AP Statistics

End-of-Course Project

This project is an opportunity to demonstrate what you have learned in AP Statistics this year. I would like you to have a polished piece of work that shows that you can apply what you have learned to a real-world situation. Some key elements are...

- You will find that I will am fairly vague and will be reluctant to give ideas for your project - this is because I want you to be able to choose something of interest to you. However, I will guide you and help you to do a good job as long as you work far enough in advance.
- The outcome from this project should be a professional example of work in statistics that you would comfortable showing anyone (including a college statistics professor next year).
- The project must be readable and interesting to someone who *does not* have a basic understanding of statistics.
- The project must be defensible and interesting to someone who *does* have a mastery of the material of a first course in statistics.
- The project must be typed, including data tables and graphs.

For the 2019 / 2020 school year...

- For this year, we'll narrow the focus and I'm going to ask that everyone does a project that requires inference (this is easier). Just make sure that your project is about something that requires inference (you want to draw a conclusion from sample data, you don't have all the population data, etc.)
- It is absolutely ok to make up the context and data – you can do excellent statistics with silly stuff (it's ok and even encouraged to have fun)
- Submit through our Google Classroom (it will go through some sort of originality scans, automatically I think)
- I'll grade it using each of the following as one-tenth of the project:
    - Introduction (why you chose to study this topic, etc.)
    - Inference Toolbox section I, II, III, and IV (completely cover these, but don't label with Roman Numerals – it should read more like an article for a professional journal than an answer on an AP Statistics test).
    - Data (include your data, even if you made it up) and sampling method
    - Appropriate graphs (display of data, distribution w/shading, etc.)
    - Conclusion (how it went, what you learned, what you would do different next time, etc.)
    - Readable (For example, it makes sense even if you don't know what a p-value is).
    - Professional (formatting, language, level of writing, etc. make it look like you know what you are doing)
- One way to think about the project that might help is to envision a complete inference toolbox write-up as an early draft, and then revise it as if for an English or History class.
- As long as you work enough in advance, you are welcome to submit your work to me for feedback and I'll guide you with revision until you have your project at the level you want.