

## **Course Expectations: Algebra 2**

### **Mr. Crego- 2007-2008**

#### **Course Scope:**

This Second year course in algebra represents and intellectual progression from the concept of numbers as experienced in arithmetic to the notion of properties of numbers without regard to their value. This is a necessary tool for science applications. Formal abstractions will enable students to understand and analyze the data in many occupational and academic fields. The use of current technology, such as graphing calculators is an integral part of this course. This course will fulfill one of the mathematics credits required for graduation.

#### **Course Goals:**

1. To understand the field properties of the complex number system and their uses in simplifying expressions and solving open sentences.
2. To solve real world problems using algebraic techniques involving equations and inequalities.
3. To prove algebraic assertions using the field properties.
4. To develop different methods for solving systems of quadratic equations.
5. To solve algebraic problems using absolute value, exponential and logarithmic functions
6. To represent and solve problems using linear programming.
7. To investigate finite and infinite sequences and series.
8. To study and graph quadratic relations.
9. To formulate and solve real life problems using matrices.
10. To Identify, graph and analyze the effects of parametric changes on a variety of relations and functions.
11. To organize data and use counting principles in order to interpret and predict events.
12. To investigate algebraic functions and extend problem solving techniques using current technology.
13. To develop the ability to reason and communicate mathematically in order to apply learned concepts to new problem solving situations.
14. To increase confidence in mathematical abilities so that students are encouraged to continue participation in higher level mathematics courses.

#### **Materials:**

1. Text: Glencoe Algebra 2; 2001 copyright
2. Pencil/pen: Work must be neat and legible or you will be required to do it over.
3. Notebook: Notes will be taken every day.
4. Calculator: must be scientific.

## **Course Activities:**

**Notes:** Good note taking skills are essential. You will be expected to take accurate notes on a daily basis.

**Daily Assignments:** Homework will be assigned daily and should be completed prior to the next class period.

**Quizzes and Tests:** At the end of each chapter a unit assessment test will be administered. In addition one or more quizzes will be given during the unit these may or may not be announced.

**Vocabulary:** We will be participating in the school wide vocabulary project.

## **Evaluation:**

Grades: Test/quiz 60%  
Homework 30%  
Vocabulary/Notebook 10%

Scale: A 90-100%  
B 80-89%  
C 70-79%  
D 60- 69%  
F Below 60%

## **Classroom Policies:**

**Homework:** Must be on time. If you are absent you will have 3 school days to make up the missing assignment. Late work will not be accepted.

**Tardy Policy:** The district policy will be followed.

**Academic dishonesty:** First offense zero on the test or assignment and parent contact.  
Second offense "U" in citizenship, and a possible failing grade for the semester.

I have read and understand the expectations for the algebra 2 class

Parent: \_\_\_\_\_

Student: \_\_\_\_\_

Student (Printed): \_\_\_\_\_