

AP BIOLOGY  
Summer Homework: 2021-22

DUE FIRST DAY OF CLASS  
AUGUST 2021

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*A copy of this document can be found on our class*

*Documents website... <https://christhiessenbiologyhome.weebly.com/>*

Dear Student,

Welcome to AP Biology! The summer homework is your introduction to AP Biology, and is all about Ecology. Students failing to complete **required** summer work will have their assignment grade dropped a full letter grade on the first day it is late. 1 week after the due date the assignment will be graded as a zero. Missing the required due date will significantly reduce your fall semester final grade in AP Biology. It is important to note that students earning a grade of D or F at the three week mark may be removed from AP Biology enrollment. With that said, work hard, stay focused, and be sure to get your summer work completed so you can continue to be enrolled in AP Bio for the 2021-22 school year! If you work on this assignment 3 days a week it should take no more than 5-7 weeks to complete the work. Get started in June to spread out the work over a longer period of time.

Why summer work? The College Board Objectives outline for AP Biology is broad and deep. We have the months of September-March to complete the curriculum (April is saved for review) prior to AP testing in May. In order to cover ALL of the curriculum we must dive into our learning during the summer months. Summer work allows us to intentionally slow down on certain hard topics/labs during the school year and gives us 6+ weeks of time to review before the AP Biology Exam in May.

Thank you,

Mr. Thiessen

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Digital Docs Website—<https://christhiessenbiologyhome.weebly.com/>

The chapters covered in the summer work will be summarized the first 2 weeks of school. Please review the material shortly before returning to school. The College-level Biology textbook is written to be **read and re-read**. If you do not understand, you should stop and re-read until you understand.

OVER→

## What is the "Assignment?":

Only hand written work will be accepted.

1. Visit the digital documents website. Familiarizing yourself with the site. You are welcome to email questions to your teacher and peers over the summer and during the school year.
2. Join our google classroom: code: iswhytc
3. Sign up/create an account on Mastering Biology to gain access to the digital AP Biology textbook. Information on how to set up an account will be posted in Google Classroom and my class website.
  - a. Campbell: Biology In Focus 2nd Edition (picture of a Snow Leopard on cover)
  - b. The physical textbook will be checked out in August.
4. Read each assigned chapter (IN THE ORDER listed below). You will not want to do this...DO IT!!!
5. For EACH chapter...**only hand written work will be accepted.**
  - a. Write a  $\frac{1}{2}$  - 1 page summary of the chapter.
  - b. Re-read EACH Chapter-no joke
  - c. Complete Concept Check questions and answers in Cornell Notes Style. These questions are spread throughout each chapter located in white boxes titled in green "Concept Check."
    1. List the question on the L side of the page (you can paraphrase them), and list the answer on the R side of the page.
    2. Each chapter will have a different number of Concept Checks.
    3. Do the work on your own without using the appendix.
  - e. Visit the Bozeman AP Biology Website at <http://www.bozemanscience.com/ap-biology/> and watch videos assigned to you that correspond to the summer work chapters below.
    1. For each of the chapter videos write 5 statements that summarize the video. Include these video summaries behind your concept checks for each chapter.
5. Compile your work in a binder in the following order for each chapter:
  - a. Chapter tab-Chapter # and Topic listed
  - b. Chapter Summary
  - c. Chapter Cornell Notes Concept Checks
  - d. Bozman Videos 5 statements

Turn in your work on the first day of class in August.

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Expect to be tested on all of the content in these chapters within the first 2 weeks of school. This is independent study work so there will be little to no direct instruction in class on the content in the summer work chapters; YOU are responsible for learning, understanding, and reviewing the summer work concepts. Use some of the review links at the bottom of our class website for assistance. Again, the Bozeman AP Biology tutorial site is at...<http://www.bozemanscience.com/ap-biology/>

### The Summer Work Chapters

- Chapter 40      Population Ecology and the Distribution of Organisms  
Bozeman Videos:  
a. 020 Biotic and abiotic Factors  
b. 050 Populations  
c. Exponential Growth (at bottom of Bozeman page under "Supplemental")  
d. Logistic Growth (at bottom of Bozeman page under "Supplemental")
- Chapter 41      Species Interactions  
Bozeman Videos:  
a. 019 Response to External Environments  
b. 046 Communities  
c. 049 Cooperative Interactions
- Chapter 42      Ecosystems and Energy  
Bozeman Videos  
a. 014 Environmental Matter Exchange  
b. 22 Homeostatic Disruptions  
c. 047 Ecosystems  
d. 055 Biodiversity
- Chapter 43      Global Ecology and Conservation Biology  
Bozeman Videos  
a. 051 Ecosystem Changes  
b. Biology (at bottom of Bozeman page under "Supplemental")