

**ACCELERATED GEOMETRY / ACCELERATED ALGEBRA II SUMMER MATH PACKET INFORMATION**

Dear Accelerated Geometry / Accelerated Algebra II Students,

The Mathematics Department at Central Catholic High School would like to congratulate you on your placement into our accelerated courses for the fall of 2024.

Accelerated Geometry and Accelerated Algebra II are rigorous and demanding courses. Each semester course will cover the same standards and concepts of its corresponding year long course. A Texas Instrument graphing calculator (TI-84 or higher) is required for this course and should be brought to class each day, starting the first day of school.

In the fall Accelerated Geometry course students will apply their algebraic skills in various problem solving situations. To help you review pertinent algebra skills that will be used in Accelerated Geometry, 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 Accelerated Geometry / Accelerated Algebra II.

If you have any questions, please contact your Accelerated Geometry / Accelerated Algebra II teacher via their school email.

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.

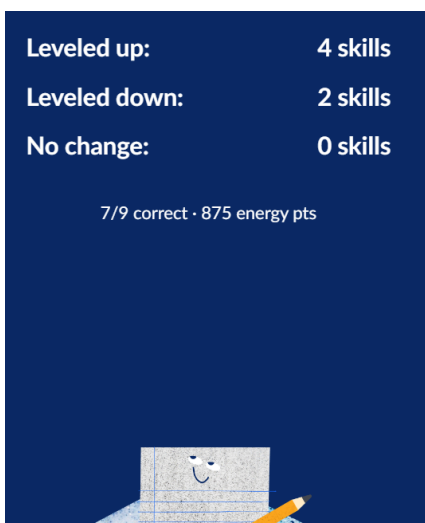
## KHAN ACADEMY ACTIVITIES TO COMPLETE OVER THE SUMMER

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)

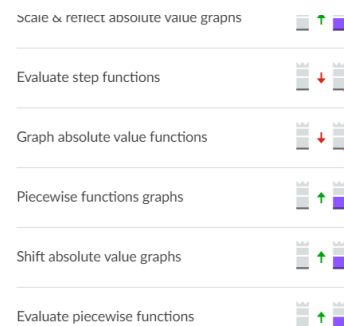
- After clicking on the link, scroll all the way down then click on “Start Unit Test.”
- If you score under 70%, please review the “Recommended lessons” then retake the Unit Test until you score 70% or higher.
- To review the lessons just close the Unit Test, then scroll back up to the recommended lesson.
- 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.”



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

7/9 correct · 875 energy pts

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



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](#)