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## **Common Core High School Math 3 A&B**

Mr. Smith

### **Course Overview**

Common Core Math 3 students will expand their understanding of area and volume with geometric modeling, which students will apply throughout the course as they learn new types of functions. Students will study polynomial, radical, logarithmic, rational, and trigonometric functions. They will also learn how visual displays and statistics relate to different types of data and probability distributions.

### **Class Materials**

Scientific Calculator (with graphing capability)  
Pencils/ pens

### **Grading Policy**

Grade will be divided into the following categories over the course of each semester:

- ✱ Daily Work (Homework and Classwork) 30%
- ✱ Projects 15%
- ✱ Quizzes 15%
- ✱ Unit Exams 30%
- ✱ Final Exam 10%

### *Grading Scale*

A	90 to 100
B	80 to 89
C	70 to 79
NC	0 to 69

### *Homework*

Students will complete daily homework assignments consisting of problems from the textbook. Homeworks may be handwritten or typed in a professional manner, however a physical assignment must be submitted at the start of class to be graded. Homework assignments will be graded based on completion/ attempts of all problems and sufficient work to demonstrate problem solving skills being shown. Students may receive completion credit by attempting all problems, or by providing a written explanation of what specific concepts they are struggling with on *each incomplete problem*. Students may use calculators, and utilize all provided resources (textbook, notes, supplemental resources, ect.) to complete their assignments. Collaboration with other students and the usage of external resources

is permitted, however students must complete their own work, and be able to explain all solutions to teachers upon request.

### *Quizzes*

Students will take quizzes every 2-4 textbook sections. Unless otherwise specified, the use of calculators is permitted on all quizzes. Students will also be allowed to reference any notes that they have created, completed homework assignments, and handouts provided by the teacher. Collaboration and the use of resources, other than those listed above, is prohibited unless explicitly specified. Corrections will not be available for quizzes.

### *Unit Exams*

At the conclusion of each unit, students will take a comprehensive exam of all concepts covered in that unit. Students will be allowed the usage of a calculator and be permitted to bring a single page, of standard printer or notebook paper, note sheet of their own creation. Unit exam corrections will be allowed, and are explained below.

### *Late Work*

Students may receive no more than 70% for any late assignment. Any missing or late assignment may be submitted up to two school days after the assignment is marked missing in PowerSchool. Exceptions to this policy may be requested by the student in writing or email. The instructor will make the final determination on extension requests and will inform the student of the decision in writing or email.

### *Corrections/ Retakes*

If a student receives below a 70% on a **unit exam**, they may choose to complete either corrections or a retake. Corrections/ retakes must be completed within one week of the assessment being returned for students to receive credit. To complete corrections/ retakes, students must notify their teacher at least 24 hours in advance to find a time during school hours (before or after school, class, and lunch are all valid times) to complete their work in the presence of a MTCHS staff member. Students may start and stop work on corrections/ retakes during the day, however they must turn in all materials to a staff member while not actively working. Students will have until the end of the day (3:00 pm) to complete their chosen corrections, after which no additional work will be accepted. For corrections, students may receive **up to 50%** of their lost points back by providing (on a separate sheet of paper) a detailed explanation of why they got the incorrect answer and work leading to the correct answer. For corrections, students are allowed to use any resources available. For a retake, students may receive **at most a 70%** and are only allowed the resources permitted on the original exam. Only one retake is allowed per unit exam, with the retake grade replacing the original regardless of the score.

### *Workplace Skills*

In order to prepare for the internship, students will be instructed and assessed on the MTCHS Framework skills. This is done throughout the course and woven into various activities. Sophomore year, students will focus primarily on Self Motivation and Decision Making skills.

## **Course Units Semester 1**

Geometric Modeling

Linear and Quadratic Functions

Polynomial Functions

Rational Exponents and Radical functions

## **Course Units Semester 2**

Exponential and Logarithmic Functions

Rational Functions

Sequences and Series

Trigonometric Ratios and Functions

Trigonometric Identities and Formulas (time permitting)