



## H Algebra II Summer Work

During Algebra II, we will be completing many projects that bring the concepts we discuss in class to the real world. Our first project involves analyzing data and finding functions that will model the data. To prepare for this project, you will need to collect some data over the summer so that we can jump right into evaluation at the beginning of the year.

The data that we will be analyzing will center around your performance on a task. So before we begin, you'll need to select a task! This task should be something for which you can measure the time it takes to complete or the accuracy with which it is completed. Please choose from the following options:

- Time to run a set distance
- Distance an object is thrown
- Free throws completed (or a similar, repeatable athletic activity)
- Identifying the countries of the world / a continent in a set amount of time
- Time completing a Sudoku puzzle
- Amount of time needed to read a certain number of pages in a book
- Situps in two minutes (or a similar exercise)
- Completing a set of math problems in a set amount of time

If you would like to complete a different task, you may do so with Mr. White's approval. In addition to a task, you must also identify at least 2 variables that you can track in addition to how many times you have completed the task. These might include:

- The time of day when the activity is completed
- How long it has been since you ate before you complete the task
- How much sleep you got the night before completing the task
- How many steps you took during the day when you complete the task
- The temperature outside when you completed the task

There are endless possibilities for the variables you can consider, and they do not have to be related to the task in any way. However, there must be some variation in these as you complete the activities. For example, if you decide to track the time of day in which you complete the activity, you cannot simply complete the activity every day at 6 PM, as this would render the



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variable useless. Your variables should be presented along with your task, and they must also be approved by Mr. White.

You will then complete the task at least 14 times during the first few weeks of our unit. You will use [a chart on Google Sheets](#) to keep track of your data. You may modify the chart as you need, but you are responsible for having the right data. If you have any issues, you need to let Mr. White know during the data collection time period and not at the end.

Please let Mr. White know if you have any questions. He will be available via email for most of the summer. Thanks!