

Honors Algebra 2  
Mrs. Bowers

Welcome to the 2011 Spring Semester!

***Course Description from NCDPI:***

Honors Algebra 2 continues students' study of advanced algebraic concepts including functions, polynomials, rational expressions, systems of functions and inequalities, and matrices. Students will be expected to describe and translate among graphic, algebraic, numeric, tabular, and verbal representations of relations and use those representations to solve problems. Emphasis will be placed on higher order thinking skills that impact practical and increasingly complex applications, modeling, and algebraic proof. Appropriate technology should be used regularly for instruction and assessment.

**Prerequisites:**

- Operate with matrices to solve problems.
- Create linear models, for sets of data, to solve problems.
- Use linear functions and inequalities to model and solve problems.
- Use quadratic functions to model problems and solve by factoring and graphing.
- Use systems of linear equations or inequalities to model and solve problems.
- Graph and evaluate exponential functions to solve problems.

***Materials Needed Daily:***

- 3-ring binder (1½" - 2")
- 2 pencils (NOT pens, we will erase frequently)
- 10 dividers (one for each unit)
- completed homework assignment
- textbook (when required)
- TI-83 plus/TI-84 plus calculator

***Classroom Wish List:***

(If you have the opportunity to donate any of these, it would be greatly appreciated.)

- Kleenex
- colored pencils
- pencils
- copier paper (white and/or colored)
- notebook paper
- band aides

***Calculators:***

The TI-83/TI-83+/TI-84+/TI-84 Silver Edition is the calculator that we will be using this year. It is an integral part of the Algebra 2 curriculum. In order for your child to be comfortable and efficient with the calculator, we strongly suggest that he/she purchase one for use at home and at school. Teachers will have some calculators for in school use only. The NC EOC (end of course) test in Algebra 2 assumes that all students are proficient with this technology. Although these calculators are expensive, students will be able to use them during their entire high school career. Shop around for the best price in your local office supply stores or on-line. If you purchase a calculator, ***please bring me the UPC scan bar***. TI has proof-of-purchase program for schools that will exchange UPC labels for free equipment and/or software.



### ***Classroom Policies and Rules:***

1. Respect yourself, others and school property.
2. No food or drink is allowed in the classroom. (school rules)
3. Be in your seats ready to work when the bell rings. This means that your pencil should be sharpened, your homework out, and you are beginning to work on the warm up activity.
4. **NO CELL PHONE USE INCLUDING TEXTING!** This is a school rule. We are no longer allowed to confiscate cell phones. If you are using a cell phone during class we are required to write you up on a long form and you must face the consequences of a long form write-up.
5. Cheating will not be tolerated! Anyone who is caught cheating will be given a zero, regardless of if it is on a test, quiz, or homework.

### ***Make-Up Procedures:***

After an absence, it is **YOUR** responsibility to get your make-up work from the make-up folder. If you are absent on a test/quiz day, you are responsible for making up the test/quiz. See me to schedule a time that fits both of our schedules, before the next test.

### ***Tutoring:***

Tutoring is available! If you are struggling, please see me about additional help before or after school.

### ***Grading Practices:***

A test is your opportunity to show that you have mastered each objective in the unit. In order to master each objective, it is imperative that you practice the skill by completing all daily class work/homework assignments.

### ***Grading:***

Tests	60%
Quizzes	15%
Homework*	15%
Alternative Assessments	10%

\*Homework will be assigned and checked DAILY. Late homework will not be accepted.

### ***Alternative Assessments:***

Alternative assessments can include projects, writing assignments, portfolios, class work activities, and cumulative reviews. We will have at least one project this semester. Depending on time, we will try to have as many alternative assessments as possible.

### ***Algebra 2 Curriculum:***

Linear Equations & Functions	Parabolas
Systems of Equations/Inequalities & Matrices	Conics
Polynomials	Rational Expressions
Radicals	Logarithms & Exponential Functions
Quadratics	EOC Review

**\*\* The North Carolina Standard Course of Study for Algebra 2 guides our curriculum.**

## A Special Note to Students and Parents/Guardians:

The skills in Algebra 2 are very sequential. It is imperative that students have mastery of each objective to proceed to subsequent topics. I will do everything I can to help your child be successful. Your help is needed in three areas: ***attendance, homework and parental support.***

- 1) Attendance is crucial in every subject but is vital to the learning process in math. I urge you as parents to do everything you can do to assure your child is in math class every day. The block schedule that we will use this year moves quickly and your child will miss many objectives after a single absence.
- 2) Homework is a requirement in this course, not an option. Students cannot be successful without practice. Expect your child to spend 30 to 45 minutes on math each night.
- 3) If possible, please e-mail me so that I have your e-mail address on file. Please include your child's name in the message.

If you would like to discuss your child's progress, please feel free to call me at school or e-mail me. You can reach me during my planning time, before or after school given the following information. I welcome the chance to meet you and work with you to make this a successful year for your child. By signing and returning the portion of this document below, you acknowledge receiving and reading the information provided on the previous pages.

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Phone: 732-6133 ext. 20505  
Room: # 402  
Planning: 2<sup>nd</sup> block (11:20 - 12:45)

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(Please return this portion)    Period: \_\_\_\_\_    Mrs. Bowers    Honors Algebra 2

Student Name (please print): \_\_\_\_\_

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

Parent Signature: \_\_\_\_\_    Date: \_\_\_\_\_

Phone number where the parent can be reached during school hours \_\_\_\_\_

Parent's E-mail address \_\_\_\_\_

Is there anything that you feel I need to know about your child to ensure his/her success in Honors Algebra 2?