

9Bridge to Algebra**
Alex Broughton & Tina Kuykendall
broughtona@pvpusd.net kuykendallt@pvpusd.net

Hello and Welcome to Bridge to Algebra 2022! So glad you chose to enroll in the Bridge to Algebra class. Since you have chosen to skip from PVCM 7 to Algebra, by taking this class you are showing that you are ready to take Algebra and are willing to work hard to be successful next year. While this will be a very fast paced class and we will be covering some very challenging material, with hard work you will be successful and as prepared as you can be for skipping a whole year of PVCM 8. This class will be a survey of the most essential topics from PVCM 8 that are expected to be mastered when you walk in the door of your Algebra class next year.

This summer we will be splitting the class into two weeks. Mr. Broughton will be your teacher the first two weeks and then Ms. Kuykendall will take us to the end. The transition will be seamless.

General Information/Getting Started

To get us started, go to Mr. Broughton's Edlio page ([PVHS.PVPUSD.NET](https://pvhspvpusd.net)) Choose BRIDGE TO ALGEBRA on the right side. After we get going, we will primarily use Google Classroom. If you have an issue with printing please contact me and we will get it to you in another format. Students have access to Google Classroom on their student portal portal.pvpusd.net.

Class will be from 8:15 am to 10:15 and 10:30am to 12:30pm Monday thru Friday.

Google Classroom will be used to post and submit homework.

Questions can be addressed via Google Classroom or by email

Announcements will be made in Google Classroom with big font titles

A couple items we need you to be aware of before you arrive the first day of summer school:

1. All students need to bring a device with them to access the online material we will be assigning.
2. We will not have a hardback textbook, however, you will have access to Big Ideas Math during these 4 weeks just as you did during the school year. Many assignments will be on Big Ideas as is the digital version of the textbook.

Required materials

1. GRAPH paper spiral notebook. Please do not get a composition book. The notebook needs to be at least 8.5 x 11 inches in size and preferably spiral bound, not tape bound. Graph paper is ESSENTIAL.
2. Pencil and eraser
3. Straight edge
4. Protractor
5. Colored pencils

We will primarily be covering Chapters 13, 14, and 15.

Syllabus

Week 1 Graphing and Writing Linear Equations

Monday:	Introduction to Summer School. Graphing Linear Equations
Tuesday:	Slope of a Line including parallel and perpendicular lines
Wednesday:	Graphing Proportional Relationships and Graphing Linear Equations in Standard Form
Thursday:	Graphing in Slope-Intercept Form
Friday:	Writing Equations in Point-Slope Form

Week 2 Real Numbers and the Pythagorean Theorem

Monday:	Finding Square Roots
Tuesday:	Finding Cube Roots
Wednesday:	The Pythagorean Theorem
Thursday:	Approximating Square Roots
Friday:	Using the Pythagorean Theorem

Week 3 Exponents

Monday:	Exponents
Tuesday:	Product of Powers Property
Wednesday:	Quotient of Powers Property

Thursday:	Zero and Negative Exponents
Friday:	Introduction to Parallel Lines and Transversals

Week 4 Angles and Triangles

Monday:	Angles of Triangles
Tuesday:	Translations and Reflections
Wednesday:	Similar Figures
Thursday:	Multiplying Binomials (FOIL)
Friday:	Factoring