



## AP Biology Summer Assignment 2016-17

Dear AP Biology Students,

Welcome to AP Biology and thank you for embarking on this challenging and rewarding road with me! I am excited about working with you as you continue to broaden your scientific knowledge. You have chosen to begin an adventure that is both fascinating and enlightening. You are studying biology at a time of many scientific advances; perhaps more knowledge is being realized today in biology than in any other area of science. As you are all aware, Advanced Placement courses are quite rigorous and AP Biology is no exception. We will be completing a course that is equivalent to two semester college courses in addition to a lab course. At times, I will ask you to stretch yourself and the task at hand may seem overwhelming. However, be assured that I will not ask any more of you than I am also willing to give. Don't worry while the course is challenging, it is also rewarding!

Please do the following:

1. Check out an AP Biology textbook before the end of school.
2. Check your school email **regularly**.
  - a. You should already have an email from me instructing you how to log into Google Classroom. On Google Classroom you will see the link to my website, codes for Mastering Biology and Remind.com.
    - i. Join Google Classroom
    - ii. Get signed up to receive alerts through Remind.com
    - iii. Learn to navigate [mrskingsbioweb.com](http://mrskingsbioweb.com) and find the daily assignment page for AP Biology
    - iv. Set up your Mastering Biology Account [detailed instructions below]
3. Set up a folder in Google Drive, label the folder AP Bio [also use your first and last name]
  - a. Example: AP Biology Jones.Mary
  - b. Share this folder with me – [kbking@lenoircityschools.net](mailto:kbking@lenoircityschools.net)
  - c. Create Google Docs and place your summer assignment PowerPoint/video, modifying as often as you need until the first day of school. I will share information with you via Google docs throughout the summer. To create a folder, click folder instead of document. Do this ASAP
4. Register for access to [Mastering Biology](#) website

Student registration link → enter course ID: MBKING95696 click Next

and then enter the code SSNAST-QISHM-DAYAK-UHLAN-COLZA-MOOSE where prompted

PEARSON

Register for MasteringBiology in U.S. or Canada

Do you have a Course ID from your instructor?

If not, ask your instructor if he or she will be providing a Course ID.

Yes, I have a Course ID

Enter the Course ID (including hyphens) provided by your instructor:

MBKING95696 ✓

Sample Course ID: Lastname12345

No, my course doesn't require an ID

Next >

## SUMMER ASSIGNMENTS

### AP Biology Summer Assignment Scavenger Hunt

Find each item below in nature and take a “selfie” with each one of the items on the list. Each photo can only count for one item on the list. You will present your work to the class during the first week of school using a creative technological format [PowerPoint, Video, etc.] that includes your images along with the date the photo was taken, where the photo was taken, and a short description using the number and title below. Most smart phones will capture the date and place if you look in your photos under the “moments” tab. Remember, YOU need to be in the shot! No taking images off the internet as a shortcut! You may meet each other over the summer to complete the assignment in a creative way, but everyone will need to do their own presentation. This project should be saved in your *shared folder* that you created in Google Drive for AP Biology (see #3 above) and is due on the first day of school- no exceptions! Be creative and have fun 😊

- |                                      |                                   |                                 |
|--------------------------------------|-----------------------------------|---------------------------------|
| 1. Commensalism                      | 2. Reading a scientific journal   | 3. A primary consumer           |
| 4. An arachnid                       | 5. Batesian mimicry               | 6. A bird                       |
| 7. A non-flying insect               | 8. Mullerian mimicry              | 9. Growth rings in a tree trunk |
| 10. Mutualism                        | 11. A wind-dispersed seed         | 12. An amphibian                |
| 13. An annelid                       | 14. An animal dispersed seed      | 15. Something made of keratin   |
| 16. Evidence of decomposition        | 17. Biotic factor                 | 18. Something made of chitin    |
| 19. Compost                          | 20. Example of cryptic coloration | 21. Something made of cellulose |
| 22. Example of phototropism          | 23. A Cactus                      | 24. A large body of water       |
| 25. A community                      | 26. Parasitism                    | 27. Example of thigmotropism    |
| 28. Evidence of cellular respiration | 29. An abiotic factor             | 30. A sporophyte                |
| 31. An ecosystem                     | 32. An autotroph                  | 33. An arthropod                |
| 34. A fungus                         | 35. A primary consumer            | 36. Secondary succession        |
| 37. Moss                             | 38. Primary succession            | 39. A reptile                   |
| 40. A monocot leaf                   | 41. A pollinator                  | 42. An endotherm                |
| 43. A dicot leaf                     | 44. An angiosperm                 | 45. Phototropism                |
| 46. An animal track                  | 47. A gymnosperm                  | 48. Lichen                      |
| 49. A farm animal                    | 50. Spending time with friends    | 51. Spending time with family   |

### Scientific Method, Experimental Design and Hypothesis Testing *Lab grade*

Use at least 3 identical tomato plants and conduct an inquiry investigation. As you conduct your experiment, track your data using the scientific method. Record all your data in a document that you store in your shared folder. Start with a testable statement and end with a conclusion that supports your hypothesis. Also include a minimum of one data table and one properly constructed graph.

### FLASHCARDS

Make flash cards of the following AP terms found on exams and be familiar with their meaning:

Analyze	Describe	Model
Calculate	Design	Pose
Connect	Draw	Predict
Construct	Evaluate	Refine
Convert	Explain	Represent
Create	Justify	Solve

I look forward to seeing you in August! Mrs. King