

## ALGEBRA 2

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Algebra II is a two-semester, two-credit course. Topics included are listed below. This course is needed to meet the entry requirements for many colleges. It is a prerequisite for many advanced math courses. A graphing calculator is necessary.

### STANDARDS: ALIGNMENT TO THE IOWA CORE CURRICULUM

Understands and applies concepts of algebra, coordinates, transformation and trigonometric relationships.

### CONTENT - WHAT ARE WE GOING TO DO IN THIS CLASS?

Chapter 1 Linear Functions	Chapter 6 Exponential and Logarithmic Functions
Chapter 2 Quadratic Functions	Chapter 7 Rational Functions
Chapter 3 Quadratic Equations and Complex Numbers	Chapter 8 Sequences and Series
Chapter 4 Polynomial Functions	Chapter 9 Trigonometric Ratios and Functions
Chapter 5 Rational Exponents and Radical Functions	Chapter 11 Data Analysis and Statistics

### SUPPLIES

- Big Ideas Algebra 2 Textbook
- Big Ideas Algebra 2 Student Journal
- Graphing Calculator: TI-83/84
- 3 Ring Binder & Loose leaf paper, or Notebook(s) and Folder.

### INSTRUCTIONAL STRATEGIES

Instructional strategies that will be used in this course, but are not limited to are: direct instruction, active participation, graphic organizers, presentation, cooperative learning, probing questions, questioning strategies, student projects, technology, note taking, and modeling.

### GRADING & ASSESSMENTS

**Summative Assessment** - These will be unit tests or occasional problem-based assessments and the semester final. Tests will always be announced in advance. They will be worth 100 points. This will be worth 70% of your grade.

**Formative Assessment (Quizzes)** - These may be announced or unannounced. Quizzes will be used to assess student understanding of topics covered recently. Students will not be allowed to use any notes. Quizzes will not be made up since scores are replaced with the test sub score (if higher) at the end of the chapter. Quizzes will be worth 15% of your grade.

**Self Assessment (Homework Completion)** - Students are expected to check their answers on homework daily and ask questions if needed. Homework will be accepted until the day of the test for partial credit. This will be worth 15% of your grade.

#### **Grading Scale:**

93.0 - 100%	A	83.0 - 86.99	B	73.0 - 76.99	C	63.0 - 66.99	D
90.0 - 92.99	A-	80.0 - 82.99	B-	70.0 - 62.99	C-	60.0 - 62.99	D-
87.0 - 89.99	B+	77.0 - 79.99	C+	67.0 - 69.99	D+	Below 60%	F

## ACADEMIC/BEHAVIORAL CLASSROOM EXPECTATIONS

Respect school property, others and their property, the right of others to learn, the teacher, and yourself

*Additional guidelines:*

1. Know the student handbook. If it is in there, it applies in here.
2. Take care of personal business between classes.
3. Be in your seat ready to work when the bell rings.
4. Be respectful of yourself, we are here to support you.

## ABSENCES

- If you miss class FOR ANY REASON it is your responsibility to get the assignment. Be sure to pick up anything that you may have missed when you were absent.
- If you miss class on a test/quiz day, you will be expected to take the test/quiz on the day you return to school. If you miss the day before a previously announced test/quiz, you will be expected to take the test/quiz with the rest of your class. If you miss more than one day I will work with you to make other arrangements.
- Problems with absences (excused or unexcused) or tardiness will be handled according to the Senior High School attendance policy.

## RESOURCES: GETTING HELP

Working together is strongly encouraged. (Copying is not.) You will find that you can learn a lot from each other. If you are having trouble with Algebra 2 you need to get help IMMEDIATELY. Remember I am here to help you if you want to be helped. Feel free to see me if any problems arise or you need any extra help. Also the Math Lab is available in the LRC for you to get extra help. Math teachers are available during both A and D support times 5<sup>th</sup> hour to help students. Friday Academic Support Time (FAST) has tutors available Friday mornings. RAMS (Rams Assisting and Mentoring Students) has student tutors available Mondays and Wednesdays in the library. Resources to help with Algebra 2 textbook can be found at <http://clever.com/in/dbqschools>.

## COMMUNICATION

The best way to contact me with any questions or concerns is via email. I update PowerSchool after every test or quiz we take within a day or two of the assessment. It is a great way to keep track of your or your grade. If you're unsure how to access PowerSchool, please contact the main office at 552-5500.