

AP Biology Summer Assignment 2023-2024

Please pick up your hardcover textbook in room 90 before the end of the school year!

Online Textbook Recommendations.

[Open Stax](#) (Chapter 3 Biological Molecules, Chapter 44-47 Ecology)

Lumenlearning.com [Biology for Majors II](#) (Module 25 -26 – Ecology)

Lumenlearning.com [Biology for Majors I](#) (Module 2 & 3 Biological Molecules)

Join AP Biology Summer Assignment 2023-2024 Google Classroom!

class code: d4ckic5

It is important for you to sign up for the AP Biology Summer Assignment 2023-2024 Google Classroom account.

This will serve not only as a place for you to submit your summer assignments, but a forum for questions and resource posting throughout the summer. Communication is a huge part of success throughout the course. Questions can be posted to the stream on Google Classroom. This will serve as a way for students to answer each other's question. Also, please do not hesitate to contact me throughout the summer using my email. esoult@eccrsd.us I will try my best to check it at least once a week.

Due Dates and Assignments:

Task 1: Important Biological Molecules Packet. (Posted in Google Classroom)

Task 1 will be due on **Friday, September 8, 2023** regardless of when your class meets on the rotating schedule for the 2023-2024 school year. This will count as a 20-point secondary grade for semester 1. Please submit your completed assignment to the assignment posting on Google Classroom by taking clear pictures of your completed assignment. Make sure you include each page. You will have an assessment on macromolecules within the first few weeks of school. That date will be announced after school starts. **To give you an idea of time required to complete this assignment, 3 hours.**

Task 1 should serve as a refresher of your freshman biology macromolecule knowledge. Follow the instructions in the packet to complete this task.

Some other great resources for more information include:

Khan Academy

<https://www.khanacademy.org/science/biology/macromolecules>

Bozeman Science Videos

(You will be seeing these in class!)

1. The Molecules of Life
<https://youtu.be/QWf2jcznLsY>
2. Carbohydrates
https://youtu.be/_zm_DyD6FJO
3. Lipids
<https://youtu.be/VGHD9e3yRIU>
4. Proteins
https://youtu.be/2Jgb_DpaQhM
5. Nucleic Acids
<https://youtu.be/NNASRkiU5Fw>

Task 2: Ecology Project.

Task 2 will be due **Monday, September 11, 2023** (regardless of when your class meets on the rotating schedule). Task 2 will count as a 46-point secondary grade for semester 2. Task 2 will cover important ecology concepts that we will be returning to and building on later during the year. It is important that you complete this assignment to build a strong foundation of ecology knowledge that we can refer to during the year. Please refer to the assignment posting on Google Classroom for task/project instructions and grading rubric. Note: You will be assigned a unique and specific biome to research for this project. **Posted in google classroom is a google sheet. Please review to find your name and ecosystem/biome to be investigated. If you do not see your name, please email me and I will assign your biome.** There will not be duplicates among your classmates. **This assignment will take a few days to complete.** There is a ton of information needed to investigate and pull everything together. Please do not wait to complete this assignment.

Some great resources to use (but not limit yourself to) for your research and background information:

1. AP Biology Textbook (upon return)

Chapter 44: Population Ecology, Chapter 45: Community and Ecosystem Ecology, Chapter 46: Major Ecosystems of the Biosphere, and Chapter 47: Conservation Biology. (Page 836 through page 918.)

2. Khan Academy Ecology

<https://www.khanacademy.org/science/biology/ecology>
<https://www.khanacademy.org/science/biology/biodiversity-and-conservation>

3. National Geographic Website

4. *World Wildlife Foundation Website*