

AP CALCULUS I SUMMER MATH PACKET INFORMATION

Dear AP Calculus I Student,

The Mathematics Department at Central Catholic High School would like to congratulate you on your placement in AP Calculus I for the fall of 2021.

AP Calculus I is a rigorous and demanding course taught on a college level in preparation for the AP Calculus AB Exam. Students will study the fundamentals of Calculus with an emphasis on real-life application. A Texas instrument graphing calculator (TI-89 or TI-Nspire CAS) is required for this course and should be brought to class each day, starting the first day of school.

In the fall we will use the first few weeks of school to quickly review some Pre-Calculus before moving into Calculus topics. To help you prepare for this material, we have compiled a short list of activities for you to complete using Khan Academy over the summer. Khan Academy is a free resource which provides learners access to practice problems and instructional videos on their website [khanacademy.org](https://www.khanacademy.org).

Please create a Khan Academy account or use your school Google account to log in to the website. Then complete the list of activities on the next page by the first day of school. Completion of these activities will count as the first two assignments in your AP Calculus I class. Students will also have an assessment over the content covered in their summer math activities during the first week of school.

If you have any questions, please contact your AP Calculus I teacher via their school email. We realize this has been an unusual academic year and we want to calm any fears you may have as a student because we know everyone is coming from different backgrounds. Meeting our students where they are academically has never been more important than now. All of our math teachers will work hard to ensure you have a successful next year.

Have a safe and relaxing summer. We look forward to seeing you in the fall.

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CREATING A KHAN ACADEMY ACCOUNT

1. Go to the website [khanacademy.org](https://www.khanacademy.org) and click “Login.”
2. Then you can click “Continue with Google” to link your Khan Academy account to your school Google account. Enter your school email (first.last@cchsrms.com) and password. You will use this method to log in each time you go to the website.

KHAN ACADEMY ACTIVITIES TO COMPLETE OVER THE SUMMER

After logging in to your Khan Academy account, work on completing the following Khan Academy units by clicking on the links below.

<https://www.khanacademy.org/math/get-ready-for-ap-calc/xa350bf684c056c5c:get-ready-for-limits-and-continuity>

<https://www.khanacademy.org/math/get-ready-for-ap-calc/xa350bf684c056c5c:get-ready-for-differentiation-1>

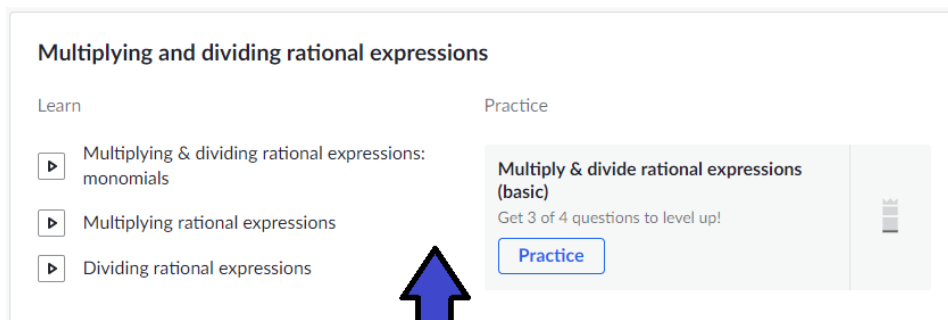
<https://www.khanacademy.org/math/get-ready-for-ap-calc/xa350bf684c056c5c:get-ready-for-differentiation-2>

<https://www.khanacademy.org/math/get-ready-for-ap-calc/xa350bf684c056c5c:get-ready-for-contextual-applications-of-differentiation>

<https://www.khanacademy.org/math/get-ready-for-ap-calc/xa350bf684c056c5c:get-ready-for-applying-derivatives-to-analyze-functions>

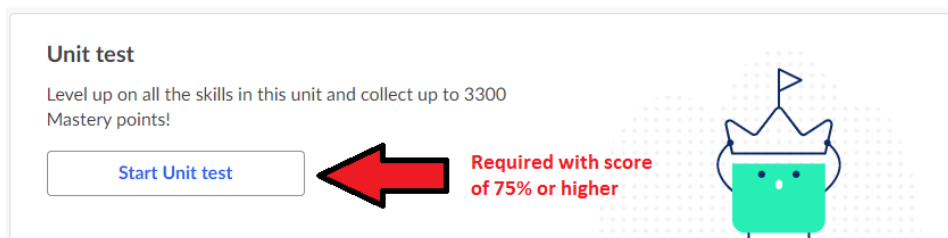
For each unit linked above scroll all the way down and complete the “Unit Test.”

- You must score at least a 75% on each unit test.
- If you score below a 75%, look at the activities listed above the unit test to review the material before trying the unit test again.
- Resources available include both lesson tutorial videos and interactive help articles.



The screenshot shows the Khan Academy interface for the unit "Multiplying and dividing rational expressions". It is divided into "Learn" and "Practice" sections. Under "Learn", there are three video lessons: "Multiplying & dividing rational expressions: monomials", "Multiplying rational expressions", and "Dividing rational expressions". Under "Practice", there is a practice set titled "Multiply & divide rational expressions (basic)" with the instruction "Get 3 of 4 questions to level up!" and a "Practice" button. A blue arrow points from the "Practice" button to the "Unit test" section below.

Example of resources available to help with review



The screenshot shows the "Unit test" section for the unit. It says "Level up on all the skills in this unit and collect up to 3300 Mastery points!". There is a "Start Unit test" button. A red arrow points from the "Start Unit test" button to the text "Required with score of 75% or higher". To the right of the text is a green robot character wearing a crown.