

### 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 2023.

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](mailto: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](https://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](mailto: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.

<a href="#">Algebra foundations</a>   <a href="#">Algebra 1</a>   <a href="#">Math</a>   <a href="#">Khan Academy</a>
<a href="#">Solving equations &amp; inequalities</a>   <a href="#">Algebra 1</a>   <a href="#">Math</a>   <a href="#">Khan Academy</a>
<a href="#">Linear equations &amp; graphs</a>   <a href="#">Algebra 1</a>   <a href="#">Math</a>   <a href="#">Khan Academy</a>
<a href="#">Forms of linear equations</a>   <a href="#">Algebra 1</a>   <a href="#">Math</a>   <a href="#">Khan Academy</a>
<a href="#">Systems of equations</a>   <a href="#">Algebra 1</a>   <a href="#">Math</a>   <a href="#">Khan Academy</a>
<a href="#">Functions</a>   <a href="#">Algebra 1</a>   <a href="#">Math</a>   <a href="#">Khan Academy</a>
<a href="#">Absolute value &amp; piecewise functions</a>   <a href="#">Algebra 1</a>   <a href="#">Math</a>   <a href="#">Khan Academy</a>
<a href="#">Composite and inverse functions</a>   <a href="#">Precalculus</a>   <a href="#">Math</a>   <a href="#">Khan Academy</a> <ul style="list-style-type: none"><li>● Complete only the first section on “Composing functions” <u>AND</u> Quiz #1</li></ul>

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

The screenshot shows a dark blue background with white text. At the bottom, there is a small illustration of a notepad with a smiley face and a pencil.

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](#)