

Algebra 1 Honors Syllabus



Class Information

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Materials Needed

1. Pencils
2. Dry Erase Markers
3. Notebook

Course Description

Algebra 1 Honors students will study all of the topics included in CP Algebra 1. Algebra 1 (A1) is designed for students who have completed Geometry with Statistics. This is the second required course before students choose the college or career pathway. A1 emphasizes functions: linear, absolute value, quadratic and exponential. Equations and expressions with linear and quadratic terms are also studied to learn how algebraic expressions model real-world situations. Statistical reasoning is studied to learn how data are represented and can be used to make predictions. Students enrolled in this course will take a South Carolina End-of-Course Exam that will count for 20% of their final grade. PREREQUISITE: Geometry with Statistics

Learning Objectives

1. Students will solve multi-step equations and inequalities, including those with variables on both sides. They will also determine if these mathematical statements result in one, infinite, or no solutions.
2. Students will analyze various linear scenarios to construct equations in multiple forms, such as standard and slope-intercept.
3. Students will learn to write, graph, and transform linear functions using function notation. They will also apply analytic methods to interpret linear relationships in data sets.
4. Students will master various methods for solving systems of linear equations and inequalities. They will also practice selecting the most efficient method for a given system.
5. Students will identify, graph, and transform exponential functions. They will use these functions to model real-world growth and decay scenarios to make predictions.
6. Students will analyze polynomial structures and perform operations such as addition, subtraction, and multiplication. Additionally, they will factor trinomials using greatest common factors and special patterns.
7. Students will graph quadratic functions and interpret their key features. They will also apply these functions to represent and analyze real-world situations.
8. Students will solve quadratic equations using tables, graphs, and factoring. They will also apply advanced techniques such as square roots, completing the square, and the quadratic formula.

9. Students will compare and contrast different function families, including linear, exponential, quadratic, and absolute value functions. They will evaluate how these models represent varied relationships and behaviors.

For more information, refer to [SC State Standards](#) for [Algebra 1](#).

Course Outline/Pacing/Scope and Sequence

Unit	Suggested Pacing
Unit 1: Solving Equations and Inequalities	9 days
Unit 2: Linear Equations	9 days
Unit 3: Linear Functions	10 days
Unit 4: Systems of Linear Equations and Inequalities	10 days
Unit 5: Exponents and Exponential Functions	11 days
Unit 6: Polynomials and Factoring	10 days
Unit 7: Quadratic Functions	8 days
Unit 8: Solving Quadratic Equations	8 days
Unit 9: Comparing Functions	7 days

Textbook Title

- SAVVAS Learning: enVision Algebra I

Course Grading Scale

A: 90 - 100 B: 80 - 89 C: 70 - 79 D: 60 - 69 F: 59 or below

Grades will be determined as follows:

Major tests weighted at 60%

Quizzes and minor grades weighted at 40%

Major tests can include cumulative tests over several topics or chapters, as well as, projects. Quizzes can include announced and unannounced quizzes over material covered in class and assigned for homework. Homework will be graded for effort and occasionally for accuracy.

Final Grade for Course

The final grade for this course will be determined as follows:

Quarter 1 Grade: 40%

Quarter 2 Grade: 40%

Final Exam (EOC): 20%

An End of Course Exam (EOC) will be used as the final in this course.

Attendance Expectations

It is imperative that ALL students are actively engaged and present every day!

Absences in High School are accrued per course. Any absence in excess of 5 may cause the student to lose credit for a 90-day/semester course. Absences that are medical (doctor notes), bereavement, and/or Principal Approved are not included in the maximum absences. Greer High students must be present a minimum of 45 minutes to be counted present. (Refer to the Student Handbook.)

Make Up Work

Major tests must be made up within one week of the original test date with an excused absence. Arrangements must be made with the teacher for a suitable time to make up Major tests. Quizzes will not be made up, the major test grade from that topic or unit will substitute for the missed quiz grades. Late Homework will be accepted, but points will be deducted. It is the students' responsibility to make up work. All assignments are posted on google classroom every day. If you are out, you need to look on google classroom to make up what you missed.

Greer High School Late Work Policy (Minor Grades)

At a minimum, students may receive up to 75% on minor assignments turned in 1 day late. At a minimum, students may receive up to 50% on minor assignments turned in 2 days late. This policy does not apply to students who are absent for instruction. When considering absences, teachers will assign a reasonable amount of time for students to make up assignments that does not exceed 5 days.

Redo/Retake/Revision Procedures

At the end of each quarter, a test will be given on all topics covered in that quarter. The grade on that test will replace the lowest test grade that quarter. If the grade is lower than all other test grades, it will not be counted. This gives students an opportunity to show that they learned the material they previously missed.

Late Work/Makeup Procedures

Minor:

1. If a student is absent for a minor assignment, a zero will be entered in the grade book and coded as make-up.
2. Students will have 5 days to complete the assignment for full credit.
3. Students who refuse to complete work will be referred to administration.

Major:

1. If a student is absent for a major assignment, a zero will be entered in the grade book and coded as make-up.
2. Students will have 5 days to complete the assignment for full credit with their teacher or in Major Make-up Lab.
3. If the student does not make up the assignment within 5 days, they will automatically be assigned to Major Make-up Lab.
4. Students who refuse to complete work will be referred to administration.

Magic School

- This year, students may 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 may 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

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.

Tardiness

If a student is less than 5 minutes late to class without an excuse, this is a TARDY. If a student is more than 5 minutes late to class without an excuse, this is considered CUTTING CLASS. (Refer to the Student Handbook)

- 1st/2nd/3rd Offense - Warning, contact parent on 3rd tardy
- 4th Offense - Submit Referral, Administrator Assigned Lunch Detention
- 5th Offense - Submit Referral, Administrator Assigned Lunch Detention
- 6th Offense - Submit Referral, Administrator Assigned ISS
- 7th Offense - Submit Referral, Administrator Assigned ISS
- 8th Offense and Subsequent Tardies - Submit Referral, Administrator Assigned OSS

Classroom Expectations

BE RESPECTFUL

1. Obey ALL school policies and rules laid out in the student handbook.
2. Allow yourself & others to learn by staying quiet and focused during lessons and practice time.
3. Please remain in your seat until I dismiss you at the end of class.
4. Respect the property and rights of other students and the teacher.

5. Follow all cell phone and Chromebook policies. Cell phones are only allowed at certain times and only by permission of the teacher. NEW CELL PHONE POLICY THIS YEAR!

BE RESPONSIBLE

1. Come to class prepared with all materials and assignments.
2. NO ELECTRONICS or PHONES DURING TESTS, QUIZZES, or INSTRUCTIONAL TIME.
3. Take your seat when the bell rings, class starts with the ringing of the tardy bell.

BE RESOURCEFUL

1. Exhibit a positive attitude. Be involved and participate.
2. Come to class with a willingness to learn (growth mindset).
3. If you need help, ask for it! We will be working together in pairs, in small groups and tutoring is available.

Student Consequences for Behavior Issues

First Offense: Verbal warning and/or seat change

Second Offense: Parent contact and referral to administration

Third Offense: Discipline referral to administration which may result in ISS or Suspension

Hall and Restroom Passes

If you need to leave the class, YOU must fill out a Smart Pass with your destination and then pick up a pass by the door.

Honors Distinction

The Honors level curriculum distinguishes itself from CP Algebra 1 by examining concepts with greater rigor and complexity. The scope of this course is slightly larger than the CP Algebra 1 curriculum, encompassing additional enrichment topics to provide students with a more comprehensive mathematical foundation.

Students will engage with advanced problem types designed to cultivate the analytical skills necessary for success in Algebra 2 Honors.