



Geometry Summer Work

1. College Prep - Complete 3 of the assignments below. Honors - Complete 4 of the assignments below.
2. During the first week of school, you will be responsible for presenting your work on the summer activities you completed. Your teacher will select 2 of your activities to be graded. You will be graded using this [rubric](#).
3. You may be as creative as you like within the guidelines listed below.
4. Ask your family members to help you gather items or find resources for the activities that you chose.

Activities to Complete:
Write a poem about an algebra concept (slope, area, generic rectangles, linear equations, quadratic equations, parabolas, polynomials, etc.). Use a consistent rhythm and rhyme scheme. Your poem must be at least 12 lines long.
Write a song that explains an algebra or basic geometry concept. Make a recording of the song using GarageBand or some other software. **BONUS** If you create a matching music video for your song, count this as <u>two</u> assignments.
Write a skit in which the characters make a mathematical discovery. For instance, your skit could be about two people realizing the correspondence between the slope of a line in the equation and on the graph. You will perform your skit during one of our first days back to school.
You have been designated as the ruler of all things math, and it is now up to you to decide what students should learn in math classes. Create an argument for one topic you have learned so far in math and discuss why it should be included in the curriculum. In addition, make an argument for one topic that you think should be excluded from the curriculum. You can write, speak, or perform this argument live, but each one should be the equivalent of at least 1 written, double-spaced page.
Find a pair of 8 different objects around your house (ex: 2 bottle caps, 2 cardboard tubes, etc.). Create a 2D art project on a piece of paper using one of each of the objects. Find the



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perimeter of your work of art. Then, create another 2D project using the leftover objects. Find the perimeter of that piece of art. Discuss (written or orally) why the perimeters of the two objects are different.

Research four geometric monuments or buildings from around the world. Create an infographic or similar piece that gives students an idea of their relative sizes by explaining how much paint it would take to cover each monument and how many of a common object would fit inside.

Make a video tutorial in which you teach someone how to master a concept from Math 6 or Pre-Algebra. Your video should be at least 5 minutes long. It might be used by some of our teachers, so make sure it's good! You may email your teachers to make sure that the concept is appropriate.

Research a famous mathematician. Then, create the trailer for a movie about her / his life, being sure to include some of his / her accomplishments.

Pick a basic elementary math concept (like addition, subtraction, place value, etc.). Create a visual explanation of that concept in another language. You will write out a few examples of these types of problems, then write explanations of what you are doing nearby. It should be visually appealing - something that could be a poster in an elementary classroom!

Wild card! If you have another idea for a math assignment that you could complete, email it to Mr. White for approval.



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I, _____ have completed my assignments to the best of my ability.

Student Signature

Date

Parent Signature

Date