

**HONORS GEOMETRY/TRIGONOMETRY SUMMER MATH PACKET INFORMATION**

Dear Honors Geo/Trig Student,

The Mathematics Department at Central Catholic High School would like to congratulate you on your placement into Honors Geometry/Trigonometry for the fall of 2023.

Honors Geo/Trig is a rigorous and demanding course. It is the second course in our Honors program following Honors Algebra I/II. In Honor Algebra I/II students review the latter topics of Algebra I followed by the first part of Algebra II. The Honors Geo/Trig course combines the rest of Algebra II with Geometry to prepare students for subsequent classes. 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 couple of weeks of school to review Algebra concepts and to ensure that students are accurately placed. 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 Geo/Trig class.

If you have any questions, please contact your Honors Geo/Trig 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   Algebra 1   Math   Khan Academy</a>
<a href="#">Solving equations &amp; inequalities   Algebra 1   Math   Khan Academy</a>
<a href="#">Linear equations &amp; graphs   Algebra 1   Math   Khan Academy</a>
<a href="#">Forms of linear equations   Algebra 1   Math   Khan Academy</a>
<a href="#">Systems of equations   Algebra 1   Math   Khan Academy</a>
<a href="#">Functions   Algebra 1   Math   Khan Academy</a>
<a href="#">Exponents &amp; radicals   Algebra 1   Math   Khan Academy</a>
<a href="#">Quadratics: Multiplying &amp; factoring   Algebra 1   Math   Khan Academy</a>

For all of the units, please 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](#)