

Evolution Assignment 2024

Evolution is an important topic in AP Biology. While it will not be “taught” in class, it is mentioned frequently and is the basis for many topics we cover. If you do this assignment carefully and with thought, and then review it in May, you should have no problems with the concepts needed for the exam.

1. **Background.** Carefully read the information in the first 3 sections found at this site:

http://evolution.berkeley.edu/evolibrary/article/evo_01 (No written assignment to be handed in for this section)

As you read the section: An introduction to evolution, The History of Life, and Mechanisms, take notes and learn the vocabulary, especially these concepts:

Natural Selection

Types of selection

Sources of variation

Genetic Drift-bottleneck effect, founder’s effect

Gene flow

Reproductive and geographic isolation

Divergent and convergent evolution

Adaptive radiation, coevolution

Evidence from anatomy – homologous, analogous and vestigial structures

Gradualism and punctuated equilibrium

The following are 2 of the many Paul Anderson videos for AP. Biology. If you have time this summer, watch them to help you understand the basic principles of Evolution.

<http://www.bozemanscience.com/solving-hardy-weinberg-problems>

<http://www.bozemanscience.com/001-natural-selection>

2. Making of the Fittest. This is a movie about Natural Selection.

<https://www.youtube.com/watch/sjeSEngKGrg>

Worksheet for #2

It must be completed and handed in by September 16, 2024