

ALGEBRA 1 SYLLABUS

COURSE DESCRIPTION

Algebra I is a two-semester, two-credit course. Topics include Equations and inequalities will be interpreted by using tables and graphs and will be solved through algebraic transformations. Students will experience extensive work with linear equations, including systems of equations. Exponential and quadratic functions will be introduced. By being asked to apply algebraic methods to solve a variety of real world and mathematical problems, students will grow in their ability to use abstraction and symbolism. Graphing calculators will be used throughout the course and are necessary for homework completion.

STANDARDS: ALIGNMENT TO THE IOWA CORE CURRICULUM

Understands and applies concepts of algebra.

CONTENT: WHAT ARE WE GOING TO DO IN THIS CLASS?

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| Chapter 1 Solving Linear Equations Chapter 2 Solving Linear Inequalities Chapter 3 Graphing Linear Functions Chapter 4 Writing Linear Functions Chapter 5 Solving Systems of Linear Equations Chapter 6 Exponential Functions and Sequences | Chapter 7 Polynomial Equations and Factoring Chapter 8 Graphing Quadratic Functions Chapter 9 Solving Quadratic Equations Chapter 10 Radical Functions and Equations Chapter 11 Data Analysis and Displays |
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SUPPLIES

- Big Ideas Algebra 1 Textbook
- Big Ideas Algebra 1 Student Journal
- Notebook and Folder or Binder
- Graphing Calculator: TI-83/84

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, semester tests. Tests will always be announced in advance and will be 70% of the final grade. All tests must be completed within the class period. Additional time will not be allowed.

Formative Assessment (Quizzes) - These may be announced or unannounced. The test score will replace the quiz score if students demonstrate mastery of the topics on the test. Students may or may not be allowed to use notes. This will account for 15% of the 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 and will be 15% of the grade.

Grading Scale:

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|--------------|----|--------------|----|--------------|----|--------------|----|
| 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 – 72.99 | C- | 60.0 – 62.99 | D- |
| 87.0 – 89.99 | B+ | 77.0 – 79.99 | C+ | 67.0 – 69.99 | D+ | Below 60% | |

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 we 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 1 you need to get help IMMEDIATELY. Remember we are 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 library for you to get extra help. Friday Academic Support Time (FAST) has tutors available Friday mornings. The RAMS (Rams Assisting and Mentoring Students) has student tutors available in the library on Mondays and Wednesdays.

The textbook has an online resource to help you be successful. To access the online resource go to <http://clever.com/in/dbqschools> and login with your PowerSchool login credentials.

BEHAVIORAL/ACADEMIC 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. (Code of Conduct, Cheating, Etc...)
2. Take care of personal business between classes.
3. Be in your seat ready to work when the bell rings.
4. Respect yourself, your peers, and the adults in the classroom

COMMUNICATION

The best way to contact me with any questions or concerns is via email. Powerschool will be updated 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 grade. If you are unsure how to access Powerschool, please contact the main office at 552-5500.

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