

Algebra 2

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Algebra 2 is part of a series of math courses that strives to prepare all students to be both college and career ready. The lessons of mathematics extend past the procedural aspects found in math, but they also develop problem solving and critical thinking techniques useful in nearly every field. Algebra 2 builds on previous work with linear, quadratic, and absolute value functions. Extending to include exponential, logarithmic, polynomial, rational, and radical functions.

In Algebra, each new idea builds upon previously learned ideas. Therefore, you cannot afford to fall behind. Do the assigned work as soon as possible, so you can seek help if it is needed.

I. Concepts you will encounter:

1. Relations and Functions
2. Linear Equations
3. Quadratic Functions
4. Polynomials and Polynomial Functions
5. Polynomial Equations
6. Inverses and Radical Functions
7. Exponential Functions
8. Logarithmic Functions
9. Rational Functions

II. Standards for Mathematical Practice

1. Make sense of problems and persevere in solving them
2. Reason abstractly and quantitatively
3. Construct viable arguments and critique the reasoning of others
4. Model with mathematics
5. Use appropriate tools strategically
6. Attend to precision
7. Look for and make use of structure
8. Look for and express regularity in repeated reasoning

Mathematics takes lots of practice, so you will be assigned problems to work every class. Get help right away, if you do not understand something!

Take responsibility for your own learning, enjoy the work, and expect to be successful!

Everyone is capable of learning math!

III. Grading Information

Weighting: (Quarter)

Daily Participation, Classwork, and Homework	30%
Quizzes and Tests	70%

Semester Grade:

$S1 = 50\% \text{ of Q1} + 50\% \text{ of Q2}$

$S2 = 50\% \text{ of Q3} + 50\% \text{ of Q4}$

IV. Required Materials

Notebook or Binder for notes

Pencil and Paper

School Chromebook

*Calculator

V. Classroom Expectations

- Students are to come to class prepared to learn with homework completed.
- A daily participation grade may be awarded for being on time (not tardy), bringing your supplies, and completion of bellwork.
- Students who know they will be absent should request their work and assignments ahead of time.
Not communicating with the teacher does not excuse missing homework deadlines.
- Homework turned in late, will have points deducted.⁸
Work turned in later than a week after the deadline may earn a zero.
- You may redo some assignments to improve a grade by working with the teacher.
- Certain quizzes and exams may have the opportunity to be corrected or redone for partial points. All assignments, redos, and corrections should be completed before the chapter test.
- Read the Student Handbook for further expectations and procedures.

Think Positive, Be Positive!