

Advanced Placement Biology 2014-2015 Summer Assignment

Dzienis

Welcome!

Welcome to AP Biology. This is a college-level course and therefore is taught with the rigor and expectations of an equivalent freshman course. In order for us to move quickly through the content, perform multiple in-depth labs, and prepare you to be successful on the AP exam, it is imperative that you are well-prepared to begin the fall semester.

This summer assignment is designed to give you a head-start on the path to success. **The various tasks I expect you to complete require that you purchase Barons: AP Biology, 4th Edition, 2013 by Deborah Goldberg.** Make sure it is the 4th edition since we will be using it as a common class resource throughout the year and because it is structured around the new AP Biology exam format (you can buy them used on amazon, or brand new wherever). You will need to have Internet access to complete this summer assignment. The public library is a good resource for this if you do not have access at home. You will always have this resource available to you on campus during the school year. **Your summer assignment will be due on the first day of school. Assignments turned in one (1) day late will receive a 50% penalty. Late registrants or move-ins will receive information from their counselor.**

GET your TEXTBOOK from the MOON VALLEY BOOKSTORE before you leave for summer Campbell and Reece's Biology Seventh (7th) Edition. Some students like to order a used copy from Amazon.com or other online store so that they can write in it. If you use the school's copy, get some "Post-It" notes to write on, then stick on the related pages.

If you haven't already done so, you should become familiar with the College Board website. Go to http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/2117.html to find the AP Biology Home page. Many colleges offer credit for their introductory biology class to students who receive a score of a 3, 4 or 5 on the AP test. You should discuss transfer or acceptance of grades with the college or university you plan to attend.

If you have questions over the summer regarding the summer assignment you may email me at stephen.dzienis@guhsdaz.org. Please put your name, first and last, in the subject line. I will check my email on a weekly basis over the summer, so don't stress out if I don't get back to you right away. Plan ahead—don't wait until the last week to complete this work. If you do a little at a time it will not be overwhelming and you will be well-prepared to begin the course in August. I look forward to working with you and helping you make your AP Biology class a fun and entertaining challenge.

In AP Biology we will be studying various facets of organisms and their environments. For this summer assignment, you will be looking at a little bit of both to get you started for the course. This topic, called "ecology" is the study of organisms and their interactions with each other and their environment and makes for a good summer assignment since it incorporates information you already know from previous science courses and additionally the information presented in ecology is often easier for students to visualize compared to some of the sub-microscopic biochemical reactions we will study later.

Summer Activities:

- 1) In your text book, read the following chapters: Ch. 52 Population Ecology, Ch. 53 Community Ecology, and Ch. 54 Ecosystems
- 2) For each one of the chapters, fill out a guided reading. You can find the guided reading on the Biology Junction website, follow the directions below to find them:
 - www.biologyjunction.com
 - Under "my classroom material" click on **AP Biology**
 - In the right hand column, the third row down it says "Guided Reading Cambell 7th" click on that and print the three chapters required, fill them out as you read.
- 3) After reading, if you want to clarify anything you have read, I strongly suggest going to the youtube channel **Crash Course** and watching [Ecology - Rules for Living on Earth: Crash Course Biology #40](#), and then all of the **Crash Course Ecology** videos. Hank is awesome, and he is a great source of information for when I am not there to help.

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4) In your Baron's book, turn to chapter 15, and annotate the paragraphs and the pictures (yes, I am telling you to write in your book). Do it how you think it will best help you, and I will give you pointers when the semester starts.

5) Lastly, get familiar with the prefixes and suffixes list attached to this paper, you will have an assignment using them the first day of school when we come back. **YOU DO NOT NEED TO KNOW ALL OF THEM**, just get familiar with the list and try to be able to at least know 25 solidly!

Returning to school:

On the first day of school be prepared to turn in your three guided reading, have your Baron's book checked for the annotations and ready to be quizzed on the prefixes and suffixes.

Be prepared to participate!

◇ Have necessary materials: 3-ring binder with notebook paper and dividers, pens, pencils, highlighters, and a calculator.

*** In this class I will expect you to be proactive and self-directed to research difficult concepts. If there is any part of this assignment that is confusing or challenging for you I expect you to recognize you need more practice, and find resources on your own, to further your understanding. Search the Internet, study Cliffs, visit the public library, read old biology books, or check out the useful websites on my SHS website to assist you in completing the task. Do not wait for me to tell you how to study. If all else fails, remember you may email me at the above address for guidance.*