



Mrs. Anna Valmores

Room K-8

Eisenhower High School

Welcome to AP Biology!! I am happy you have decided to join this class and have chosen to challenge yourself by learning more about Biology. I am confident that you will find this course both worthwhile and pivotal in your college preparation. Although it's summer, there's still work to be done. Please note, AP Biology is an elective, college-level course with higher student expectations than most courses taken by high school students. With that being said, we must get a jump start on the AP Biology curriculum. It is mandatory and in your best interest to complete the summer assignment. Your summer assignment consists of taking notes on **14 lectures accessed online**. These lectures will get you started, so we can hit the ground running as soon as the year starts. The first set of lectures is introductory and **extra credit**. Unit 1 lectures are **required** and will be checked on the first couple of days of school if not submitted online.

Assignments are to be turned in online (pictures) or in person by **August 15, 2025**

Google Classroom: Join code - **yheqn3yj**

The average length of a lecture is about 17 minutes, but you may find that you need to listen slowly and review it a couple of times. You will keep notes in a notebook. Any college-ruled notebook will do. Write your name on the front cover of your notebook with a Sharpie or permanent marker. Make a title page to separate each group of notes. The first group of assignments should be under the title: **AP BIOLOGY INTRODUCTION (If you choose to do it)** AND the second group should have a title page labeling them **Unit1-Chemistry of life This group is required**. The notes will be in the order given in the list below. Each page of video notes should have a title. These notes will be graded when you hand them in on the first day of school. You will be taking a biochemistry test on

the material covered in these lectures. We will be doing activities and labs in addition to the notes you will have taken.

So, here is the list of lectures you need to cover this summer:

Website: Bozeman Science AP Biology (under videos)- 14 Lecture Videos

AP BIOLOGY INTRODUCTION (OPTIONAL EXTRA CREDIT)

1. [Models and Representations](#)
2. [Using Mathematics](#)
3. [Scientific Questioning](#)
4. [Data Collection Strategies](#)
5. [Analysis and Evaluation of Evidence](#)
6. [Scientific Explanations and Theories](#)
7. [Scales, Concepts, and Representations](#)

UNIT 1- CHEMISTRY OF LIFE (REQUIRED)

8. [Carbon](#)
9. [Structure of water and Hydrogen bonding](#)
10. [Elements of Life](#)
11. [Intro to biological macromolecules](#)
12. [Properties of macromolecules](#)
13. [Structure and function of macromolecules](#)
14. [Nucleic Acids](#)

Fourteen lectures and eight weeks to accomplish the task. Do a thorough job when taking notes by including graphs and diagrams. These notes will be useful when reviewing for the tests, especially the AP exam. **The points earned on this assignment will go towards the first-semester grade.**

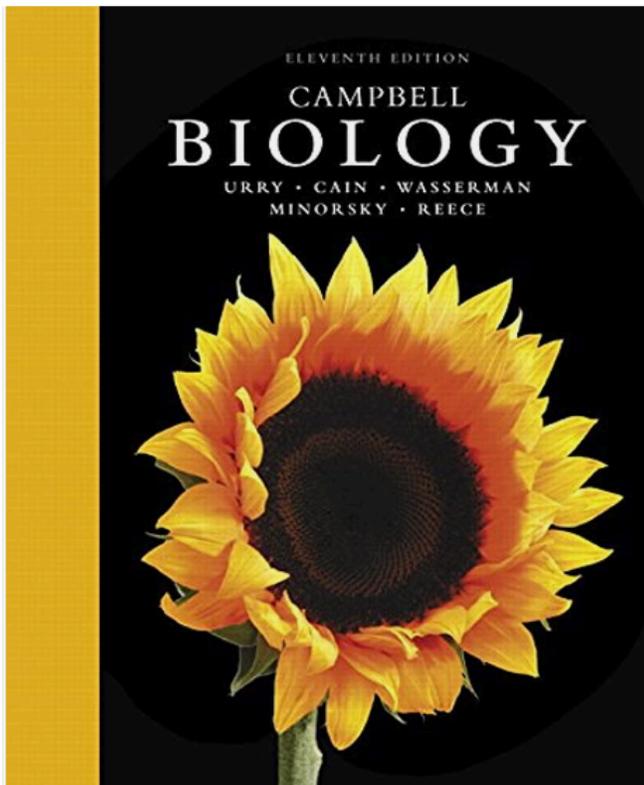
I also suggest you purchase a review book, BARRON'S Test Prep Series for AP Biology by Mary Wuerth, M.S.. Make sure it is the 2025 edition. There are others, such as Princeton Review, that are useful but look a little different. So go look and see which book

format you like the best. You might find these books helpful for review and practice for the exam.

You can reach me by email over the summer if you have a question or concern. My email address is avalmore@rialtousd.org. Get lots of rest over the summer, do not procrastinate, and be ready for the challenge and the fun!

Materials needed:

1. Composition book or notebook
2. A computer or phone with access to the Internet for lectures. If you need a hotspot, the library can check one out to you.
3. AP Biology textbooks can be checked out from the library at EHS at any time during the summer.



4. Optional: BARRON'S Test Prep Series for AP Biology by Mary Wuerth, M.S..

See you in August!

Mrs. Valmores

For your convenience, in case you are unable to just follow the links or join the Google Classroom, I am attaching a list of the videos. These can be searched by using any computer or smartphone device. All that is required is that you watch the videos and take notes. Make sure to write the title of the videos so that it is clear what notes go with each video. Keep everything organized. (Read the instructions above.) In case you are unable to complete the work due to accessibility, let me know and I can extend the due date for the "required" portion of the assignment. **Optional:**

Title
UNIT 0 INTRODUCTION- OPTIONAL

Instructions (optional)
UNIT 0-
Watch videos and take notes.
Write down title so it is clear you have notes for all 7 videos

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APB Practice 1 - Models & Representations — bozemanscience
<http://www.bozemanscience.com/apb-practice-1-models-representations>



APB Practice 2 - Using Mathematics — bozemanscience
<http://www.bozemanscience.com/apb-practice-2-using-mathematics>



APB Practice 3 - Scientific Questioning — bozemanscience
<http://www.bozemanscience.com/apb-practice-3-scientific-questioning>



APB Practice 4 - Data Collection Strategies — bozemanscience
<http://www.bozemanscience.com/apb-practice-4-data-collection-strategies>



APB Practice 5 - Analysis & Evaluation of Evidence — bozemanscience
<http://www.bozemanscience.com/apb-practice-5-analysis-evaluation-of-evidence>



APB Practice 6 - Scientific Explanations & Theories — bozemanscience
<http://www.bozemanscience.com/apb-practice-6-scientific-explanations-theories>



APB Practice 7 - Scales, Concepts & Representations — bozemanscience
<http://www.bozemanscience.com/apb-practice-7-scales-concepts-representations>

Attach

Add-ons



Required:

Title
Introduction to Biological Macromolecules | AP Biology 1.3

Instructions (optional)

B *I* U ☰ ✎



AP Bio: Carbon
YouTube video • 14 minutes



1.1 Structure of Water and Hydrogen Bonding - AP Biology
YouTube video • 10 minutes



1.2 Elements of Life - AP Biology
YouTube video • 11 minutes



Introduction to Biological Macromolecules | AP Biology 1.3
YouTube video • 14 minutes



Properties of Biological Macromolecules | AP Biology 1.4
YouTube video • 15 minutes



Biological Macromolecules: Structures, Functions, and Directionality | AP Biology 1.5
YouTube video • 14 minutes



Nucleic Acids: The Structures and Functions of DNA and RNA | AP Biology 1.6
YouTube video • 11 minutes