

AP Biology Homework Guidelines:

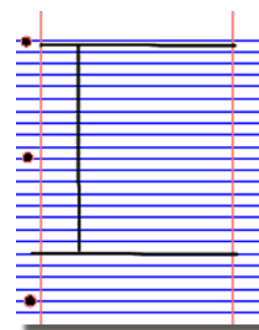
As you are preparing for college, it is important for you to understand the best way for you to obtain AND retain knowledge. It may not be the easiest method for you. It actually may be frustrating and annoying but it will be worth it in the long run.

In this class, I will introduce you to different ways of learning information. The method that works for you may not work the same way for another person. In the first unit we will try out each method so everyone has a chance to experience each one. After the first unit is complete, each individual student will choose the method that works best for them.

ALL Homework should be saved in a notebook that can be used later as a resource to study for the AP Biology Exam

Possible Homework Strategies and Descriptions:

1. Cornell Notes: Divide paper as shown in diagram to the right. Notes go in the top right box (Don't use complete sentences – diagrams and concept maps are welcome), key points go in the top left, a summary of information goes on the bottom (this should be done in complete sentences).



2. Guided Readings: Each student will answer a set of questions based on information from the textbook.

3. Concept Mapping: Each student will create a concept map about main themes of each chapter. Making connections and relationships from the information given.

4. Traditional Outlines: Each student will read the chapter and generate an outline based on information in the chapter

5. MasteringBiology.com: Each student will log on using their student accounts and answer questions regarding the chapter we are discussing in class.

For ALL Strategies: Please read each through the chapter once. Consider taking notes and drawing diagrams or concept maps. Think about what you have read and follow that up by answering the following questions completely, in detail and in your own words.

GRADING: Please note the due date for each assignment. You are to submit your work on the day it is due. You will receive zero credit for any late work (refer to syllabus for policies.) All work submitted must be your own. You may not collaborate with others on homework or use words that are not your own. If you need to quote the text, include the proper citations. If you choose not to follow the Academic Honor Code proper action will be taken.

Unit 1: Chemistry of Life:

Chapter 3 – Water and the Fitness of the Environment,

Cornell Notes:

Due: 8/27

Use Cornell Notes to identify the main properties of water.

Chapter 4 – Carbon and the Molecular Diversity of Life,

Guided Reading:

Due – 8/29

1. Define organic chemistry.
2. What are the major groups of organic compounds studied in Biology?
3. Describe some of the shapes of carbon Skeletons.
4. Define the following: Isomers, Geometric isomers, Enantiomers.
5. Why are enantiomers of biological interest?

Chapter 5 – The Structure and Function of Macromolecules (Carbs & Lipids)

Concept Mapping – Pages 68-77

Due – 9/3

- Take note of dehydration/condensation reactions, carbohydrates and lipids
- You may want to complete multiple concept maps

Chapter 5 – The Structure and Function of Macromolecules (Protein & Nucleic Acids)

Traditional Outlines – Pages 77-89

Due – 9/3

- use traditional outlines to gather information of proteins and nucleic acids.

***Please pay attention: Chapter 5 Part 1 and Part 2 are due on the same day!**

Quiz (Chapter 3-5): September 5th