unit 3. Patterns & Functions: Chapters 5 – 6

Semester 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 1*, Prentice Hall Mathematics, 2004.

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

Instructional Procedures & Support

Methods for delivery of instruction: direct instruction, class discussion, group work

Teaching Strategies: Note taking and guided practice

Academic Expectations: Participate in class discussion and ask questions

Homework Expectations: Complete and understand assignments on a daily basis

Opportunities for make-up: Students are responsible for making arrangements upon return

Deadlines for student work: All daily assignments are due at the start of the next class period.

Opportunities for additional support: Students should make arrangements with the teacher for extra help.

Classroom Management Procedures

1. School attendance policy will be followed.
2. Students are expected to bring all supplies to class every day.

Assessment Plan

Homework/openers 20%

Projects/Notebooks/Group activities 35%

Quizzes/Tests 55%

Final 10%

Grades will be communicated to students regularly. Reports will be sent home at midterm and each end of term.

Grading System

Grades will be determined by the DCSD Grading Scale with the Power of I:

100-90 A

89-80 B

79-70 C

69-0 I (Incomplete)