

# North Oldham High School

Mrs. Megan Rogers  
Mathematics – Room 507  
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Algebra 2 (1 credit)

Prerequisites: Algebra 1 & Geometry

School Year: 2017-2018

**Textbook:** Carter, John A., et al. Algebra 2. Columbus, OH. Glencoe/ McGraw-Hill Inc., 2003

**Online textbook and resources:** [www.algebra2.com](http://www.algebra2.com)

Username: Alg2

Password: N4c6abrada

## Requirement for credit:

Complete all class work with a 70% or greater; develop the required open response items at apprentice level or greater.

## Catalog description:

In addition to expanding the mathematical concepts of Algebra 1, emphasis is placed on preparation for the study of higher mathematics, abstract thinking skills, the function concept, and algebraic solutions of problems in various content areas. Topics include the complex number system and matrices, quadratic equations and inequalities, graphs of functions and relations, exponential and logarithmic functions, progressions and series, the binomial theorem, linear programming, and introductory work in conic section, probability and trigonometry. Appropriate use of calculators and computers is integrated throughout the course.

## Materials Needed:

- ✓ 3-ring binder and loose leaf paper **OR** spiral notebook and folder
- ✓ Pencils (absolutely no pens!)
- ✓ Graphing Calculator (TI-83+, TI-83 SE, TI-84, TI-84 SE, or TI-84+C)
- ✓ Graph paper
- ✓ **4-AAA batteries for the calculator**
- ✓ Box of Kleenex (Optional)

## Grading:

Homework/ Daily Work (10%) – Assignments will be graded based on completion and accuracy. In order to receive full completion credit, students should attempt ALL of the assigned problems, show their work, and turn the assignment in on time. Not all assignments will be taken up for a grade, but students will still be responsible for knowing the material. Late homework will NOT be accepted for full credit. The student will receive 60% credit for a late assignment.

Quizzes (25%) – Quizzes will be used to assess student learning leading up to each unit test. Some quizzes will have calculator restrictions. All major quizzes will be announced in advance. Students will not be allowed to use their notes, homework or textbook for these. Some quizzes will be unannounced and students will be allowed to use their notes or homework on these.

Tests (50%) – Tests will be given at the end of each unit. All tests will be announced. Tests are worth 100 points. Keeping all of your notes and homework will help you to prepare and study for the midterm and the end of course exam. Students will be allowed test retakes, but there are guidelines for test retakes that the student will receive separately.

Midterm (5%) – Before Winter Break in December, there will be a midterm that will assess the students on the first half of the year material.

Final (10%) – A cumulative final will be given on the last days of school to assess the students on the entire years amount of material.

### **Make-up Work:**

Make-up work for full credit only applies to absent students. If you have an excused absence, you will be given the number of days you missed, plus one day to make up your work. It is your responsibility to find out what you missed and copy the notes for that day. If your homework is not turned in on time, you will not receive full credit. If you have to make up a test or quiz, a different form may be given so that tests can be returned to other students in a timely manner. Through school policy, only 70% of an earned quiz or test grade will be given for unexcused absences.

### **Tutoring:**

Students may stay after school on designated days or come early any morning for tutoring. I am typically at school by 7:45 each morning. Students will also be able to participate in the ESS program, which will have established hours once school begins. This is a great time to get questions answered, get homework help, prepare for a test or retake a test. Take advantage of this opportunity from the beginning! Do not wait until you are completely lost and behind in your work to ask for help!

### **Classroom Procedures:**

- Once entering the classroom student should immediately get out homework from the previous lesson.
- Students should be inside the classroom before the bell rings or is considered tardy.
- Student must use PENCIL at all times during the math class!!
- When absent, it is your responsibility to come to me and ask for make-up assignments and copy the notes for that day.
- All students will remain in seats until the bell rings. If not all students are seated, we will remain in class until all students are in their seats.
- There will be absolutely NO CELLPHONES to be used unless otherwise instructed by the teacher. If a cell phone is seen or heard, I will ask you to give up your cell phone to me for the remainder of the period. If the cell phone is seen 3 times throughout the year or is refused to be given up then it will lead to a write up.

### **Expectations and Strategies for Success:**

- ✓ Be Punctual. (Be in your assigned seat when the bell rings.)
- ✓ Be Prepared. (Bring all materials to class each day. Do all work in pencil!)
- ✓ Be Productive. (Stay on-task and actively participate in class. Ask Questions!)
- ✓ Be Positive. (Don't give up when faced with a challenge!)
- ✓ Be Polite. (Show respect to your teacher, classmates, and classroom.)