

6/9/20

AP Biology Students,

Welcome to Advanced Placement Biology! This course is designed to meet the requirements of a first-year college Biology Course. As such, AP Biology will test all of your mental faculties. In order to be successful at this level, a complete commitment to this subject is an absolute must! We will talk more about this commitment level and the study habits/skills necessary to meet proficiency requirements when I see you in August (fingers-crossed).

In the meantime, I have listed below, what is **“strongly recommended”** you review as you prepare for this course over the summer. These “tasks” are designed to give you a “head-start” on AP Biology and give us a “jump-start” on Unit One of our course. Over the summer, if you have any comments, questions, or concerns regarding these “tasks”, I can be reached at [wymanaw@pwcs.edu](mailto:wymanaw@pwcs.edu).

In addition, **the following “tasks” should be completed by Wednesday September 2, 2020.** So, in essence, this could literally be a first week assignment. Do yourself a favor, prove to me that you are committed to this course and do not wait until the last minute to prepare. You need to adopt positive study skills now.

I want you to be aware that this course is challenging, but you represent the very best Hylton High School has to offer. I have every confidence you will meet this challenge headlong and excel to your maximum potential. Best wishes and see you soon!

### **Summer Assignment**

**Note:** Textbooks are not required for these “tasks”. You will receive both a textbook and AP Classroom Account information, when school begins.

- **In addition:** As per PWCS Regulation 663-2, students will receive an additional 2 percentage points for the first nine-week grading period upon the completion of this summer assignment.

### **TO DO:**

1. Look over your old Chemistry Notes (provided you still have them 😊). If unavailable, skip to #2.

Focus your review on the following Chemistry Concepts:

- a. Matter: Identification/review of proton/neutron/electron #
- b. Ions vs. Isotopes

c. Bonding

- Hydrogen
- Ionic
- Covalent
  - Polar
  - Non-Polar

--Definition of each and how valence electrons play a role?

d. Molecular vs. Structural Formula of Molecules

e. Chemical reactions (ID of products and reactants)

f. Water Chemistry and pH

- Specific heat
- Heat of vaporization
- Distinguish between solvent, solution, suspension, solute
- Acid/base/pH scale facts
- Role of buffers

2. Go to my AP Biology Google Classroom for this year (Join Code: 4oviu53), locate "AP Bio Power Points" and download:

- Ch 2: The Chemical Context of Life
- Ch 3: Water and the Fitness of the Environment
- Ch 4: Carbon and Molecular Diversity of Life
- Ch 5: The Structure and Function of Large Biological Macromolecules

Look over these in preparation for unit #1 and have a familiarity of the concepts listed under "To Do" #1, above.

Note: If my Google Classroom is deactivated over the summer, email me: [wymanaw@pwcs.edu](mailto:wymanaw@pwcs.edu) and I will send the power points to you.

3. Watch Khan Academy videos ([www.khanacademy.org](http://www.khanacademy.org)) of any of these concepts you feel you need additional help or wish to have supplementary review.

An introductory background of Chemistry is a must! If you have any comments or questions of any kind, please do not hesitate in making me aware. I am looking forward to meeting you in some form, next year and wish you all the best as you begin your odyssey of AP Biology.

Mr. Wyman