


Welcome to Mr.
Sweeney's AP
Calculus - AB Class!



Mr. Kyle Sweeney

Pronouns: He, Him, His

Bachelors of Science in
Mathematics

Major in Music Education and Jazz
Studies

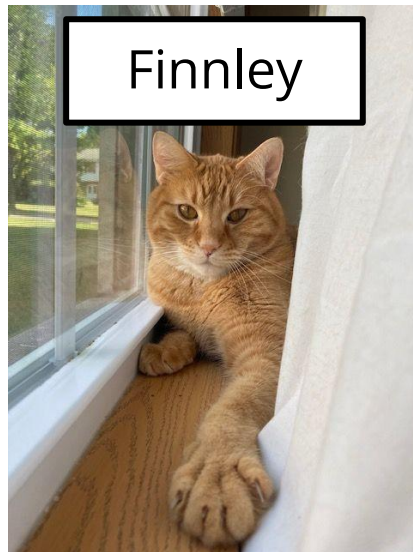
7th year teaching



Currently live in an
apartment in cedarburg

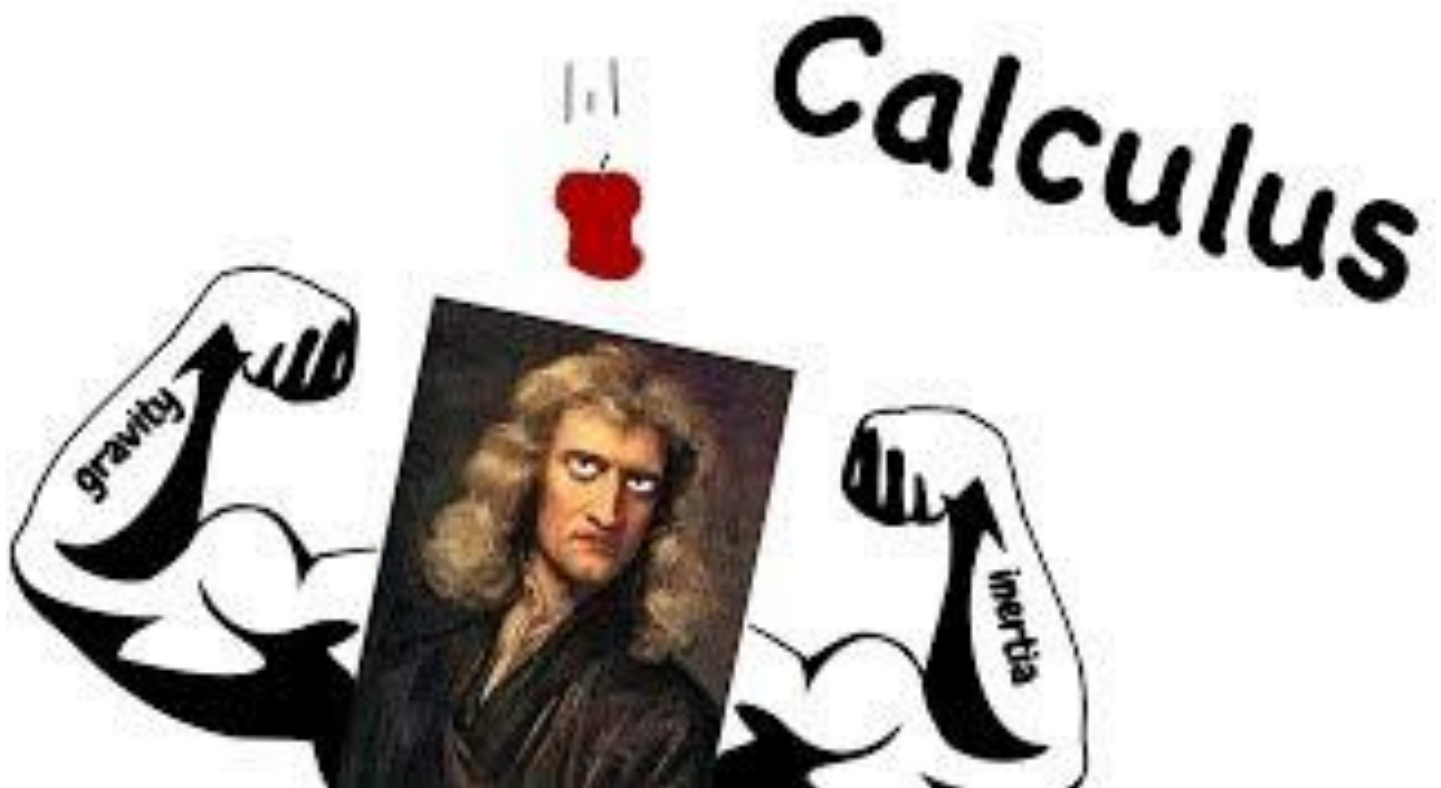


Finnley



I like food, video
games, music,
swimming,
baseball, frisbee
camping, card
and board
games, concerts

The Story of Calculus...



AP Calculus - AB CONCEPTS

Units:

1. Limits and continuity (CLA)
2. Differentiation: definition and fundamental principles (CLA)
3. Differentiation: composite, implicit, and inverse functions (A)
4. Contextual applications of differentiation and rates of change (CL)
5. Analytical applications of differentiation including analysis of functions (A)
6. Integration and accumulation of change (CLA)
7. Differential equations (A)
8. Application of integration

While working through the course we will be utilizing the following Mathematical Practices:

- Implementing mathematical processes
- Connecting representations
- Justification
- Communication and notation.

The course has three main concepts called “big ideas” which are:

Change (C) Limits (L) Analysis of Functions (A)

Units are listed with which of the “big ideas” that they encompass.

Why should we care about Calculus today?

Per. 2 AP Calculus - AB:

Per. 3 AP Calculus - AB:

Per. 5 AP Calculus - AB:

Syllabus

Mr. Sweeney's AP Calculus - AB Syllabus

Class Expectations

- School Policy states that no bathroom passes are to be given in the first 10 minutes of class, or last 10 minutes of class.
- School policy states that students need a pass from their teacher to be in the hallway during class time. If you need to leave the room, please let me know politely. Don't worry, 99.99% of the time I will say yes, but only 1 student will be allowed to leave at a time. While you are gone, your phone must remain in the phone caddy. In an emergency/illness type situation, you can just leave immediately and explain when you return or via email.
- Food is allowed in the classroom. But if it becomes a distraction or a health risk I will ask for it to be put away. If you come in for help during lunch, you are welcome to bring your lunch and eat while we work on math. Many students have various allergies, especially tree nuts, so please do not eat any kind of tree nuts in class at any time.

- Music Devices and other electronic distractions are not allowed in class. Chromebooks should be stored in your backpack unless I specifically ask you to take it out for a class activity.
- Please do not wear headphones or earbuds during class time, even with the music turned off. Having something like that diminishes your capacity to hear and sends the signal that you don't care what is being said.
- Respect all school property, teachers, and peers. Inappropriate behavior of any kind will be dealt with by holding a conference with me, your parents/guardians, and administration.
- Students who are tardy or absent to class, whether they are excused or not, are responsible for independently learning the material that was missed. This can be done by going to Google Classroom and looking at the link for the day that was missed. If your tardiness starts to become regular, I will contact your parent/guardians to schedule a meeting to address the problem.

Assessments: In general, you should be completing all educational activities to prepare for tests so that at the end of a chapter you are prepared to show what you know.

- Things that lead to low test scores:
 - Missing multiple days of math class.
 - Not completing warmup and class notes activities.
 - Not completing homework or copying homework answers.
 - Not preparing for the test by reviewing.
- What you can do to avoid low test scores:
 - Try to be in class every day. Try to avoid scheduling appointments during class if possible.
 - Complete your warm up during the first 5 minutes of class every day.
 - Take notes in class, copy down the class examples that we do together, and try the individual practice problems when I give you time to try examples on your own.
 - Work on your daily work DAILY. Consistent and thoughtful practice is the best kind of practice. You can use the answer key to check your answers, but don't just copy them down and assume that copying the answer will teach you anything.
 - Come in for extra help on a regular basis if you find yourself struggling to complete homework or warmups problems individually. I'm available at lunch every day, after school every day except Wednesday, and typically during 4th and 6th period.

Class Setup

- Sign into your Google Classroom, you should already be invited if not:
 - AP Calculus - AB class code: rgom5os

Google Classroom introduction: <https://youtu.be/cwgxeqG6AoU>

- AP Classroom: myap.collegeboard.org -> Per. 2 - Z3GV9N
Per. 3 - REAVEL
Per. 5 - NQ9LWN
- DeltaMath - Teacher code: 616636 class code: N2T3-MV7F