



## Honors Math 3 Syllabus Fall 2016



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**Course Description:** This course is designed so that students have the opportunity to expand their knowledge from Honors Math 2. The Honors Math 3 course will expect students to engage in higher-level problem solving and be responsible for their learning. Students will broaden their repertoire of functions to include absolute value, cubic, exponential, logarithmic, polynomial, and rational functions. Students will bring together all of their experience with functions and geometry to create models and solve contextual problems. They will deepen their study of right triangle trigonometry to include the study of trigonometric functions to model simple periodic phenomena and the unit circle. Finally, students will apply methods from statistics to draw inferences and conclusions from data. Appropriate technology and tools, including manipulatives and calculators, will be used regularly for instruction and assessment. The delivery of this course stresses real-life applications and developing mathematical literacy and problem-solving strategies. This course fulfills the North Carolina high school graduation requirement for Math 3.

**Supplementary Materials (Provided in Class):** Core-Plus Mathematics Textbook,  
Graphing Calculator

**Other Materials Needed (Purchased by Student):** 3-ring binder, spiral bound notebook, paper, pencil, 4 AAA batteries, head-phones, expo marker(s)

### **Classroom Rules/Expectations:**

1. Students are expected to be in class and ready to work when the tardy bell rings.
2. Students are expected to come to class prepared (notebook, pencil, homework, and laptop).
3. Students are expected to respect others and their property.
4. Students are expected to follow the school policies and rules (No Cell phones in class.).
5. All assignments need to be turned in at the beginning of class or points will be deducted.
6. Students are expected to follow the social contract agreed upon in class.

### **Group Work Rules/Expectations:**

1. Every member of each group is responsible for all work.
2. If there is a disagreement, form a consensus, not a majority rule. Be constructive and respectful.
3. Be open to other members' ideas and encourage their participation. Make sure no one is left out.

### **Attendance:**

You are responsible for obtaining missed assignments due to absences. *You must see me to discuss missed work as soon as possible to receive maximum credit.* When absent, it is the **student's responsibility** to request make-up work from the teacher. Tests and/or quizzes can be made up after school, which can be arranged based on the teacher and student's schedule. **Make-up work will only be given when there is an absence. All other work must be turned in on time. Points will be deducted for late work.**

## Grading Policy:

<u>Grading Percentages:</u>	
Quizzes	30 %
Tests	50 %
Classwork/Homework	20 %

<u>Final Grade Calculation:</u>	
Quarter 1:	40 %
Quarter 2:	40%
Final Exam:	20 %

*A final exam will be given for the course. The exam is a state made comprehensive exam.*

## Course Schedule:

This course covers the given units in the following order. The times given are suggestions plus or minus days at the discretion of the teacher. Due to the rigor of this course time constraints may vary according to the needs of the students.

1- Functions	Semester: 10 days
2- Inverses, Exponentials, and Logarithms	Semester: 9 days
3- Polynomial Functions	Semester: 10 days
4- Rational Functions	Semester: 7 days
5- Circles	Semester: 10 days
6- Trigonometric Functions	Semester: 10 days
7- Two-Dimensional Geometry	Semester: 8 days
8- Three-Dimensional Geometry	Semester: 8 days
9- Statistics	Semester: 8 days



## After-school Tutoring:

I will be available for after-school tutoring on Wednesday afternoons 3:30 - 4:00. This is the best time to get one-on-one help if you are struggling in class.

**Click and complete the [Parent information Form](#)**

**If you have any questions, please call or email at any time and I will try to get back to you as soon as possible. I look forward to challenging you this semester.**

*Karie Houck*