



George Washington Carver  
Engineering and Science High School  
2019 Summer Enrichment

**AP PHYSICS 1**

**Due Friday, September 6th**

**Project Value:** One (1) Homework grade (20 points total)

Analyzing data is an important component of Advanced Placement Physics. For your summer project you will create a conduct an experiment of an object falling to the Earth. The object you select is up to you. You will be expected to create a data table of the distance travel (8-10 different distances) and the time it takes to travel this distance. You will also be expected to make a graph based on your results. Your graph will be submitted as your first assignment of the class on google classroom. Your graph will be a distance v. time graph. With distance traveled in the y-axis and time in the x-axis. Along with the graph you will be expected to answer the following questions about your experiment.

1. Describe the shape of your graph.
2. What is the reason why the graph shape?
3. What does the line of the graph represent?
4. Can you predict the velocity of the the ball after 2 seconds?
5. Provide an alternative method to obtain better results. Explain it clearly.

**It is expected that you will enter school on the first day having already read the first two chapters of our text, as we will begin instruction almost immediately. Any questions about this assignment or class, and to request a digital copy of the text, can be directed to your teacher (pheagy@philasd.org). The Google Classroom code is: oyyfqn**