

WW-P HSN AP Biology Summer Enrichment Assignment 2022

Google Classroom Code: **237oxuc**

We are glad you have enrolled in AP Biology! In order to “fit it all in” you’ll complete a summer enrichment. Your time spent learning before the start of class will allow us to have more time for the “fun” of biology, and ensure that you’ll be well prepared for the AP exam in May.

This summer enrichment has been designed for four purposes:

- To get you to think during those summer months to keep your mind sharp, because we will expect a lot out of it come September!
- To introduce you to major concepts from AP Biology through non-classroom methods of learning.
- To learn a majority of the Ecology Unit.
- To experience Biology!



Enrichment Activities: Please note the due dates for each assignment. Assignments should be handed in the day they are due IN CLASS. If there is a range for the due date, your assignment will be due the first day in the range that you have class. Your teacher will create a Google Classroom for your class that you will join on the first day of school.

Task 1: Science Skills **due on first day of class**

Find Science Skills Review (Purple Section) in the Appendix. Review pages F1 – F3 carefully. Each chapter has a science skills exercise. Complete Science Skills exercises on pages 838, 849, 871, 898. Be sure to use graph paper when appropriate. Please make sure each science skill is labeled appropriately so when we collect them, we know which is which and who they belong to (Ex. Name, Science Skill 849). These will be collected on the first day of class (can either be handwritten or typed but must be printed and physically submitted)

Task 2: Current Event Google Slide **due second day of class**

Find a current event article (within the past 12 months) that addresses one of the following topics:

Invasive Species

Keystone Species

Ecological Niche

Primary Succession

Secondary Succession

Food Web

Water Quality

Plant-Insect Interaction

Climate Change

Eutrophication

After you select the article, read through it and create 1 google slide that highlights the key points from the article. Be sure to include pictures and references in your slide. Be prepared to present it on the second day of class.

Task 3: Textbook Reading & Notes **due 4th day of class**

Read Chapters 40 - 43 in Campbell's Biology in Focus. Take detailed notes as you read. Pay attention to diagrams, figures, and tables embedded in the text & be sure to read the captions for all figures and inquiry box figures. The Ecology Unit Exam will address concepts in all 4 chapters, and will be administered the third week of school (after limited discussions of summer work and performing some labs). The course starts out fast, and the accelerated pace continues until the AP exam on May 4th. These can be handwritten or typed (but must be printed and physically submitted).

Task 4: Compare *There's a Hair in My Dirt* to observations at the Plainsboro Preserve **due 6th day of class**

Start by reading *There's a Hair in My Dirt*. As you are reading the book, write notes each time you see an idea or concept from your textbook readings from Chapter 40-43. These concepts can be mentioned in the text of *There's a Hair in My Dirt* or depicted in the drawings.

After you complete your Journal, visit The Plainsboro Preserve. Walk through the forest, around the lake, and (if possible) walk around the inside the Rush Holt Environmental Center. Take a picture in front of the Preserve entrance sign or the Environmental Center. **Post this picture on our AP Biology Classroom stream.** You can take a picture with multiple people in it, but please list who is in the picture (first and last name). **Take some notes on and pictures of** ideas and concepts from the textbook Chapters 40-43.

Complete a "*There's a Hair in My Dirt*/The Plainsboro Preserve Summary sheet" for each concept that you observed in the book and at the Preserve. It is expected that you will complete 5 of these "Summary Sheets". You can find the summary sheets posted in the AP Biology Summer Assignment 2022 Google Classroom (*code to join: 237oxuc*). You should include pictures from the preserve in your responses. Please include a copy of the trail map with a mark that indicates where you took your five Preserve pictures. The trail map can also be found in the AP Biology Summer Assignment 2022 Google Classroom. These can be handwritten or typed.

Required Materials for Class: (these should be brought with you to school on the first day and each day after)

- Lab notebook: 8.5 x 11 wirebound with at least 100 pages
- Black or blue pen
- #2 Pencils
- Colored pencils
- Calculator (any kind)
- Class binder with loose leaf or a notebook with a folder (this must be separate from the lab notebook)

AP Biology is challenging and requires a lot of time, but the study of biology is quite exciting and we think you will enjoy this course! We look forward to working with you. Get ready to think B1010GY!

Please reach out if you have any questions! We are so excited to meet you!

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