

AP Biology “I LOVE SUMMER!!” Assignment
Teacher: Mrs. Oldendorf
Email: oldendorfe@apcsd.org
Class Website: www.msoldendorf.weebly.com

Congratulations on your decision to embark on the fun and exciting journey that is AP Biology here at Averill Park! The course is an intensive learning experience aimed at providing you with a basis for better understanding of the mechanisms and relationships that drive the world around you. It is assumed that you have had an introductory level biology course and have already taken chemistry. The summer assignment aims to provide a little background information on biology as a whole and introduce the themes we will be visiting and re-visiting throughout the year.

Summer Assignment: This is a 2 part assignment.
Both should be handed in on the first day of classes.

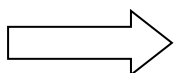
1. Complete the Reading Study Guide for Chapter One in the Campbell text. It follows the text very closely and will walk you through some of the basics this course will cover in detail. It will also review the basics from your introductory level biology course.

2. The second part of the assignment focuses on interactions and relationships between organisms. Your task is to visit the class website at www.msoldendorf.weebly.com and read the articles that are posted there. There are links to the articles so you can read them online. After you have read the articles, you must respond to them in a written, typed piece. The response should be a **single** response to all of the articles, not a separate response for each. It should be 1-2 pages long, and not be longer than two pages, typed. In your response, be sure to include the following:
 - a. A summary of ideas contained in the articles

 - b. A discussion of biological concepts that were discussed, or are related to, the articles
 - Examples of concepts:
 - a. Symbiosis
 - b. Evolution
 - c. Ecology
 - d. Genetics

 - c. Personal reaction/response to the article

In order to receive full credit, you must include all of these in (a. through c.) in your response.



Links to the articles can be found on the website.

“Tending the Body’s Microbial Garden”, by Carl Zimmer

“Study Sees Bigger Role for Placenta in Newborns’ Health”, by Denise Grady

“My No-Soap, No-Shampoo, Bacteria-Rich Hygiene Experiment”, by Julia Scott

“What Your Microbiome Wants for Dinner”, by Montgomery and Binkle

“Breastfeeding the Microbiome”, by Ed Yong

<http://www.newyorker.com/tech/elements/breast-feeding-the-microbiome>

Microbes Meet Cancer by Kate Yandell [http://www.the-](http://www.the-scientist.com/?articles.view/articleNo/45616/title/Microbes-Meet-Cancer/)

[scientist.com/?articles.view/articleNo/45616/title/Microbes-Meet-Cancer/](http://www.the-scientist.com/?articles.view/articleNo/45616/title/Microbes-Meet-Cancer/)

Mental Health May Depend on Creatures in the Gut

<https://www.scientificamerican.com/article/mental-health-may-depend-on-creatures-in-the-gut/>

Overview of The Human Microbiome Project

<https://www.bcm.edu/departments/molecular-virology-and-microbiology/research/the-human-microbiome-project>