

HONORS PRE-CALCULUS SUMMER MATH PACKET INFORMATION

Dear Honors Pre-Calculus Student,

The Mathematics Department at Central Catholic High School would like to congratulate you on your placement in Honors Pre-Calculus for the fall of 2024.

Honors Pre-Calculus is a rigorous and demanding course. The Honors Pre-Calculus course will quickly review Algebra II topics and then move into Pre-Calculus material. 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 review concepts of Algebra II. To help you prepare for this material, we have compiled a 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 three assignments in your Honors Pre-Calculus class.

If you have any questions, please contact your Honors Pre-Calculus teacher, Mr. Bowman, via their school email at tbowman@centralcatholichigh.org.

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

Sincerely,

Kimberly Zoucha
Math Department Chair

CREATING A KHAN ACADEMY ACCOUNT

1. Go to the website 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@cchsrams.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.

Algebra foundations Algebra 1 Math Khan Academy
Solving equations & inequalities Algebra 1 Math Khan Academy
Linear equations & graphs Algebra 1 Math Khan Academy
Forms of linear equations Algebra 1 Math Khan Academy
Systems of equations Algebra 1 Math Khan Academy
Functions Algebra 1 Math Khan Academy
Sequences Algebra 1 Math Khan Academy
Exponents & radicals Algebra 1 Math Khan Academy
Exponential Growth & Decay Algebra 1 Math Khan Academy
Composite and inverse functions Precalculus Math Khan Academy <ul style="list-style-type: none">● Complete only the first section on “Composing functions” <u>AND</u> Quiz #1

For all of the units above except the last one, complete the Unit Test (see instructions below)

- After clicking on the link, scroll all the way down then click on “Start Unit Test.”
- If you score under 80%, please review the “Recommended lessons” then retake the Unit Test until you score 80% or higher.
- To review the lessons just close the Unit Test, then scroll back up to the recommended lesson.
- Under “Learn” you will find both lesson tutorial videos and interactive help web page articles
- When you’re ready, just scroll back down and click “Take Unit Test Again.”

Leveled up: 4 skills
Leveled down: 2 skills
No change: 0 skills

7/9 correct · 875 energy pts

7/9 correct · 875 energy pts

Scale & reflect absolute value graphs	↑
Evaluate step functions	↓
Graph absolute value functions	↓
Piecewise functions graphs	↑
Shift absolute value graphs	↑
Evaluate piecewise functions	↑

Recommended lessons

We recommend the following lessons based on your test performance:

- [Graphs of absolute value functions](#)
- [Piecewise functions](#)