

Advanced Math 3

Mr. Fitzpatrick

2021-2022

Overview

Math 3 is an integrated math course that incorporates the state's common core standards and the Standards for Mathematical Practice. The purpose of Math 3 is to develop students' ability to think mathematically and develop their conceptual understanding of mathematics and gain procedural fluency in mathematics. Math 3 will extend the mathematics students learned in earlier grades and begin the development of concepts in Polynomials, Exponential and Logarithmic Functions, Trigonometry, and Statistics. The critical topics of this course are:

- Linear Functions and Systems
- Polynomial Functions
- Rational Functions
- Rational Exponents and Radical Functions
- Exponential and Logarithmic Functions
- Trigonometric Functions
- Trigonometric Equations and Identities
- Data Analysis and Statistics
- Coordinate Geometry
- Circles, 2 and 3 Dimensional Models

The use of models, or real-world situations, graphs and diagrams will help students view how mathematics is a set of related topics as opposed to a set of discrete topics. Students will solve problems graphically, numerically, and algebraically, and will make verbal connections between these representations. Students routinely use the standards for mathematical practice to make sense of problems, justify solutions and conclusions, model with mathematics, and will strategically use technology to analyze and solve real-world problems.

Goals for this course:

- Make sense of problems and persevere in solving them. Learn from your mistakes.
- Reason abstractly and quantitatively.
- Model information with mathematics.
- Use appropriate tools and strategies.
- Attend to precision.

Grading

Grade scale:

A – 90% - 100%

B – 80% - 89%

C – 70% - 79%

D – 60% - 69%

F – 0% - 59%

Grades are based on homework, classwork, participation, tests, quizzes, projects, and other assignments with tests and quizzes comprising 75-80% of your grade.

Learning in the Pandemic Environment

While working on assignments at home, it is very easy to use Photomath, Google, or get help from others to complete the assignment. However, you are not learning if YOU are not doing the work. We learn from mistakes. When you do your own work, either you practice the skill correctly, which helps you retain the skills for future use, or you make mistakes and then know what questions to ask. Even when you make mistakes, you have tried processes and have learned some things. When you ask questions, your brain is better able to hold information after that. If you learn the material and concepts, you are prepared and able to continue with the next concept and you are able to be successful at the next level of math. If you are not doing your own work, you are going to have a very difficult time in the near future. If you need help → ASK!

We know this is a difficult and stressful circumstance. And we are here to help you through it. Ask questions. Deal with the things you can control, and don't spend time stressing over and worrying about the things you can't control. You can do this! And you will be proud of yourself for your success.

Homework: Homework will be assigned every night. It will be due either that night or the next day. Late homework will not receive credit. Students who are absent are still responsible for the homework assigned that day. Students will be given two days for each day of illness to make up work. Homework done in Saavas must be 80% correct to earn credit. You need to communicate with the teacher if you have made up work due to absence. Mr. Fitzpatrick does not go back and look for late work turned in.

Required: Students should have a scientific calculator.

Expectations

Respect, Responsibility and Honesty. Respect your classmates, the classroom, and the learning environment. As a high school student, you must accept responsibility for your education. By accepting more responsibility, you will earn more privileges. No one expects you to be perfect, but you can always be honest. Honesty will earn you trust, respect, and so much more.

Copying and Cheating: Any student who copies another's work or allows his/her work to be copied will receive a zero for that assignment. The same applies to tests and quizzes. Parents may be notified and a referral to the discipline office may be issued.

Office Hours and Extra Help: Office hours are 9:06-9:36 Thursday and Friday. Should you need help, want guidance on studying for a test, or want to ask further questions outside of class or office hours time, Mr. Fitzpatrick is usually at school by 6:50 A.M. You can also ask if there is time after school.

Mindset

It is not about being smart. It is about putting in the effort and learning from your mistakes. An inability to do something is not an indication of your intelligence, but a test of your mindset, and an opportunity to grow and become smarter. Math exercises your brain and makes you smarter.

You are in control of your grade and will get out this class what you put into it. I want to help you as much as possible. Good Luck, do well.

Email etiquette:

Correspondence by email is between student and teacher, not buddy to buddy. It should start with a respectful address and end with your name. Don't make me guess who you are by your email address. You need to include what the email is about in the subject line. Your email may be ignored if you don't follow these guidelines.

email: mfitzpatrick@murrieta.k12.ca.us
Fitz's Fotos: www.fitzsfotos.net

**** COVID-19: Be advised that due to the current health pandemic, several of the instructional materials are subject to change including but not limited to all learning methods proposed by the MVUSD District Office and the Governor's Office. All assignments and practices will be modified as necessary to accommodate these adjustments. It will be up to the student to maintain active engagement regardless of the current learning method. Students should contact the instructor immediately with any questions or concerns regarding distance learning. Mr. Fitzpatrick will reserve the right to adjust/modify the order of instructional elements from the proposed schedule.**