AP Biology

Welcome to AP Biology 2023-2024!!

Please join the Google Classroom for next year at fctmdrk

The textbook for the class will be Campbell Biology, 11th AP Edition or 12th AP Edition. Must have a physical copy of the textbook to bring to class. Some students purchase 2 so that one can stay in the classroom (lighter backpack)

Summer Work:

Part I: Due: July 21, 2023 Submitted electronically on GC

Read text, Chapters 1-5 and complete the reading guides. Expect an exam on this material during the first few days of school

Part II: Due: August 16, 2023 Submitted electronically on GC

Read Haldane’s essay
https://drive.google.com/file/d/13PICZGQ_FR5JTh7Tjqqsk-ha32Ssxew/view?usp=sharing and answer the following questions. Note that Haldane was famous in his day for being a rascal and having radical political views, but he did much to popularize scientific concepts and bring them to the public forefront. As with all formal writing, your submissions should be typed and professionally formatted. See the student handbook for guidelines.

1. What is the problem with some of the fairy tale monsters?

2. How does gravity affect animals of varying sizes?

3. Why do animals become more complicated?

4. In humans the gut is complicated to increase _________

5. What restricts the thickness of insects?

6. How is size an advantage in terms of food and temperature regulation?

7. Why don’t whales have eyes much larger than ours?
Part III: Due August 16, 2023, submit link on GC

AP BIOLOGY SCAVENGER HUNT

For this assignment, you will be familiarizing yourself with science terms that we will be using at different points throughout the year. Below find the list of terms.

1. Select 50 terms and choose your unique item (see 4)

2. “Collect” 50 items from this list of terms. When I say “collect”, I mean you should collect that item by finding it and taking a unique digital photograph of that item. You will post your photographs with corresponding explanations blog-style in a Google Doc or link to a Google Site you create. You do not need to find the exact item on the list, say for example, it is an internal part to an organism, but you must apply the term to the specimen you find and explain on the blog how this specimen represents the term.

Example: If you choose the term “phloem”, you could submit a photograph you have take of a plant leaf or a plant stem and then explain on the blog what phloem is and specifically where phloem is in your specimen

3. NO organisms should be harmed in the process of taking your photographs!

4. Original Photos ONLY and no repeats: You may not use an image from any publication or the Web. You must have taken the photograph yourself (or be present when it is taken). Place a unique item in all of your photographs that only you could have added each time. Use something that you might usually have on you like a pen or a coin or a key, etc. Be creative! However, please do not use yourself…. All 50 photos must be unique and different (no using the same photo for multiple terms)

5. Natural Items ONLY: Some specimens may be used for more than one item (though must have different photos), but all must be from something that you have found in nature. Take a walk around your yard, neighborhood, and the city. Do NOT spend any money! Research what the term means and in what organisms it can be found … and then go out and find one.

6. Team Work: You may work with other students in the class to complete this project, but each student must turn in his or her own project with a unique set of terms chosen and unique photographs. There are over 100 choices … probability says there is a very small chance that any two students will have most of the same 50 terms chosen. Of course a few terms may overlap, but the large majority must be unique. All photos must be unique and include your special item.