



Reynolds High School

Algebra 2

Building Relationships for Academic Success

Mrs. Savage
Room 702

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Required Textbooks/Materials

You will need paper, pencil, a math section in your binder, and a scientific calculator for class. There are a limited number of graphing calculators that can be checked out from the library bookroom and scientific calculators that can be borrowed during class time. There is a required book, *Algebra 2*, that can be checked out from the library bookroom. There is also online access to the book.

Course Description

The fundamentals of functions will be emphasized through the study of quadratic, polynomial, rational, power, exponential, and logarithmic equations. Composition, inverses, and transformations of functions will be explored. Connections between graphical, numerical, and symbolic representations will be used to build conceptual understanding. The course culminates in a final project in which a prediction model is selected for real life data.

Course Requirements/Expectations

Homework will be assigned and checked every class period. Make sure to keep up with your assignments especially when you are absent. There will be quizzes throughout the unit, and tests will be given at the end of each unit. There will be a semester and final exam.

Grading Policy Description

Your grade will be based on proficiency on the Algebra 2 standards. Your grade will be determined by both formal and informal assessments.

Students' grades will be weighted:

- 75% based on Mastery (Unit Tests, Semester Exams)
- 15% based on Classwork (Quizzes, Graded Projects)
- 10% based on Homework (Graded for completion)

Late Work/Retake Policy

Homework is assigned each class day and is expected to be completed by the next class day. Late homework will only be accepted until the end of the unit. Quizzes can be retaken one time, for up to full credit. Quizzes must be completed before the end of the unit. Tests can also be retaken one time. The new score for the test will be an average of the two test scores. This may mean that your grade will go down! If you miss a test due to an absence, and do not make it up by the next class day, you will not be able to retake it. Tests must be completed by the end of the semester due date.

Letter Grade Description & Percentage Breakdown

Grade Percentage	Letter Grade	Description
100% - 90%	A	The student fully understands the content and the course objectives have been mastered.
89% - 80%	B	The student understands the content and course objectives at an above average level.
79% - 70%	C	The student understands the course content and course objectives at an average level.
69% - 60%	D	The student understands the course content at a below average level and a minimum of course objectives are met.
59% - 0%	F	The student has not met a sufficient number of course objectives to pass a minimum level and receives no credit.

Course Schedule/Outline of Units

Dates	Topic
September	Linear Functions
October	Quadratic Functions
November	Quadratic Equations and Complex Numbers
December	Polynomial Functions
January	Polynomial Functions
February	Rational Exponents and Radical Functions
March	Exponential and Logarithmic Functions
April	Rational Functions
May	Mathematical Modeling
June	Choosing a Model Project

Class Expectations

Prepared and Punctual: Please be on time to class. Tardiness is a sign of disrespect. Materials needed for class includes paper, pencil, and calculator. I have scientific calculators available to borrow during class, and graphing calculators can be checked out from the library. Cell phone calculators are not allowed. We will occasionally be using rulers and highlighters. These are also available to borrow in class.

Organized: You will need a section in your binder for math. Keep all work for the current unit in your binder. After the unit test, you may remove that unit's work from your binder, however you need to keep it in a safe place to study for the semester and final exams.

Writers: Be sure to keep your planner up to date with due dates, quiz, and test dates.

Engaged: Your time in high school is limited, be sure to get the most out of your education by being engaged in class. Be sure to pay attention in class and study for tests and quizzes. The entire class period should be used effectively. Headphones are not allowed during instructional time.

Respectful: Everyone's opinion is valuable to our discussions. There will be no negative comments, unconstructive criticism, or inappropriate behavior. Be respectful of the class environment by cleaning up after yourself and taking good care of the classroom supplies. Food is not allowed in class.