

## AP Biology Summer Assignment



### Welcome to AP Biology!

The two main goals of AP Biology are to help you develop a conceptual framework for modern biology and to gain a deeper appreciation of science as a process (as opposed to an accumulation of facts). Because of the rapid pace of discovery in the life sciences our primary emphasis is on developing an understanding of unifying concepts that connect the major topics of biology. The AP Biology Curriculum centers around the four Big Ideas and you will need to not only know these but also understand how they all relate:

1. **Big Idea 1:** The process of evolution drives the diversity and unity of life.
2. **Big Idea 2:** Biological systems utilize free energy and molecular building blocks to grow, to reproduce and to maintain dynamic homeostasis.
3. **Big Idea 3:** Living systems store, retrieve, transmit and respond to information essential to life processes.
4. **Big Idea 4:** Biological systems interact, and these systems and their interactions possess complex properties.

### **BE AWARE:**

The class is highly intensive, with a lot of material that needs to be covered. Please be aware that part of taking this class is commitment to being on time, on task, and hard working. Please be serious about taking this class.

### **→Mandatory Assignment 1: Introduction Email**

You will send Miss McKay an email answering the questions below. She will reply so you have electronic record that your assignment was received. Please email Miss McKay at [lmckay@timothychristian.org](mailto:lmckay@timothychristian.org) by the end of this summer:

**Subject Line:** AP Biology 2021-2022 and your name

1. What other science classes have you taken?
2. What are your personal strengths when it comes to learning new material?
3. What causes you to struggle in a course?
4. What is the most effective way for you to prepare for a test?
5. How many AP classes have you taken so far? How many have you passed with a 3 or higher?
6. How many AP classes are you taking this year (please list)?
7. Was there anything that you liked or disliked about your earlier biology class?
8. What are you looking forward to the most in AP Biology?
9. What are you most anxious about in AP Biology?
10. Why are you taking AP Biology? What do you hope to accomplish/gain?

### **→Mandatory Assignment#2: Complete packet**

Print and complete the packet attached consisting of reading selections and questions. Answers should be typed and numbered appropriately. This is due on the first day of class.