Biology Honors Summer Homework

Biology builds on the science classes that you have taken throughout your middle school career. It is important that you stay familiar with the concepts and vocabulary that you have learned in science thus far. I have created three review modules for you to complete prior to school starting focusing on the standards that you completed in your 7th grade life science class. Here is what you need to do to access the modules:

1. Go to [www.edmodo.com](http://www.edmodo.com) and create a student account with your PPCA e-mail address.

Your Biology class access code is atemxc or you can use this web address. https://new.edmodo.com/joincg/atemxc Please allow me a day or two to approve your access.

2. Once you have joined the 2021-2022 Biology 1 Honors class on Edmodo, you will be able to access the three review modules. These review modules cover many standards from your 7th grade life science curriculum. The codes at the beginning of the question refer to the specific standards. You can plug in these codes in your search engine to find additional information.

3. When you go to open the assignment, please click on the “google forms” icon, not “open assignment”.

4. The module on the nature of science and experimentation includes a section for you to begin brainstorming your ecybermission science project. Please read below for help with this question.

You can complete the modules as many times as you want to help you practice with these standards. **You will have a quiz during the first week of school on these concepts. (S**pecial note: The questions on the summer homework quiz will not be identical to the practice, but will cover the content revealed in the practice modules.) Please do not use the study strategy of memorizing the questions and answers – you will not be pleased with the result of your efforts on the quiz. Rather, pay attention to the information covered in the questions and revealed in the comments sections. Make sure that you understand the concepts. If you need to do more research on the topic, use the code for the standard in your search engine or on www.cpalms.com

Ecybermission Project idea (science fair project) – **Do NOT copy an experiment from a science fair project website!**

We will be competing in the Ecybermission virtual science competition this year. You will be competing with students from around the U.S.A. with your innovative ideas and mastery of the scientific method.

Project ideas must work towards solving a problem in the community.

A good story is needed to make a science project go from ok to GREAT! It does not need to be elaborate, just executed well, and is something or knowledge needed by someone (this is where your personal story fits in).

Everyone has already seen and knows what will cool a can of soda the fastest, if a ball will travel farther with more or less air in it, and whether or not aspirin will affect plant growth, etc. These projects are too simple and not advanced enough to be considered for a 9th grade applied discovery project.

Get REAL. Find something related to you. Information that **you** can use in REAL life. You can learn more about this project at www.ecybermission.com

Examples of successful ideas from previous years included:

Project PING: A pathway to treatment for idiopathic scoliosis – student had a personal story with scoliosis and was passionate about curing difficult cases.

Cooling efficiency of horse saddle pads – student trains horses daily, and horses get overheated quickly with saddles on.

Effectiveness of various masks on retention of respiratory droplets to prevent disease transmission – Covid-19 related research

Electromagnetic wall climbing robot for inspection of buildings where people cannot easily access. – Student loved engineering vehicles and had access to build resources and a 3D printer for needed components.

And many more!!!!

**\*Remember that your idea must be approved by me before you can begin any experiments. You will also need to wait to form your team. Do not conduct any experimental research without my approval. You can certainly conduct informative research (learn as much as you can from reliable sources) on your topic of interest.** **Michelle.thompson@ppcacademy.net****.**

I look forward to being your science teacher this year!!! Mrs. Thompson