

# MONTE VISTA CHRISTIAN SCHOOL

## MATH 3 - 8th Grade Math

Trista Maestas

### Course Syllabus

#### **Course Description:**

Developing foundational skills that support algebraic reasoning is necessary to enter into higher math and science courses. These foundations include ratios, proportionality, expressions, and equations. The careful development of these topics creates a deep and solid foundation for high school Algebra 1 and prepares students for success in higher mathematics and science courses.

#### **Curricular Mapping:**

This course will continue to build upon students' knowledge of the basic arithmetic concepts from 6th and 7th grade along with deepening their understanding of the foundational skills for Algebra 1.

#### **School Objectives/ESLRs (Expected School-Wide Learning Results):**

A graduate of Monte Vista Christian School:

- a. Is technologically fluent in current, mainstream computing technologies.
- b. Demonstrates comfort using and adapting to new technologies and operating computing hardware and software.
- c. Demonstrates responsible **digital citizenship**, in particular with respect to safety, ownership rights, collaboration, publication, privacy, security and digital footprints.
- d. Demonstrates competence in transmitting digital data without the use of paper.
- e. Demonstrates competence in producing digital products, such as but not limited to notes, essays, projects, and presentations.
- f. Demonstrates on-line research competence to find answers and solve problems in real time scenarios.

#### **Course Objectives:**

Upon the successful completion of this course the student will be able to:

1. Know that there are numbers that are not rational, and approximate them by rational numbers
2. Work with radicals and integer exponents
3. Understand the connections between proportional relationships, lines, and linear equations
4. Analyze and solve linear equations and pairs of simultaneous linear equations
5. Understand congruence and similarity using physical models, illustrations, and Apps.
6. Understand and apply the Pythagorean Theorem
7. Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres
8. Define, evaluate, and compare functions

### **Texts:**

Your necessary digital texts for this class are part of a “Required Course Materials Fee” thru the EdTech bookstore. This bundle has your students schedule preloaded and the bulk of their required course materials already prepackaged for you. You were sent an email on 7/25/16 with detailed instructions for purchasing and activation. Please note: some courses may require additional purchases outside of the course materials fee.

### **Required Materials-**

Every student is required to bring the following items to class each day:

- iPad that is charged and has the digital text book downloaded.
- A one-inch 3-ring binder dedicated to math only with four dividers
- Graph paper
- Pencil pouch containing the following:
  - Pencils (preferably mechanical)
  - Red pens for correcting
  - Dry erase pens
  - Sock for erasing dry erase pen
  - 6in. ruler with centimeters
  - Protractor
  - Scientific Calculator like Texas Instruments TI-30XIis
- Colored Pencils
- Docreri, Explain Everything, or another screen cast iPad App

### **Course Outline**

This course is designed to give the student a thorough understanding of the concepts needed for a rigorous algebra program and, therefore; to prepare the student to achieve mastery in the following areas:

1. Real Numbers, Exponents, and Scientific Notation
2. Proportional and Non-proportional Relationships and Functions
3. Solving Equations and Systems of Equations
4. Transformational Geometry
5. Measurement Geometry
6. Statistics

Homework is assigned 4-5 nights per week with intermittent quizzes and tests during and after each chapter.

### **Grading:**

All student grades will be weighted as follows:

Homework Notebook 20%

Quizzes 25%

Tests: 40%

Projects and Participation: 15%

## **School Policies:**

Students are subject to all academic policies of the school as printed in the Student Handbook, available online. Furthermore, it is each student's responsibility to read and follow all academic policies of the school.

## **Class Policies:**

### **1. Attendance**

Consistent attendance contributes to success in class. Students who are part of the learning process in class find the homework easier and understand the materials better. Missing more than one day usually requires some kind of tutoring for the student to catch up, so make every effort to come to class and actively participate while you are there.

### **2. Tardiness**

Students need to be in their assigned seat and have their materials ready to begin class when the bell rings. Materials include a pencil, math journal, homework, and pen ready to grade. A student who is not ready to begin class when the bell rings is subject to be marked tardy.

### **3. Late Work Policy**

Homework will be accepted one day late for up to 50% credit. Students will lose 10% per day for late projects/presentations.

### **4. Absent work**

Students with excused absences will have the same number of days to complete missed assignments and tests as the number of days they were absent.

### **Make-Up Work**

Our grading policy allows for make-up work for excused absences. Students with excused absences will have the same number of days to complete missed assignments and tests as the number of days they were absent. For example, a student with two days of excused absence will have two days to complete all make-up work. It is the student's responsibility to determine what work or tests were missed and to make arrangements with the teacher to make up the work. ***A student absent on the day of a test must be prepared to take the test upon his/her return.*** Students are expected to turn work in on time.

### **5. Assignments**

In order to receive credit on an assignment, a student must:

- Attempt all of the assigned problems.
- Show all work in pencil.
- Include first and last name, date, period, and the assignment in the heading.

## **6. Exams**

- If a student is absent the day of a test/quiz, he/she will be expected to make up that exam on the day they return to class.
- Students need to be prepared for tests/quizzes by having a scientific calculator if needed. They **will not** be allowed to use graphing calculators, iPad calculator Apps, or cell phones on quizzes or tests.
- Talking during a test, not keeping answers or work covered, or looking at someone else's work may result in a zero grade for that test or quiz. Anyone cheating or allowing others to cheat will receive a zero on that assessment.

### **Tips for the Students:**

- Charge your iPad every night
- Take good notes
- Do your homework
- Participate both individually and in group projects
- Ask questions

### **Instructor Contact:**

1. **Office location and hours:** M4, 3:20-4:00 or make an appointment.
2. **Email:** [tristamaestas@mvcs.org](mailto:tristamaestas@mvcs.org)

MONTE VISTA CHRISTIAN SCHOOL

MATH03

Trista Maestas, Instructor

Terms of Agreement

This syllabus is a contract between the instructor and the student with a parent/guardian witness. As an instructor of this course, I am committed to abiding by this syllabus. As a student of this course, you also are expected to abide by this syllabus. By signing this Terms of Agreement, you are affirming that you have read and agree to abide by the guidelines, policies and agreements stated in this syllabus.

As a parent/guardian, I have read and agree to support this student in an effort to follow the guidelines, policies and agreements stated in this syllabus.

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Parent Signature

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Date

As a student of this course, I have read and agree to abide by the guidelines, policies and agreements stated in this syllabus.

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Student Signature

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Date