

Algebra 2

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Algebra 2 is the culminating course in a sequence of three high school courses designed to ensure career and college readiness. It is designed to prepare students for fourth course options relevant to their career pursuits.

COURSE DESCRIPTION:

Georgia Mathematics focuses on actively engaging the student in the development of mathematical understanding by working independently and cooperatively to solve problems, estimating and computing efficiently, using appropriate tools, concrete models and a variety of representations, and conducting investigations and recording findings. There is a shift toward applying mathematical concepts and skills in the context of authentic problems and student understanding of concepts rather than merely following a sequence of procedures. In mathematics classrooms, students will learn to think critically in a mathematical way with an understanding that there are many different solution pathways and sometimes more than one right answer in applied mathematics. Mathematics is the economy of information. The central idea of all mathematics is to discover how knowing some things leads, via reasoning, to knowing more — without having to commit the information to memory as a separate fact. It is the reasoned, logical connections that make mathematics manageable. The implementation of the Georgia Standards of Excellence in Mathematics places the expected emphasis on sense-making, problem solving, reasoning, representation, modeling, representation, connections, and communication.

COURSE GOALS: Upon completion of this course, students should have a firm grasp on graphing and solving various algebraic functions. Below is a breakdown of this course by unit.

Unit 1 – Quadratics Revisited

Unit 2 – Operations with Polynomials

Unit 3 – Polynomial Functions

Unit 4 – Rational and Radical Relationships

Unit 5 – Exponential and Logarithms

Unit 6 – Mathematical Modeling

Unit 7 – Inferences & Conclusions from Data

GRADING SCALE:

A: 90 & above: Outstanding quality of work, on time, almost all problems worked out correctly

B: 80-89: Above average quality, on time, some mistakes in worked problems

C: 70-79: Average quality, on time, frequent mistakes in worked problems but concepts generally understood

FINAL EXAM & EXEMPTIONS:

Exams will be given at the end of each semester and will count 20% of the semester grade. Students may exempt semester exams for subjects in which they have an A average with 5 absences or less, a B average with 3 absences or less, or a C average with 0 absences. Students assigned in-school suspension (ISS) or out of school suspension (OSS) are **not** eligible for exemption.

COURSE ASSESSMENT:

Nine Weeks Grade = 50% (Tests) + 50% (Quizzes, class activities, and homework)

1st Semester Grade = (1st 9 weeks + 2nd 9 weeks) ÷ 2 x 80% + Semester Exam x 20%

2nd Semester Grade = (3rd 9 weeks + 4th 9 weeks) ÷ 2 x 80% + Semester Exam x 20%

SUPPLIES:

- 3-ring binder
- notebook paper, pencils, highlighters
- TI-36X Pro scientific calculator (If you purchase one, then please cut out the points and turn them in to the math department. Points will be used to redeem items for the school.) The Math Department sells them for \$25. If you want to purchase one, make checks payable to LCHS.

Bring Your Own Technology (BYOT):

LCHS encourages the use of technology to aid in educational pursuits. In Algebra 2, BYOT activities will be incorporated into the lessons from time-to-time. This means that students will be allowed to bring smart-phones, tablets, kindles, etc. to class. However, these devices will only be allowed for educational purposes at designated times. During class time, students will not be allowed to use their devices for any type of social networking, texting, making phone calls or taking pictures or videos.

Classroom Expectations

- All students are expected to read and abide by the rules listed in the student handbook – Code of Conduct, Behavior Code, Dress Code, and Discipline Procedures.
- Students are expected to comply with basic school protocol such as being prepared and on time for class, maintaining an appropriate noise level, and cleaning up behind oneself.
- No sleeping, eating, drinking, or inappropriate language.
- All assignments are expected to be turned in on time. NO late assignments will be accepted unless extenuating circumstances have been shared with the teacher and administrator. An NI is not an extenuating circumstance!
- No **TECHNOLOGY** (cell phones, tablets, etc.) unless approved by teacher.
- If you are absent, **MAKE-UP WORK IS YOUR RESPONSIBILITY!** You will need to copy all the class notes from a friend. Any make-up work not completed within three days, or work missed due to an unexcused absence, will count as a zero. If you missed a test, **see me to make arrangements.**
- Any student who is **NI (non-instructional)** due to a field trip or extra-curricular activity is required to see me **ahead** of time – not after.
- Be respectful at **all** times to **all** persons and **all** property.
- Give 100% effort daily!!! You will only get as much as you give.
- Substitute teachers are considered guests in our classroom and will be treated with the utmost respect. Any misbehavior while a guest is in our room will result in an automatic thirty-minute detention after school.

Consequences of Unacceptable Behavior

The following will occur as the result of unacceptable behavior:

- 1st offense: Warning
- 2nd offense: 30 minute detention
- 3rd offense: 30 minute detention/ Parent Contact
- 4th offense: Office Referral

A student who causes a major disruption will be sent to the office immediately. Students in after school detention may be asked to do some light housekeeping duties.

LCHS Tardy Policy:

- 1-2 Tardies - Warning
- 3rd Tardy - Lunch Detention
- 4th Tardy – Lunch Detention and Parent Contact
- 5th Tardy – After School Detention and Parent Contact
- 6th Tardy – Saturday School and Loss of Good Standing
- 7th Tarday – ISS
- 8th Tarday – ISS two days
- 9+ Tardies - Administration