

Pre-Advanced Placement (Pre-AP) Biology 2019 Summer Assignment

Pre-AP Biology is designed to challenge students and prepare them for a successful AP Biology experience as well as the State of Texas Biology End-of- Course Exam (EOC).

By our standards, success is not only measured by the course grade on your high school transcript. Success is a measure of your ability to obtain an excellent grade on the Biology EOC, your level of preparedness for college-level courses, your growth as a student and in content knowledge. In order to be successful, you will have to commit yourself to a regular schedule of study time, readings, research, and the pursuit of higher understanding of the biological sciences.

In order to demonstrate your level of commitment to Pre-AP Biology, you will first need to complete a series of summer assignments. Because most of you are unfamiliar with our teaching practices, please know that we avoid assigning “busy work” at all costs, and this practice begins with this summer assignment. You should consider it meaningful and worthy of your time if you wish to see success in Pre-AP Biology this school year.

In addition, we spend a great deal of time in the lab applying biological principles learned. Safety is of the utmost importance. A large portion of this assignment is dedicated to reviewing safety and lab equipment. You will be unable to participate in any lab experiences until it is complete and accurate. You will be given alternative learning experiences that do not require lab participation until accurate completion is shown.

Please initial next to each assignment as it is completed. While each portion of this assignment may not be graded individually for accuracy, your first grade in the course will come from your adequate completion of this summer assignment. **Be prepared to turn this paper in on the first day of the 2019-2020 school year along with all portions of the assignment.**



Part 1

_____ Create a Pre-AP Biology Notebook using a composition notebook. This should be a new composition notebook (picture to the right) with no writing and contain at least 100 pages. It can be any color you choose. Remember this is **not a spiral!** Once you have your notebook, use the instructions on the Word document titled Pre AP Summer Assignment Journal Set Up to complete the journal set up. Here is a brief description of each section:

- _____ Cover page: Students will need to design a cover page to their journal that includes their name. This cover page needs to reflect the student and the subject of biology. The cover needs to be colorful and include pictures, which can be drawn, photos, or clippings from magazines. Use the template provided in the journal set up instructions.
- _____ Table of contents. This is optional. Follow the instructions in the journal set up.
- _____ Science about me! Help your biology teacher get to know you. Follow the instructions in the journal set up.
- _____ What is an A. Follow the instructions in the journal set up.
- _____ Policies and procedures. Follow the set up instructions.
- _____ TEKS summary. Students will access and print a summary of the TEKS that they are responsible for learning this year.
- _____ Root Words: Most of the vocabulary in biology is based in Latin, so students will need to study prefixes and suffixes and explain what their words mean through definitions.
- _____ Lab Equipment. Students will familiarize themselves with various lab equipment that we will use throughout the year. Follow the journal set up instructions.
 - _____ Print the assignment titled “Lab Equipment use and care” This document proper use and care of lab equipment. Use this document to complete the lab equipment naming and functions in the journal set up.
 - _____ Lab equipment practice questions. Complete the practice questions using the “Lab Equipment Use and care”

- _____ Parts of a microscope. Complete the worksheet titled “Coloring a microscope”. Follow the journal set up instructions.
 - _____ Parts of a microscope practice questions.
- _____ Safety rules. Students will watch a short video clip and read lab scenarios to identify incorrect and correct safety procedures. Title the next 4 pages “Lab Safety” Complete the video clip below and the 4 worksheets in the journal set up instructions.
- _____ Safety symbols. Students will review safety symbols. Complete the worksheet in the journal set up instructions.
- _____ Characteristics of life. Complete the journal set up instructions.
- _____ Levels of organization. Print the document titled “Levels of organization nesting boxes.” Complete the activity by following the instructions in the journal set up instructions.
- _____ pH Scale. Complete the journal set up instructions.

Part 2

- _____ Science Safety. Read through the Flinn Science Safety Contract. Sign the contract. You will turn in both science safety forms on the first day of school.
- _____ Watch the video by scanning the QR code. While watching the video fill in the worksheet titled “Zombie College-the 5 Rules of Lab Safety.” This worksheet is found in your journal set up instructions. 
- _____ Use the following article to label the safety symbols and answer the questions found in your journal set up instructions. Access the article by typing in the following URL code or scanning the QR code. http://www.ccohs.ca/teach_tools/chem_hazards/symbols.html 

Part 3-Wait to complete part 3 until after you receive your schedule.

Complete the survey regarding your incoming opinions regarding Pre AP biology.

- To access the survey use the QR code. Or type in the following URL code: <https://goo.gl/forms/OmSEpooX0KjRdn5Y2>
- The survey is anonymous. All we receive is a summary of results.
- It requests your email so that you receive credit, but does not give individual responses per email address.



To access you must use your school google email. If you are a new student, and do not have a school email, you will be given additional time to complete this survey.

- **Supplies** requested of Pre AP students
 1. **All Students:** one roll of **paper towels****
 2. Please purchase the additional supplies according to the schedule below:
 - a. **1st period**-one pair of **scissors**
 - b. **2nd period or 6th period**- one box of **map pencils (MUST include PINK)** and one bottle of **glue****
 - c. **3rd period**- one bottle of **dish soap** (such as DAWN)
 - d. **4th period**- one box of **latex gloves**
 - e. **5th period**- one container of **Lysol wipes**
 - f. **7th period**- one box of **quart size Ziploc’s**

If possible, please purchase Bounty or Viva. The **paper towels are used in the science lab for clean-up and certain lab experiments can be compromised by paper towel lint. These are the two brands that we have found to leave the least amount of residual lint.

** If possible, please purchase **bottled glue** and not glue sticks. Glue sticks degrade much faster than bottled glue and students begin losing papers from their journal before the end of the year.

We truly hope you develop a passion for biology, as we did, through the mental challenges that lie ahead on your journey to earning credit in college-level biology and look forward to meeting you in August.

Sincerely, Aledo Biology Staff