# Algebra 2 CP

**Teacher: Mrs. Gurley**

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## Course Textbook:

enVision Algebra 2 by SAVVAS

## Course Description:

In Algebra 2 students extend their repertoire of functions to include polynomial, rational, and radical functions. Students expand their abilities to model real-world situations, including solving quadratic equations involving complex numbers and solving exponential equations by using logarithms. The Mathematical Practice Standards apply throughout the course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful and logical subject.
PREREQUISITE: Alg 1; Geometry; Math Teacher Recommendation

## Student Learning Outcomes:

By the successful completion of this course, you will be able to:

1. Graph and analyze parent functions (polynomials, quadratic, absolute value, radical, rational, exponential)
2. Simplify and solve quadratic, polynomial, radical, rational, and exponential equations.
3. Find probabilities of independent, dependent, and conditional events. Find the number of possible outcomes in a sample space.

## Course Outline/ Scope and Sequence

| 1st Quarter / 3rd Quarter | 2nd Quarter / 4th Quarter |
|---|---|
| Linear Equations/Inequalities / Absolute value<br>Quadratics<br>Polynomials | Radical Functions<br>Rational Functions<br>Exponential Functions<br>Probability<br>Matrices/Trig |

# Required Materials:

1. Chrome book will be used at times
2. 3-ring binder or notebook with folder. You will receive guided notes, you want something to keep the notes organized.
3. Scientific and/or Graphing Calculator (there will be a class set)

# Classroom Expectations:

1. **Be prompt.** Be at your desk and ready to begin class when the bell rings.
2. **Be respectful.** Treat everyone in the classroom with the courtesy and respect you wish to receive yourself.
3. **Be prepared.** Bring your textbook, notebook, and a writing utensil to class every day. Complete your homework before coming to class each day.
4. **Be present.** I expect you to be in class every day! Do not ask to leave the classroom unless it is an emergency.
5. **Be honest.** Have academic integrity throughout all assignments online and in class.

**Consequences**: First offense, teacher warning—second, time after school or at lunch—third, parent contact and time after school—thereafter, office referral.

# Course Policies:

### Grading Practices

- **60% Major Grades** (Including Tests, Online Work (Savaas Realize)
- **40% Minor Grades** (Quizzes, Weekly assignments, Projects)

### Schoolwide Makeup Work Policy

- Students have 1 school day for each absence to
  - submit missed work for full credit -OR-
  - arrange a new due date with the teacher within 5 school days (extenuating circumstances)
  - Make-up Tests will be scheduled by the teacher
- After this window, work is considered late

### Schoolwide Late Work Policy (Does not apply to AP Courses)

- All minor assignments and projects will have a **Due Date** and a **Final Deadline**.
  1. **Due Dates** are the initial day an assignment is due.
  2. The **Final Deadline** is the last day an assignment will be accepted for credit.
  3. Assignments submitted after the Due Date but before the Final Deadline may receive a late penalty.
- **Minor Assignments and Homework**
  - If not submitted by the Due Date: a grade of 0 will be recorded.
  - There will be no late penalty if turned in by the final deadline. Final Deadline is the date of the Unit test
- **Tests (Major Assessment)**

- Make-up Tests will be scheduled by the teacher
- A student who refuses to take a scheduled test while present at school will receive a final grade of 0 on the assessment.

# MagicSchool Syllabus Statement

*This year, students will use MagicSchool AI, a generative AI platform designed specifically for education. As tools like ChatGPT and Gemini become standard in the professional world, utilizing MagicSchool prepares students for the future workforce by teaching safe and responsible technology use.*

*Students will use these tools for real-time feedback and dynamic problem-solving. To ensure appropriate use, teachers retain access to all student chats. MagicSchool strictly protects privacy and does not collect or utilize student data. All AI software, including MagicSchool, complies with GCS Board Policy and Administrative Rule IA.*

Generative AI Syllabus Statement

*This course may utilize generative AI tools, such as MagicSchool and Google Gemini, to supplement traditional instruction. Greenville County Schools prioritizes the ethical use of these technologies for brainstorming and self-guided learning.*

- **Critical Thinking First:** AI must not replace original thought or coursework.
- **Academic Integrity:** Using AI to complete and submit assignments as original work constitutes plagiarism.
- **Required Citation:** If teacher-approved, all AI use must be properly cited.
- **Content Awareness:** Students must remain vigilant regarding potential biases and inaccuracies in AI-generated content.
- **Policy Compliance:** All AI programs align with GCS Board Policy and Administrative Rule IA.