

# Honors Algebra 2

Mrs. Burby – room 416

Email: [burbyl@wellesleys.org](mailto:burbyl@wellesleys.org)

## Topics to be covered in Algebra 2 Honors include:

- Absolute Value Functions  
*Solve equations and graph functions.*
- Function Notation & Composite Functions
- Transformation of Functions
- Quadratic Functions  
*Solve equations by factoring, completing the square, taking the square root, and the Quadratic Formula. Graph quadratic functions using standard form, intercept form, & vertex form.*
- Complex Numbers
- Piecewise Functions
- Simplify Radicals & Solve Radical Equations
- Polynomial Functions  
*Add, subtract, multiply, divide, & factor polynomials. Graph polynomial functions.*
- Power Functions
- Exponential Functions  
*Apply properties of exponents. Graph exponential functions.*
- Logarithmic Functions  
*Apply properties of logarithms. Graph logarithmic functions.*
- Statistics  
*Use mean, median, mode range, standard deviation and the Normal Distribution to analyze data.*
- Angles & Trigonometry  
*Special Right Triangles, SOHCAHTOA, Angles in Standard Position, The Unit Circle*
- Rational Functions  
*Add, subtract, multiply, divide, & simplify rational expressions. Graph rational functions.*

## Supplies you will need to bring to class:

- 3-ring binder with loose-leaf paper. Graph paper will be helpful.
- Pencil (All math work should be done in pencil!)
- A TI-83 or TI-84 graphing calculator

You may leave your textbook at home.

## Cell Phones:

Technology provides us with some extremely powerful resources, but it can also lead to great distractions. The *Student Handbook* states “the use of handheld electronic devices is prohibited during class time without express teacher approval.” At the beginning of class, it is an expectation that you will turn your phone off (or turn it on silent mode) and place it in an assigned numerical “parking lot” space assigned by your teacher. You are not permitted to have the phone on your person during class. The cell phone parking lot is located in a secure and visible location in the classroom. Cell phone retrieval will occur at the end of class.

## Homework:

Homework is assigned so that you are able to:

- Practice solving problems relating to the ideas and concepts you have learned in class.
- Use problem-solving skills to work through problems you may not immediately know how solve.
- Find questions to ask in class.
- Prepare yourself for assessments

**Homework assignments and assessment dates will be posted on the calendar in Canvas.** Homework may not be announced during class. Assignments are posted on Canvas on the day they are DUE.

**The Algebra 2 Honors grade is calculated using the following weighting:**

**Term 1: 22%**

**Term 2: 22%**

**Term 3: 22%**

**Term 4: 22%**

**Final Exam: 12%**

Grading Policy for the Term:

The grade a student receives at the end of a term reflects the student's level of understanding of the mathematical concepts covered during the current as well as previous term(s). Students are given an opportunity to demonstrate their understanding of material through four assessments each term, one of which is an end-of-term cumulative assessment.

An End-of-Term Cumulative Assessment will be given each term. The purpose of the cumulative assessment is to allow students an opportunity to demonstrate they have mastered and retained previously assessed mathematical concepts.

All assessments will remain in the classroom. Students will be given time to process feedback on each assessment during class time. If students wish to spend more time reviewing their performance feedback on any given assessment, then they are encouraged to communicate this to their teacher. An appointment will be made to spend more time reflecting on the assessment outside of regular class time.

**The term grade will be calculated as follows:**

➤ <b>Homework</b>	<b>0%</b>
➤ <b>Term Assessments (3 per term)</b>	<b>45%</b>
➤ <b>End-of-Term Cumulative Assessment</b>	<b>30%</b>
➤ <b>Higher of the Term Assessment Average or the score on the End-of-Term Cumulative Assessment</b>	<b>25%</b>

Academic Integrity:

Please be sure to read the Student Handbook policy on academic integrity. Any incident of cheating will result in a grade of zero and a phone call home. Cheating includes, but is not limited to, copying assignments, lending assignments to be copied by others, programming graphing calculators with information you are supposed to know without assistance, use of "cheat sheets" during assessments, etc. Repeated incidents of cheating could result in a zero for the course. Don't jeopardize your integrity. Cheating, in any form, is NEVER worth it.

Attendance:

It is expected that you will be in class, on time, each time our class meets. If you are absent, please check the homework calendar on Canvas for the assignment. **If there is a test or quiz given on a day you are absent you are expected to make it up the day of your return.**

The Classroom:

I expect this to be a safe classroom. Derogatory comments will not be tolerated. If you feel there is a problem that I have missed, please tell me as soon as possible.

Extra Help:

My extra help schedule will be posted on Canvas. Please arrange to see me for extra help before or after school if you have any questions or feel that you are starting to fall behind.

Math Lab:

The math lab is an additional resource for students who have questions about the math curriculum they are studying. Students are invited to attend when they have a directed research or free block and have questions about homework, assessments or concepts.

Students coming to the lab are expected to come prepared with their work and questions. While there may be times when a student will be able to work one-on-one with a teacher for a length of time, this is not the norm.

The lab is held in *room 452 during block A and in 427 during all other* blocks when a teacher is assigned.

Math Lab Schedule  
Room 452 - Block A  
Room 427 - Blocks B - F  
2019 - 2020

	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5	DAY 6	DAY 7
<b>BLOCK A</b> 7:30 - 8:29	Mrs.Giancioppo Mrs. Burby	Ms. Smith Mr. Brown	Ms. Smith Mrs. Burby	Dr. Cohen Mr. Brown	Mr. Fantini Dr. Cohen	Mr. Fantini Ms. Smith	Mrs.Giancioppo Mrs. Burby
<b>BLOCK B</b> 8:34 - 9:33	Mr. Fantini	Mr. Brown			Mr. Fantini		
<b>Advisory</b> 9:38 - 9:46							
<b>BLOCK C</b> 9:51 - 10:50			Mr. Brown				Mr. Brown
<b>BLOCK D</b> 10:55 - 12:22	Mrs.Giancioppo	Dr. Cohen	Dr. Cohen	Mrs.Giancioppo	Ms. Smith		
<b>BLOCK E</b> 12:27 - 1:26							
<b>BLOCK F</b> 1:31 - 2:30		Ms. Smith	Mrs.Giancioppo	Dr. Cohen	Mrs. Burby	Mr. Fantini	Mrs. Burby