

AP Biology Summer Assignment 2017

Welcome to AP Biology!! I am so excited you've decided to join me on this great journey through biology and I'm really looking forward to our time together this year. **It will be a challenging year but I hope you find it one of the most rewarding experiences you'll ever have.** It will change the way you look at and understand the world. **Whoa Bio!**

AP Biology Summer Assignments (Pay close attention to due dates!!)

Start early! Don't wait until the last minute!

Please log on to Google Classroom using your sanmateohigh.org account. Please join the class by using the invite code: **3c4ndu.**

1. **AP Biology Student Information Survey:** Please go to Google **Classroom** and fill in the Survey. I will need this information to communicate with you over the summer. Complete the survey by **June 1st**.

THE FOLLOWING ITEMS ARE ALL DUE ON THE FIRST DAY OF SCHOOL, AUGUST 17

2. **Bozeman Biology Videos:** Mr. Anderson is an AP Biology Teacher Extraordinaire who has posted all of his lectures online. I recommend you watch each video before doing the study guide listed in part 3. For each of the following videos, you will:
 - a. Write a $\frac{3}{4}$ page summary – highlighting the main ideas of the video.
 - b. Explain how the topic fits into one of the 4 Big Ideas of Biology (except the 1st video which is on the 4 Big Ideas)
 - c. Watch the video for the chapter BEFORE attempting the study guide.
 - d. **Due: First Day of School**

Video	Study Guide Chapter
Biology	None - Intro
Biotic and Abiotic Factors	Chapter 52
Ecosystem	Chapter 53
Population	Chapter 54
Ecosystem Changes	Chapter 55
Biodiversity	Chapter 56

3. **Textbook Reading:** Read the following chapters and complete the study guides for them. The study guides are posted in Google Classroom. **Due: First Day of School**
 - a. **Chapter 52:** An Introduction to Ecology and Biosphere
 - b. **Chapter 53:** Population Ecology
 - c. **Chapter 54:** Community Ecology
 - d. **Chapter 55:** Ecosystem and Restoration Ecology
 - e. **Chapter 56:** Conservation Biology and Global Change
4. **Book Project: Biology in Context:** Read the book *Survival of the Sickest: The Surprising Connections Between Disease and Longevity* by Sharon Moalem. **Due: First Day of School**
Reading Log and Book Chat: (Posted in Google Classroom.) Your assignment is to keep a log of questions that you have about each chapter; write down ideas/concepts/topics which come to mind as you are reading the book. Bring this log with you to the first day of class

TURN OVER!!

Class Details and other Minutiae

Highly suggested materials:

1. Composition Book (for lab data)
2. Large (3-4 inch) 3 ring binder. Should be sturdy.
3. Sturdy Notebook Dividers
4. Pens
5. Pencils (regular and color)
6. Highlighters
7. Ruler
8. Calculator
9. A few page protectors for important documents.

The Textbook:

Reece et al., Campbell Biology AP® Edition, 10th Edition

Be sure to check out a copy of the book before summer vacation.

How to read for content in AP Biology

This book is different from almost any other textbook you've used. It is not possible to just sit down and try to answer the study guide questions without doing some serious work first.

1. Watch the video
2. Survey the section/chapter.
 - a. Look over the list of key ideas.
 - b. Read the bold headings.
 - c. Look at the pictures and read their captions.
3. Read one section of a chapter once, using the glossary to help with unfamiliar terms.
4. Answer the questions in the Concept Check. Check your answers in Appendix A.
5. Repeat for the rest of the chapter.
6. NOW, do the study guide which will help you focus on the key ideas.
7. Do the quiz at the end of the chapter to check for your understanding.
8. Make a note of ideas with which you are struggling and then come in for help!