

Assignment # 1

Personal Letter



Welcome to AP Biology! We're going to be spending a lot of time together next year delving into some pretty intense content. So, I think it's best that I get to know a little about each of you before the school year begins.

Your first assignment is to successfully send me an email by **June 30th**. Please email me at tsukalo@d230.org. Use your current school gmail address and make the subject line your first and last name, AP Biology Intro. Example: John Smith AP Biology Intro

Draft the email to me following these guidelines:

- a. Use clearly written complete sentences. Do not use "text lingo" and be sure to spell check your work. Consider this a professional communication between yourself and your college professor.
- b. Make the subject "AP bio Intro to <insert your name>"
- c. Begin with a formal salutation
- d. Now introduce yourself and tell me a little about yourself.
 - a. What activities / sports are you involved in at Andrew?
 - b. What are your hobbies?
 - c. Do you have a job? Or do you plan on getting one during the school year?
 - d. Tell me a little about your family (mom, dad, siblings) What do your parents do for a living? IS there anything special you would like me to know about your living arrangements?
 - e. What are your plans after high school? College, career choices, etc.?
 - f. What other science courses have you taken at Andrew? Was there anything particular that you liked about those classes?
 - g. What are you looking forward to the most in AP Biology?
 - h. What are you the most anxious about in AP Biology?
 - i. Why are you taking AP Biology? What are you hoping to accomplish?
 - j. Who did you have for freshmen biology? How did it go?
 - k. Anything else you would like me to know?

Please include a recent photo.



Assignment #2

Adopt a Plant



Meet your new responsibility!!

Coleus:



Begonia Rex Plant:



Spider Plant:



Peace Lilly:



African Violet:



Golden Pythos:



Wandering Jew:



Zebra Plant:



Mother in Law Tongue:



Purpose:

To get you to experience that plants are living, breathing, growing, and responsive creatures.

Your Goal:

To purchase one of the plants listed on the previous page and successfully nurture it during the summer. Get it to grow large!!

Questions:

How do I take care of my plant? Does it need to be fertilized? If so, how much? How do I transplant it into a larger container? Do these plants need lots of sunlight, water, fertilizer?

Answers:

Look them up! Do some research! Great reference: <http://www.houseplant411.com/>

Proof of completion

Purchase your plant at the beginning of the summer and take a picture with the dated receipt (yes, you should be in the photo). Each week you must then take a picture of the plant next to a ruler to show growth. In the photo include your Andrew ID or driver's license. Be sure the ruler and ID are in clear focus.

Create a folder in your google drive, title it Plant Project, and upload your photos weekly. You will share the folder with me at the beginning of the school year. Name the photos using the date the photo was taken. Please plan on bringing in your plant the first week of the new school year. **Also, make sure the plant has been replanted into a "real" pot, not the small plastic container you purchased it in.** (Your baby will need some room to grow) Bonus points if you decorate the pot to represent yourself :)

Have a twitter account? Take a picture of you and your new plant and tag me in your post: @SukaloTracy



Assignment #3

Some new words

The main reason students find it difficult to understand science is because of all the hard to write, spell and read words. Actually, scientific vocabulary is a mix of small words that are linked together to have different meanings. If you learn the meanings of the little words, you'll find scientific vocabulary much easier to understand. Find the mean to the following Greek/Latin root words.

Word	Meaning
a / an	
meso	
leuco	
aero	
anti	
amphi	
aqua / hydro	
arthro	
auto	
bi / di	
bio	
cephal	
chloro	
chromo	
cide	
cyto	
derm	
haplo	
ecto (exo)	
endo	
epi	
gastro	
genesis	
herba	
hetero	
homo	

ov	
kary	
neuro	
soma	
saccharo	
primi / archea	
phyll	
hemo	
hyper	
hypo	
intra	
-itis	
lateral	
-logy	
-lysis	
-meter	
mono	
morph	
micro	
macro	
multi / poly	
pod	
-phobia	
-philia	
proto	
photo	
pseudo	
synthesis	
sub	
troph	
therm	
tri	
zoo, zoa	

-tropism	
-taxis	
-stasis	
zyg / zygous	
phago	
path / pathy	
sym / syn	

Once you have completed the above table, use it to develop a definition, in your own words, for each of the following terms.

1. Hydrology _____
2. Cytolysis _____
3. Protozoa _____
4. Epidermis _____
5. Spermatogenesis _____
6. exoskeleton _____
7. Abiotic _____
8. Pathogen _____
9. pseudopod _____
10. Hemophilia _____
11. Endocytosis _____
12. herbicide _____
13. Anaerobic _____
14. Bilateral _____
15. autotroph _____
16. Monosaccharide _____
17. Arthropod _____
18. polymorphic _____
19. Hypothermia _____
20. Biogenesis _____