

AP Biology Honors: Summer Assignment

Welcome to AP Biology. I'm your instructor, Mrs. Lewis. I look forward to having you in class next school year. Please complete the following three part assignment over the summer, then photograph and submit into Google Classroom on or before the first day of school.

The summer AP Biology assignment has three parts:

- I. Read The Autobiography of Charles Darwin, available free online as an ebook at <https://www.gutenberg.org/cache/epub/2010/pg2010-images.html> or listen to the audiobook free online at <https://librivox.org/the-autobiography-of-charles-darwin-by-charles-darwin/> . See below for instructions on taking notes. We will discuss Charles Darwin's life and the impact of his theories during the first week of class and throughout the year.
- II. Root Words: Understanding the Greek and Latin roots of words used in Biology will help you to understand the concepts in AP Biology and beyond. Fill in the meanings of the word parts in the table attached.
- III. Video Learning: Watch the assigned videos and record your notes on the attached worksheet.

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- I. While listening to or reading The Autobiography of Charles Darwin (1881), take notes on separate paper and answer the following:
 1. What does Charles Darwin have to say about his education?
 2. What education in science had Darwin received prior to his trip on The Beagle?
 3. How does Darwin describe his relationship with his father?
 4. What is your impression of Charles Darwin's character and values?
 5. During his lifetime, how does Charles Darwin's attitude toward the Church change?
 6. What does Darwin tell us about the influence of Charles Lyell on his ideas and work?
 7. Thomas Huxley was nicknamed "Darwin's Bulldog" because of the way he defended Darwin's ideas. What does Darwin have to say in his autobiography about Huxley.
 8. What does Darwin have to say about his own influence on the 'beliefs' of others?
 9. How did illness impact Darwin's life and attitudes?
 10. Why do you think Darwin refers to his ideas on the origin of species, not as a theory, but as "the Doctrine of evolution"?

Name _____ Date _____ Table _____

II. Find and write in the meaning of the following Greek/ Latin root words:

Root	Meaning	Root	Meaning
A- /an		-genesis	
aer-		histo-	
-amine		hydro-	
amyl-		hypo-	
ante-		-ize	
aqua-		kine-	
auto-		lith-	
-ase		-lysis	
-ation		macro-	
bi-		micro-	
bio-		mono-	
-blast		meta-	
Brady-		-morph	
capno-		-ology	
Chromo-		-ose	
chrono-		-path	
-cide		Ped-	
Con-		peri-	
-cyte		phago-	
De-		-ped	
di-		photo-	
derm-		pro-	
ecto-		Pseudo-	
endo-		poly-	
epi-		pyro-	
exo-		-therm	

Name _____ Date _____ Table _____

III. Watch the following videos. Take notes on separate paper and submit:

1. AP Bio Chemistry Overview (Science with Johnson):

[https://www.youtube.com/watch?](https://www.youtube.com/watch?v=sHKol0DhRk8&list=PLcR22fsoM8Rsi2k4JWwjkKINo9Q_xSGMr)

[v=sHKol0DhRk8&list=PLcR22fsoM8Rsi2k4JWwjkKINo9Q_xSGMr](https://www.youtube.com/watch?v=sHKol0DhRk8&list=PLcR22fsoM8Rsi2k4JWwjkKINo9Q_xSGMr)

2. Molecules of Life (Bozeman Science AP Biology):

<https://www.youtube.com/watch?v=QWf2jcznLsY>

3. AP Biology Overview of Everything (Lasseter's Lab):

<https://www.youtube.com/watch?v=Kuxic6y6pwk>