

AP Biology Summer assignment

Welcome to AP Biology! Over the course of the next school year, you will learn a massive amount of biology. Success in this class will take work, but I will provide you with all of the tools necessary for you to be successful.

In order to meet the demands of the curriculum, it is necessary for you to complete some work before you come back next year. The summer assignment is based on evolution, which is the main concept of this subject.

You will be provided with the [textbook](#) pages and a [list of videos](#) made by the AP biology examiners to help you prepare this unit.

It is very important to note here, that the AP Biology Exam is NOT based on memorizing the facts, so don't spend time memorizing key terms or processes. The exam questions are meant to test your conceptual understanding of the topics.

Most questions provide an example, such as an experiment, asking you to apply both your knowledge of essential biology concepts and your understanding of science practices. Here is an example of a multiple-choice question taken from the AP exam:

A biologist spent many years researching the rate of evolutionary change in the finch populations of a group of islands. It was determined that the average beak size (both length and mass) of finches in a certain population increased dramatically during an intense drought between 1981 and 1987. During the drought, there was a reduction in the number of plants producing thin-walled seeds.

7. Which of the following procedures was most likely followed to determine the change in beak size?
- (A) A few finches were trapped in 1981 and again in 1987, and their beak sizes were compared.
 - (B) The beak size in fifteen finches was measured in 1987, and the beak size in the original finches was determined by estimation.
 - (C) The beak size in a large number of finches was measured every year from 1981 to 1987.
 - (D) Finches were captured and bred in 1981, and the beak size of the offspring was measured.

We will review the materials once we return from the summer break and then you'll have a test based on the work you have done over the summer.

Please feel free to contact me anytime over the summer if you are facing problems

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