

**AP Biology Summer Assignment 2019
(60 points)**

AP Bio Summer Assignment Part I – Letter of Introduction – Due August 26, 2019 (10 points)

Draft a letter to me following these rules:

a. Use clearly written, full sentences. Do not abbreviate words like you are texting with a friend. Use spell check! This is a professional communication like you would have with a college professor, so let's practice for your rapidly nearing future!

b. Make the Title: "AP Bio: Introduction to <Insert Your Name Here>"

c. Begin the letter with a formal salutation, like "Dear AP Bio Teacher" or "Dear Ms. Broo"

d. Now introduce yourself (your name) and tell a little bit about yourself, like:

- What do you like to do (hobbies, sports, music, interests, etc.)?
- Do you have a job?
- Tell me a little bit about your family (Mom? Dad? Guardian? Siblings? Pets?)
- What do your parents/guardians do for a living? Is anyone else in your family interested in science?
- How many AP's are you planning to take next school year? What are your career or college dreams? Is success in AP Bio a part of those plans?
- Was there anything that you liked about your earlier biology class?
- What was the last book you read for fun?
- What are you looking forward to the most in AP Biology?
- What are you most anxious about in AP Biology?
- Why are you taking AP Biology? What do you expect to get out of the class?
- Feel free to include any extra information that you would like me know.

AP Bio Summer Assignment Part II – *The Story of Life: Great Discoveries in the Biology* – Due August 30, 2019 (50 points)

Read the following six stories from the book *The Story of Life: Great Discoveries in the Biology* by Sean B. Carroll. We will be using this book all year as a supplement to your regular AP Biology textbook. Answer the questions and perform any tasks associated with each story. All questions must be answered in complete, grammatically correct sentences. Some questions can be answered in 1-2 sentences. A few will require 7-10. You may use outside resources (ex – internet, New York Times, scientific journals etc.).

However, all answers must be in your own words and demonstrate that **you** understand the scientific concepts and the process of science.

Part I The Process of Science

1. Read the Appendix and “Guts and Glory” – Question 1 (parts a-g)
2. Read “First Do No Harm” – Questions 1-4 AND find a current article (dates must be from May –August 2019) on the measles outbreak (or another disease outbreak) and summarize the article in 4-5 sentences. Cite your article in MLA format below your summary.

Part III Evolution and the Origins of Biological Diversity

7. Read “Great Minds Think Alike” – Questions 1-3
8. Read “An Explosion of Animals” – Questions 1-6 AND use the internet to research Ohio’s state fossil. Write 4-5 facts about the fossil
11. Read “Queen of the Stone Age” – Questions 1-5

Part IV Ecology

16. Read “The Future of Life on a Hockey Stick” – Questions 1-4 AND find a current article (dates must be from May –August 2019) on climate change and summarize the article in 4-5 sentences. Cite your article in MLA format below your summary.

I highly suggest doing one article a week starting July 1. Don’t wait until the last minute! I will be grading 4 of the 6 articles. This assignment will count as a **50-point quiz grade**. Late assignments will lose 25% per day.

Email me with any questions! jbroo@mariemontschools.org

Have a great summer!

Ms. Broo