

Senior AP Biology 2020-2021 Summer Work

Greetings! Congratulations on your decision to take on the challenge of AP Biology. I am so looking forward to having you in class again!!! AP Biology is a college level course, with college level expectation for participation and effort. It is a course that unites what you know about biology, chemistry, physics, psychology and math (including statistics J), to come to an understanding of the natural world. Throughout the course, you will become familiar with major recurring ideas that persist throughout all topics and material.

The 4 Big Ideas of AP Biology

Big Idea 1: The process of evolution drives the diversity and unity of life.

Big Idea 2: Biological systems utilize free energy and molecular building blocks to grow, to reproduce and to maintain dynamic homeostasis.

Big Idea 3: Living systems store, retrieve, transmit and respond to information essential to life processes.

Big Idea 4: Biological systems interact, and these systems and their interactions possess complex properties.

TO DO BEFORE YOU LEAVE FOR SUMMER BREAK:

- Stop by room 206 to pick up a textbook. The book will serve as a reference for you throughout the course. (You do NOT need to purchase this book)
 - Campbell Biology: Concepts & Connections (8th Edition)
[Reece, Jane B.](#); [Taylor, Martha R.](#); [Simon, Eric J.](#); [Dickey, Jean L.](#); [Hogan, Kelly A.](#)

Assignment:

Please use the link below to access the summer assignment worksheets. The folder contains 5 worksheets that will strengthen your data analysis and Claim Evidence Reasoning skills.

https://drive.google.com/drive/folders/17_gt488YDqi6aUhv7OSnCEZd6LCc3odr?usp=sharing

Each worksheet contains a link to a background information sheet. Use the information provided to complete each question.

Here are the due dates for each worksheet.

Week 1 Due 7/3 - HHMI Data Points Finch Beaks

Week 2 Due 7/10 - HHMI Data Points Fish

Week 3 - Due 7/17 - Beta Amyloid Data Point

Week 4 Due 7/ 24 - Student Chronic Myeloid Leukemia

Week 5 - Due 7/31 Atmospheric Carbon Dioxide Data Point

These worksheets are graded for accuracy and completion. The due dates are intentionally staggered so that I can provide you with feedback. I recommend doing a worksheet per week. This way you can strengthen your skills as we progress through the summer. But, you can hand them in early if that works best for you.

I will be available throughout the summer via zoom (just email me to set up a time) to answer any questions.

As always you can reach out with any questions or concerns.

Peace, Love and AP Biology,

Mrs. Soley

psoley@msjacad.org