



George Washington Carver  
High School of Engineering and Science  
2019 Summer Enrichment

AP Statistics Summer Project

Summer 2019

## I. College Board Account

You need to be able to access your College Board account. If you have multiple accounts, you need to combine them into one. This needs to be done because:

- Your AP tests will be ordered through your College Board account.
- College Board is releasing materials needed for class and this material will be accessed through your College Board account.
- You receive your scores through this account.

Due to privacy issues, E&S cannot help you with this process. You must call the College Board to fix any issues. You need to do this well before the first day of school. If you can't remember the email you used when you created your account or are still having trouble accessing your account, call College Board Customer Service at 866-315-6068. If the number changes over the summer, remember there is always Google.

**Due: Tuesday, September 3 @ the Beginning of Class**

**Grade: Homework Assignment. If not completed by the beginning of class on September 3, 10 points will be deducted. Another 10 points will be deducted at the beginning of class each day thereafter that the assignment is not complete.**

## II. Class Materials

We will start working on day 1. You will need the following.

1. Writing utensils -- preferably pencils
2. A place to take notes and store handouts

It is strongly suggested that you get a large two-inch binder and loose-leaf paper for notes and handouts. Each lesson will start with at least one handout. There will also be data gathering which will also require more paper. If your stuff is spread out between a notebook and folder, not only will you be constantly going back-and-forth but you will probably lose stuff or at the very least, not be able to find it when you need it. However, the choice is yours.

**Due: Tuesday, September 3 @ the Beginning of Class**

**Grade: Not graded**

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### III. Project

You will conduct a statistical study. Here are the steps you need to follow:

1. Make a hypothesis about two populations that you think are different in some respect. (Populations can differ on race, gender, age, location of residence, school, grade in school, zip code, etc.)
2. Collect data from each of the two populations.
3. Examine the sample data and evaluate your hypothesis.
4. Create a presentation (using Powerpoint, Keynote, or some other presentation software) of your results.

You will be presenting this to the class for a separate grade. The presentation must include:

1. Statement of Hypothesis: Explain why you chose your hypothesis. That is, explain why you thought it was true before you collected data on it. **The hypothesis must be school appropriate.**
2. Collection of Data: Describe how you went about collecting data. If your method of collecting data involves a questionnaire, you should include a copy. **The collection of data must be school appropriate.**
3. Present the data in an easily understandable form (graph, chart, etc.) **The presentation of data must be school appropriate.**
4. Analysis: On the basis of your sample data, do you think your hypothesis is true, false, or still not proven? Explain your reasoning.

You will be going back to this project throughout the year to refine it. Remember, you have not taken the class yet. The items above will be covered in class throughout the year. As such, do not strive for perfection. Just be sure to follow the directions and you will receive a good grade on the assignment.

Example project:

1. Statement of hypothesis: Females do more \_\_\_\_\_ in a week than males.
2. Collection of data: I asked the students in my homeroom "how many hours a week do you \_\_\_\_\_".
3. Data presented as a pie chart.
4. Based on my data, I believe females (do/do not) spend more time doing \_\_\_\_\_ in any given week because my data showed \_\_\_\_\_.

**Due: Submit the presentation to Google Classroom by Sunday, September 15 @ 11:59 PM**  
**Grade: Two Test Grades. If the project is not submitted by the due date and time, 10 points will be deducted. Another 10 points will be deducted at 11:59 PM each day thereafter that the assignment is not submitted.**

Any problems, email Mr. Kalicki at [jkalicki@philasd.org](mailto:jkalicki@philasd.org) **well before the deadline.**