



**Reseda High School Police Academy Magnet**  
**Algebra One A/B**  
**Mr. Flores**

**Course Description:** Using California State Standards for Algebra I as a guide, students will acquire fundamental skills and knowledge of Algebra. Algebra is the starting point for all higher mathematics and is essential in developing logical and critical thinking skills. This class will cover topics such as: integers, algebraic expressions, equations, polynomials, exponents, radical, rational expressions, inequalities and absolute value, and linear and quadratic functions. We will use Mathematica, a computer based mathematics software, on a daily basis in order to reinforce concepts learned in class. In this magnet course, we will also learn about the connections between Algebra and law enforcement fundamentals.

**Topics of Instruction:**

**Unit 1: Number Properties; One and Two Step Equations**

ACCS: 1.1, 2.0, 3.0, 24.0, 25.0

**Unit 2: Linear Equations; Multi-Step Equations/Inequalities**

ACCS: 4.0, 5.0, 24.0, 25.0

**Unit 3: Graphing Linear Equations/Inequalities**

ACCS: 6.0, 7.0, 8.0, 17.0

**Unit 4: Systems of Linear Equations**

ACCS: 9.0

**Unit 5: Quadratics**

ACCS: 10.0, 11.0

**Unit 6: Solving Quadratics**

ACCS: 14.0, 19.0, 20.0, 21.0, 22.0, 23.0

**Unit 7: Functions**

ACCS: 16.0, 17.0, 18.0

**Unit 8: Rational Expressions**

ACCS: 12.0, 13.0

**Grading**

Each assignment will be graded with a score from 0 to 5. Where A = 5, B = 4, C = 3, D = 2, F = 1, and zero if student doesn't turn-in the assignment. The final grade will be based

on individual student total number of points as a percentage of total points possible. A = 90-100%, B = 80-89%, C = 70-79%, D = 60-69%, F = 59% and below

15% Assignments (Homework and Class work)

60% Tests and Quizzes

20% Mathematica Projects

5% Classroom behavior

## **Attendance, Cooperation and Work Habits**

### **1. Respect**

- A. Each other (e.g. avoid inappropriate language, talking when teacher or others are speaking)
- B. Environment (e.g. computer lab-no food or drinks)

### **2. Follow school and Police Academy rules/policy at all times**

- A. You must be on time to class and ready to learn (3 warnings, parent contact, detention, etc)
- B. Bathroom passes 3 times each semester (only at appropriate times)
- C. Please don't bring electronics to class

**Note:** Challenge yourself

- Question the quality of your own work.
- Ask yourself how can you improve the assignment.
- Ask for help from the teacher or other classmates if you need it.

## **Assignment Types**

\*Presentations \*Projects \*Quizzes \*Exams \*Homework \*Classwork \*Mathematica Projects.

## **Homework/Classwork Policy**

Assignments are assigned on regular basis. All student work must be of the individual student. CHEATING of any type will not be tolerated.