

# Inverted Algebra

Mr. Sieverding

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## 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?

### Topics to be covered

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

## SUPPLIES

- Big Ideas Algebra 1 A Common Core Curriculum Textbook and Student Journal
- 1 Spiral Notebook or 3 ring binder
- Graphing Calculator TI 83/84
- Pencil

## INSTRUCTIONAL STRATEGIES

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

## GRADING & ASSESSMENTS

**Summative** - These will be chapter & semester tests. Tests will always be announced in advance. Tests are to be completed without additional aides (notes, etc.). There will be opportunities for self-reflection by students on graded tests along with the opportunity to retake portions of tests. Summative Tests are worth 70% of the final grade.

**Formative (Quizzes)** - These may be announced or unannounced. Quizzes are also to be completed without additional aides (notes, etc.). Students who miss quizzes will not be required to make up the missed quizzes. Instead, quiz scores will be replaced with the test score for the associated unit of study. Low quiz scores will be replaced with test scores if the test score is higher than that of the quiz. Formative Assessments are worth 15% of the final grade.

**Self (Homework/Classwork)** - Homework/Classwork will be assigned on a daily basis. Students will have the opportunity to ask questions on homework/classwork daily but also may check their answers at [www.clever.com/in/dbgschools](http://www.clever.com/in/dbgschools). These assessments are worth 15% of the final 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 - 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%	F

**CLASSROOM EXPECTATIONS**

Respect school property, others and their property, the right of others to learn, the teacher, and yourself. The three core values that we use throughout the school apply in this classroom: engagement, respect, and integrity. Lastly, cell phone use will not be allowed. The school policy in your handbook will be followed.

*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.

**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 day, you will be expected to take the test 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, other arrangements may be made.
- Problems with absences (excused or unexcused) or tardies 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 you need to get help IMMEDIATELY. Remember to ask your teacher when you have questions. Also Ms. Welter is available in the Math Lab (ROOM A307) for you to get extra help. The book is also online for your convenience at [www.clever.com/in/dbgschools](http://www.clever.com/in/dbgschools).

**COMMUNICATION**

The best way to contact us with questions and/or concerns is by email (listed above). Phone numbers are also listed above. Messages will be returned as soon as possible. PowerSchool is updated regularly.

Student Signature: \_\_\_\_\_