

Algebra II Syllabus (2021-2022)

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*"Mathematics is not about numbers, equations, computations, or algorithms; it is about understanding."
~William Paul Thurston*

Welcome to Algebra II! I am so excited to get to know you this year and help guide your learning and understanding of the beauty of mathematics! This year we will focus primarily on algebraic functions. As we progress in this course you will learn content that is beginning to increase in algebraic rigor. I would encourage you all to keep the following in mind: remember that in those moments or days where this course seems difficult and you are tempted to give less than your best, that we are also training life habits and skills. Even if you continue on in life and never rationalize denominators or define relevant function domains, there is so much value in the perseverance, discipline, the stretching of your mind, and learning to problem solve. These skills will serve you well for the rest of your life. So, this year as you study and learn Algebra II, understand that the content is important (learn it well,) and **more importantly** understand that Algebra II is a medium through which we teach invaluable life lessons and offer you the chance to grow as young men and women.

Class Expectations:

Come **prepared** for success. Demonstrate **respect** at all times. Always work with a **positive attitude**.

Course Outline: HMH into Algebra 2, 2020

In this course we will cover the following Algebra 2 topics:

- functions, equations, and graphs
- quadratic equations and functions
- polynomials and polynomial functions
- radical functions and rational exponents
- exponential and logarithmic functions
- rational functions and equations
- sequences and series
- periodic functions and trigonometry

Supplies:

- TI-83 or TI-84 graphing calculator (**If you choose another model, you are responsible for learning how to operate it. You will **not be allowed** to use iPhones, iPads, smartphones, tablets, etc.*)
- Students need a method for taking notes (lined paper, notebook, spiral, etc) as well as a way to organize papers such as handouts, quizzes, homework (a binder is recommended).
- #2 pencils or mechanical pencils with good erasers
- Colored pen or pencil for grading (not black)
- 1 pack dry erase markers (4)
- 1 family size box of tissues or container of Clorox wipes or hand sanitizer

Academic Integrity:

- Students are expected to do their own work. It is considered cheating if you copy someone else's work. Academic dishonesty will not be tolerated.
- Students may discuss and collaborate on homework, but each student involved should understand what they are writing down as their work.

Grading Percentages/Grading Scale:

- 20% Homework
- 20% Quizzes
- 60% Assessments (including the final)

A 93 – 100	B 83 – 86	C 73 – 76	D 63 – 66
A- 90 – 92	B- 80 – 82	C- 70 – 72	D- 60 – 62
B+ 87 – 89	C+ 77 – 79	D+ 67 – 69	F 0 – 59

Homework:

- Expect homework to be assigned on Mondays, Wednesdays, and Fridays, which will be due at the BEGINNING of class the next day the class meets.
- The schedule of assignments will be handed out at the beginning of each unit.
- Students can expect to spend 20-30 minutes on homework each night.
- Homework must be in **pencil** and **written legibly**. (I can't grade what I can't read or follow.)
- **Work must be shown** to receive full credit.
- Late work:
 - Up to 50% credit will be given for late work turned in before the unit test.
 - Late work will not be accepted after the unit test.

Absences:

- When absent, students are expected to:
 - Get the notes from a classmate or by setting an appointment with me
 - Read through the lesson in the book
 - Attempt the HW assignment
 - Come with the notes you have taken and specific questions if you still need help

Assessments:

- Students will be quizzed on Wednesdays and Fridays to monitor their learning.
- Quizzes will be short (5-10 minutes) and will cover material that has been practiced and assessed through the homework.
- If a student is absent on the day of a quiz, he/she is expected to take it upon return to school.
- A cumulative assessment will be given at the end of each unit.
- Missing a review day prior to a test does not excuse a student from on-time testing.

Additional Help:

- Math concepts build upon one another, so please reach out for help at the first sign of trouble.
- I am available for extra help by appointment before school and during flex.

Online Resources:

- HMH intoAlgebra2 Online: Students will have access to an online version of the textbook as well as many helpful online resources from the publisher. Details on how to access these resources will be provided in class.
- Khan Academy: Another outstanding resource is **www.khanacademy.org**
Here you will find videos and practice problems for the topics we will be covering in class.

**If changes arise this year, I will communicate the necessary adjustments with parents and students.*