

AP BIOLOGY – Summer Assignment

This course is designed to be equivalent to a two-semester introductory biology course in college. It will be a challenging yet rewarding experience for students. This summer assignment is developed to help you become familiar with major themes that persist throughout AP Biology.

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.

Besides ecology which is woven throughout the 4 big ideas , this assignment helps student develop strong technical reading and writing skills , try different study techniques, and develop effective time management skills. The amount of material covered in AP Biology is extensive. It is extremely beneficial for students to be prepared on the first day of class in August.

The attached schedule assigns 1 chapter in June, 2 in July and 2 in August. Students are free to complete the readings working around planned summer activities. Additional resources are available if students want to use them. Each assignment comes with an online “reading check”. This is to allow students to check their understanding of the material. No grades are given for the “reading checks”. During week 3 of school students are tested over 5 chapters of Ecology. Those completing their summer assignment should be well prepared for the fast pace of this very important unit.

CMA / Senior High A.P. Bio Summer Assignment 2023

Welcome to AP Biology at Carroll Senior High School! You are enrolled in a fun yet challenging course. Your summer assignment this year covers Ecology.

Textbooks:

For this summer, Use the ONLINE Textbook linked below:

<https://openstax.org/books/biology-2e/pages/1-introduction>

You will be working through the Ecology unit, which can be found in chapters 44, 45, 46 and 47 of this online text resource.

Study Guide:

AP study guides are beneficial but NOT required and not used in class. Visit the study guide section of your favorite bookstore to preview options before a purchase.

Summer Assignments:

Class: AP Biology 2023-2024

Code: CDP748

Step 1. Go to the Quia website at <https://www.quia.com/web>.

Step 2 Click Students. When the next page appears enter your user name and password if you already have a QUIA account. If not, click "create my free account" and complete the form.

Press "Create my account" when complete.

Step 3 – You are in "Student Zone" Type in the class code above and press "add class"

Reading Checks over Summer Material:

- 1) You can access videos, study guides, reading checks, and many other resources from this Quia webpage. Use resources you find helpful in your study of ecology.
- 2) Reading checks are meant to prepare you for the fall Ecology unit. The summer schedule is designed to provide flexibility for your many summer plans. Students may complete assignments at your convenience as long as you meet the stated deadline. Reading checks will be unavailable AFTER the deadline. The purpose for this is twofold: a) Encourage students to read, use all available resources and learn to study content over time, all excellent study skills. b) Enhance the student's time management skills, important for success in high school and college.
- 3) Reading checks are TIMED. Quizzes and tests during the school year as well as the AP Exam will be timed. An on-screen timer is visible during the Reading Check. If time reaches 0:00 the system will log a student out and record their progress at that time.
- 4) Students have unlimited access to a PRACTICE READING CHECK. This link allows students to preview question formats and learn to use the quiz site. Actual reading checks have TWO logins only.
- 5) I do not recommend using a phone for reading checks. Always check signal strength before beginning a reading check.
- 6) The summer reading checks are for self-evaluation, NOT for a grade. Do you truly understand the material? A strong performance indicates a thorough understanding while a poor performance indicates a need to continue your study of the unit's concepts. Self-evaluation is important for student success in this course.
- 7) DO NOT PROCRASTINATE on your request for website access- remember the 5 day turn-around time.
- 8) Students will take a test over the ecology summer reading during the first 3 weeks of school.

AP BIOLOGY Assignments by month:

Reading Check DEADLINES:

June:

chapter # 44 - Ecology and the Biosphere

Optional Chapter guides

Optional Posted Videos

Reading Check deadline is 10 pm, June 30th

July:

chapter # 45 - Population Ecology and Community Ecology

Optional Chapter guides

Optional Posted Videos

Reading Check deadline is 10 pm, July 31st

August:

chapter # 46 - Ecosystems

chapter # 47 - Conservation Biology and Biodiversity

Optional Chapter guides

Optional Posted Videos

Reading Check Deadline is 10 pm, Aug 31st

Please be honest and maintain the highest levels of integrity in your work. During the year **Taking screen shots, working together, posting questions/answers, making information available via the cloud or any site, using Skype, sharing logins/ copyrighted/ password protected material with tutors, using electronic devices or textbooks during quizzes or tests, allowing parents or tutors to do your work or help you with reading checks or quizzes are ALWAYS considered DISHONEST. Please refer to the Honor Code for consequences of academic dishonesty.

Have a great summer and enjoy your study of Ecology! We will see you in August....