

AP Biology Summer Assignment 2026-27
Mrs. Anderson

Hello and welcome to AP Biology! This course is designed to be the equivalent of a two-semester introductory biology course usually taken in the first year of college. Throughout the course, you will become familiar with major recurring themes that persist throughout all topics and material.

The major themes are:

- I. Science as a Process
- II. Evolution
- III. Energy Transfer
- IV. Continuity and Change
- V. Relationship of Structure and Function
- VI. Regulation
- VII. Interdependence in Nature
- VIII. Science, Technology and Society

To successfully complete the course and meet all of the required objectives, you are required to do independent work both during the summer and throughout the school year. The major themes will be reviewed in Chapter 1 of your text. I also chose Chemistry for you to cover over the summer because it will serve as a review of what you should know from having already taken Chemistry, and will allow us to get right into Biological Processes at the beginning of the year. For your summer assignment, as well as for the year, you will be using the 10th edition of *Biology* by Campbell and Reece.

Please let me know if you have any questions regarding any part of the summer assignment, do not hesitate to e-mail me. My e-mail is aanderson@oxfordasd.org.

There are three parts to this summer assignment:

1. Fill out the second page of this packet and email it to me. This is a general survey for me to learn a little about you.
2. You will create a “one-pager” for Chapters 1- 5. You will need a separate ringed notebook for this which will be used all year long.

Expect a test on this material within the first week of school!

Part I- Student Information Sheet

Name: _____

Grade (for the 2026-27 school year): _____

E-mail: _____

1. Why did you sign up to take AP Biology?

2. What are your personal strengths when it comes to learning new material?

3. What causes you to struggle in a course?

4. What is the most effective way for you to prepare for a test?

5. What do plan to major in when you get to college?

6. Do you plan on taking the AP exam (**highly recommended**)?

7. How many AP courses are you enrolled in? (Please list).

ONE-PAGER DIRECTIONS

A one pager is a double page response and note taking device for your nightly reading. It is a way of making your own pattern of your unique understanding of biology and the textbook. It is a way to be brief as well as to recall a large volume of information. We learn best when we can create our own patterns.

- Create the one-pager to demonstrate your understanding of the context of your thinking and what you have read.
- Be sure to add color! The more visually appealing- the more you can learn from your patterns.
- One-pagers are worth 30 points total and are due at the conclusion of each chapter.

Directions:

1. Use a visual image or images from your book to create a focus for your page.
2. List each subheading (bold print in text) and summarize with a 2-3 bullet list. Make sure that the information you put is well thought out. It should be a SUMMARY of what comprises that section and not just the first 2-3 things you read!!!
3. Identify 10 total key terms from the chapter: 5 overriding key terms and 5 terms that are new to you: define them AND use the word in a sentence.
4. Opening Question: Every chapter opens with a visually dynamic photo accompanied by an intriguing question that you answer.
5. Chapter Review Question: At the end of every chapter (before the summary of key concepts) there is a question that relates back to one of the Big Ideas.
6. Make Connections: Within the Figures and Concept Check questions there are **MAKE CONNECTIONS** questions within the chapter (not the review). Answer all these questions.
7. Scientific Skills Exercise: Identify the hypothesis, explain the experiment and analyze the data within the experiment.
8. Synthesize your knowledge: Apply your understanding of the chapter by explaining an intriguing photo.
9. Connect to Big Idea 4: This question will help you think about how this chapter relates to interactions.

10. Choose one figure that you believe is the most important for understanding the chapter.
Draw it using appropriate labels and explanations.

(1) Visual Image		Chapter No. and Title of Chapter	
(2) Chapter Subheadings and Summaries With (3) Ten key terms with definitions and sentences.			
(4) Opening question	(5) Chapter Review question		
NO TYPING			

(6) MAKE CONNECTIONS	
(7) Scientific Skills Exercise	
(8) Synthesize your knowledge	
BE COLORFUL!	
(9) Connect to Big Idea 4	(10) Figure with description

