

AP BIOLOGY  
Summer Homework: 2018-19

DUE FIRST DAY OF CLASS  
AUGUST 2018

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A copy of this document can be found on our class  
Documents website... [www.cloviseastapbiology.weebly.com](http://www.cloviseastapbiology.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 2018-19 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 May 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.

Thank you,  
Mrs. Whittaker  
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Digital Docs Website—[www.cloviseastapbiology.weebly.com](http://www.cloviseastapbiology.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.

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## 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. Check out the AP Biology textbook from the LMC before the end of the school year.
  - a. Campbell and Reece: Biology 7<sup>th</sup> Edition (pic of a fiddlehead, a baby fern leaf, on cover)
3. Read each assigned chapter (IN THE ORDER listed below). You will not want to do this...DO IT!!!
4. For EACH chapter...**only hand written work will be accepted.**
  - a. Write a  $\frac{1}{2}$  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 yellow boxes titled in blue "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.
  - d. Complete Evolution Connection question/prompt at the very end of the chapter assessment.
  - 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. Evolution Connection
  - e. 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            Basic Principles of Animal Form and Function  
Bozeman Videos:  
a. (scroll to bottom of video page) Review-Homeostasis  
b. (scroll to bottom of video page) Q10-The Temperature Coefficient
- Chapter 51            Behavioral Ecology  
Bozeman Videos:  
a. 026 Behavior and Natural Selection  
b. 019 Response to External Environments
- Chapter 50            Introduction to Ecology and the Biosphere  
Bozeman Videos:  
a. 020 Biotic and Abiotic Factors  
b. 014 Environmental Matter Exchange
- Chapter 52            Population Ecology  
Bozeman Videos:  
a. 050 Populations  
b. Exponential Growth (at bottom of Bozman page under "Supplemental")
- Chapter 53            Community Ecology  
Bozeman Videos:  
a. 046 Communities  
b. 049 Cooperative Interactions  
c. 051 Ecosystem Changes  
d. 022 Homeostatic Disruptions
- Chapter 54            Ecosystems  
Bozeman Videos:  
a. 047 Ecosystems  
b. 055 Biodiversity