

MONTE VISTA CHRISTIAN SCHOOL

MATH 2 7th Grade Math

Trista Maestas

Course Syllabus

Course Description:

This course deepens the students understanding of addition subtraction multiplications and division of integers as well as rational numbers. This deeper understanding then enables the student to work with expressions and equations at a higher level; using this information to solve two-step equations and inequalities.

Curricular Mapping:

This course will continue to build upon students' knowledge of the basic arithmetic concepts from 6th grade along with deepening their understanding of rational numbers and geometry. Which will prepare them for future challenges in 8th grade math.

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. Perform operations with positive and negative integers
2. Convert rational numbers from one form to another i.e.: fractions to decimals
3. Perform operations with rational numbers
4. Know the difference between a rate and a ratio and calculate unit rates
5. Identify and graph a proportional relationship
6. Calculate percent of change
7. Evaluate expressions containing variables
8. Write and solve two-step equations
9. Write and solve two-step inequalities
10. Identify angle relationships

11. Calculate area and volume for a variety of shapes and solids
12. Calculate mean median and mode and analyze and compare sets of data
13. Know the difference between theoretical and experimental probability and calculate the probability

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 math 3, therefore; to prepare the student to achieve mastery in the following areas:

1. Adding, Subtracting, Multiplying and Dividing Integers and Rational Numbers
2. Ratios and Proportionality
3. Expressions, Equations and Inequalities
4. Modeling Geometric Figures - Circumference, Area and Volume
5. Statistics – Analyzing and Comparing Data
6. Experimental and Theoretical Probability

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 red 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

MONTE VISTA CHRISTIAN SCHOOL

MATH02

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.

Parent Signature

Date

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

Student Signature

Date