

Summer Math HW options for Amigos Upper School Students:

The goal of summer math homework is to keep your brain active so that you're ready to jump right in when you return in September. Please choose an option below that works for you and your family.

1. With support from your parents, enroll in and complete Jo Boaler's course "How to Learn Math: For Students" at Stanford University. The course addresses issues such as growth mindset in relation to math, and problem solving techniques for tackling difficult problems.
 - a. <https://lagunita.stanford.edu/courses/Education/EDUC115-S/Spring2014/about>
2. Participate in a District Math Course or Breakthrough or another math program.
3. Sign up for an account on Art of Problem Solving's online tool called Alcumus.
 - a. <https://artofproblemsolving.com/alcumus>
 - i. Click on Login/Register
 - ii. Create a new account
 - iii. Get your parents' permission to sign up for an account – fill in info and then get to work :)
 - iv. You should make sure that you are using the "Pre-Algebra" course.
 - v. Enjoy answering challenging math questions!
 - vi. When you are done, click on "logout" which appears when you hover your mouse over your username.
 - b. **Remember: Art of Problems Solving problems are not about brute computation. If you find that you are doing complicated computation, think about how you can approach the problem in order to solve it in a more simple, elegant, and efficient manner!**
 - c. The default setting is for the Arithmetic - Addition section from the Prealgebra text. The program is supposed to learn from your answers and adjust the level to meet your needs. You can change the focus to any specific topic within the Prealgebra text that you would like to work on. If you want to do this, click on "change focus" toward the top of the screen on the right hand side. Please stay within the "prealgebra" menu, but you can choose any topic within that menu. Note: there will be some areas that we have not yet covered in class. Feel free to skip them or try puzzling them out on your own :)
4. Complete a Summer Math Calendar for the grade that you are entering:
 - a. http://www.cpsd.us/departments/math/district_information/summer_math_work
5. Find another cool thing to do that engages your math brain. Read Number Devil or play euclidthegame.org... Find something else that excites you and keep your brain active!

We are looking forward to hearing about your math summer work in September!