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IB Biology I Summer Assignment

Hello Future IB Biology Class,

We will begin the year designing labs and analyzing data. This course is rigorous, interesting, and full of scientific inquiry. Your success in HL Biology is dependent upon your study habits. The most successful students are proactive independent learners. Please expect to have 1- 3 hours of work outside of class per week.

For this summer expect to spend 1-3 hours to complete the following tasks below:

- **Fun Data Exploration & Analysis   / 15 pts)**
    a. Task #1: Go to https://ourworldindata.org/
    b. Task # 2: Explore the website for 5 minutes
    c. Task # 3: Watch this video: https://www.youtube.com/watch?v=3cqpeYOujgU
    d. Task # 4: Make a google slides presentation to present in small groups on the first day of school. Choose only one option below.
       (click here to see video of me explaining assignment)

Choice #1:	Choice #2:
Compare the relationship of two different graphs	**Open investigation**
Explanation: Students will explore two topics of their choice and choose two graphs that are from separate topics.	Explanation: Students will choose an idea to present of their choice. It must match in both rigor and scope as choice # 1.
☐ Slide 1 = Question	Example: Manipulate one graph or more from different controversial perspectives. For instance, an illustration of a Covid19 vaccinations graph might support whether both vaccinations are healthy or not depending on the part of the graph emphasized. .
☐ Slide 2 = Graph # 1 • Information about dataset • Analysis of graph using i2 method	Goal of example: to illuminate how data can be presented towards bias in either direction.
☐ Slide 3 = Graph # 2 • Information about dataset • Analysis of graph using i2 method	
☐ Slide 4= Make an inference to explain the relationship between both graphs • Provide in-text citation apa format to support your inference.	
MODEL WORK BY KREBS	

- **Optional_Study Terms below for First Day Pre Assessment Quiz (15 pts)**

    a. Look over lab design terms (below) and how to design an experiment.

        i. [Components of lab design (terms and definitions)](#)
        ii. And know the difference between:
            [descriptive statistics](#)
            [Inferential statistics](#)

    b. Notes: If you feel familiar with these terms you will ace the first day quiz. If you do not, review and study the links below. You might have to spend one hour on this.
    You will have a quiz on this when you arrive.

Due date: First Day of School!
Assignment should be completed in your notebook. NO LATE ASSIGNMENTS WILL BE ACCEPTED
Grading Rubric

Category	Strong 15 -11	Medium 10-6	Low 5-1
Google slides	Thoroughly complete	Complete- lacks detail	Missing 2 + items
Total points			**15 potential points**