Mrs. Ellis
Leonardo DaVinci High School
Algebra I
Course Overview

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Course **Algebra I**

Assessment State prepared assessment
June 3rd – Common Core Exam
June 20th – Integrated Algebra Exam
***Students are to take both of these exams. The higher test score is placed on the transcript.

Description

The college-preparatory Algebra 1 course is the first mathematics course for the majority of high school students. The integrated algebra course set forth here is not the algebra of 30 years ago. The focal point of this course is the NYS algebra content strand.

Algebra provides tools and ways of thinking that are necessary for solving problems in a wide variety of disciplines, such as science, business, social sciences, fine arts, and technology.

This course will assist students in developing skills and processes to be applied using a variety of techniques to successfully solve problems in a variety of settings. Problem situations may result in all types of linear equations in one variable, quadratic functions with integral coefficients and roots as well as absolute value and exponential functions.

Coordinate geometry will be integrated into the investigation of these functions allowing students to make connections between their analytical and geometrical representations. Problem situations resulting in systems of equations will also be presented. Alternative solution methods should be given equal value within the strategies used for problem solving. For example, a matrix solution to a system of equations is just as valid as a graphical solution or an algebraic algorithm such as elimination. Measurement within a problem-solving context will include calculating rates using appropriate units and converting within measurement systems.

Data analysis including measures of central tendency and visual representations of data will be studied. An understanding of correlation and causation will be developed and reasonable lines of best fit will be used to make predictions. Students will solve problem situations requiring right triangle trigonometry.

Elementary probability theory will be used to determine the probability of events including independent, dependent and mutually exclusive events. Completion of this course prepares a student for further work in Regents Geometry, GEO2R.

Required Materials/ Supplies:

3-ring binder with three tabs (can be made out of construction paper)
Loose leaf paper
Pencil

A graphing calculator will be provided during class-time. (Due to limited numbers of calculators it may be necessary to bring one from home on test days).

Classroom Expectations:

1) Be safe
2) Be responsible
3) Be respectful

Grading Policy:

Report card grades will be determined based on the number of points earned divided by the number of possible points. Points will be earned through classwork, participation, tests, assignments, notebooks, or any other relevant sources as per teacher directives.

Attendance and Make-up policy: *Attendance in class is EXTREMELY important. We will be working diligently everyday, and missing a class will set you back. There is a Unit Policy for making up missed work. Assignments will not be accepted beyond the day that the unit assessment is given. NO EXCEPTIONS! You are responsible for making and keeping an appointment to make-up missed tests. If you are in school the day before a test but miss the test you will be expected to make up the test the day that you return. If you miss the day before a test you will be awarded one day to prepare for the test before making it up. If you do not utilize the opportunity to make-up work, you will be given a zero for all missed assignments and assessments. Extended absences and extenuating circumstances will be addressed as needed.*
If you are caught cutting class, you WILL NOT be afforded the opportunity to make-up work or submit assignments that were due on the day you missed.

Student Name _____ Period_____

Parent Name _____ Relationship _____
Please check the indicated boxes and sign.

☐ I have read and understand the course requirements for Algebra I.

☐ I have access to the internet.

Contact Information

Parent/Guardian Name: _____

E-mail Address: _____

Home Phone: _____

Alternate Phone: _____

Please let me know your preferred method of contact and any restrictions or requests that you may have.

Student signature _____

Parent signature _____

Student Information Sheet

Name _____ Grade _____

Address _____ DOB_____

_____

Your Contact Information:

Phone Number _____

E-Mail _____

Previous Math Courses (Circle your answers)

Have you ever taken Algebra before? Y/N

On average are your math grades in the: 70's 80's 90's

Do you consider yourself good at math? Y/N

On a scale of 1 – 10, with 10 being your favorite, how do you rate math? _____

Questions

1. What grade do you expect to achieve in this class?

2. What grade do you expect to achieve on the final exam for this class?

3. What challenges or other circumstances may influence the grades you expect to earn in this class?

4. Why did you choose DaVinci?

5. Tell me about….. (please listen to teacher added questions)