



**Mount Hebron High School**  
**9440 Old Frederick Road**  
**Ellicott City, MD 21042**  
**410-313-2880**  
**Fax 410-313-2543**  
**Syllabus**



**Course Title:**                    **Algebra 2GT**

**Teacher Name:**                **Michelle Vealey**     [Michelle\\_Vealey@hcpss.org](mailto:Michelle_Vealey@hcpss.org)

**Website:** <http://vealeymath.weebly.com>

**Course Description:**

Algebra 2GT builds on the concepts of Algebra 1. Students extend their knowledge of functions (linear, exponential and quadratics) to include logarithmic, polynomial, rational, radical and trigonometric functions. In addition, students will develop a basic understanding of the statistics used in hypothesis testing. Technology is an integral part of this course; students use graphing calculators to deepen their understanding of algebra.

**Office Hours:**                    Wednesday, Thursday, Friday in room 201 from **2:15-3:00 pm**  
Tuesday, Thursday in room 201 before school **by appointment**

**Texts, Supplies & Learning Materials:**

**Notebook** – a 2 inch loose leaf binder with filler paper is recommended as there are many materials distributed in class.

**Pencils**

**TI-84** graphing calculator (any version is acceptable)

**Learning Objectives/Outcomes:**

At the conclusion of this course it is expected that students will have demonstrated the Standards for Mathematical Practice:

- Make Sense of problems and persevere in solving them.
- Reason abstractly and quantitatively.
- Construct viable arguments and critique the reasoning of others.
- Model with mathematics.
- Use appropriate tools strategically.
- Attend to precision.
- Look for and make use of structure.
- Look for and express regularity in repeated reasoning.

**Topics of Study:**

Unit 1: Introduction to Families of Functions

Unit 2: Exponential and Logarithmic Functions

Unit 3: Inferences and Conclusions from Data

Unit 4: Expanding Understanding of Quadratic Functions

Unit 5: Polynomial Functions

Unit 6: Radical and Rational Functions

Unit 7: Trigonometric Functions

**Classroom Cell Phone Policy:**

Since students are permitted use cell phones to text, listen to music and search the web between classes and at lunch, cell phones are not to be used during class except when directed to do so as a part of a lesson. Failure to adhere to this policy is insubordination.

**Homework Policy:**

Homework must include written work. Credit will not be given for home assignments that consist of answers only. Homework will be checked and documented daily. Occasionally homework will be collected and scored for an additional grade. Late homework will not be accepted except as a result of a legal absence.

**Grading Policy:**

Students will have opportunities to receive grades in the following categories: homework assignments, class work assignments (including projects and presentations), quizzes and tests.

Points will be given for each assignment. Then a percent grade will be calculated for each category. Finally the quarter grade will be calculated using the weights shown in the table.

Category	Percent of the Quarter Grade
Homework	10%
Classwork, Projects & Presentations	20%
Quizzes & Tests	70%

The final percentage will be used determine the student's grade as shown in the table on the right.

Percent Interval	Quarter Grade
90-100	A
80-89	B
70-79	C
60-69	D
0-59	E

I will make every effort to post student grades promptly.

If a student is absent and the absence is legal, the student will have as many days as he/she was absent to turn in any missed homework.

An absence immediately prior to a test or quiz **does not** excuse a student from the test or quiz.