

AP Environmental Science Summer Work

Howdy future AP Environmental Science students! APES is a college level science course that combines the disciplines of biology, chemistry, geology, and physics to investigate global environmental issues. We will discover how the Earth's systems function together and how humans have affected God's creation. We will also examine our personal consumption habits and learn ways to be responsible global citizens in the face of serious environmental issues. Because this is a college level course, you will be responsible for learning some of the material on your own. I will help you as you learn, but it will be your responsibility to take notes, study and learn your vocabulary! We will also operate on the assumption that you have a general understanding of biology, chemistry, and algebra. The purpose of this summer assignment is to introduce you to the APES content and inspire you with some examples of why this is an essential field of study.

General Guidelines

- Read the directions for each section carefully.
- Your answers for each section should be typed and fully completed.
- Each section should be clearly labeled and compiled on one document.
- All work should be completed on your own; you should not work with other students to complete your summer work.
- All work will be submitted on Teams and will be due on the first day of class.
 - Our APES team will (most likely) not be available until the end of August, so be sure to save your work in a place where it will be accessible to you later!

Section 1: Course at a Glance

Check out the [Course at a Glance](#) document. This document outlines the progression of topics within the nine units that we will cover throughout the year, as well as the approximate weight given to each unit on the AP exam. After you

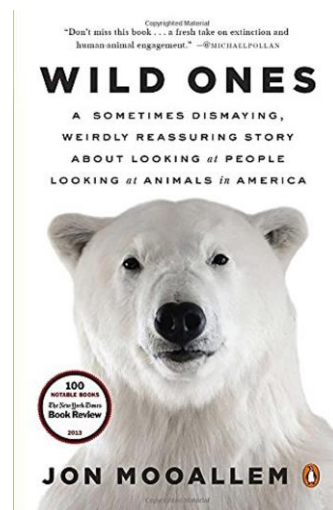
have previewed the [Course at a Glance](#) document, please answer the following questions:

1. Select one topic from each unit that you are the *most* excited to learn about.
2. Select one topic from each unit that you are the *least* excited to learn about.
3. Are there any topics where you already feel confident in your knowledgebase? Which one(s)?

Section 2: "Wild Ones"

Obtain and read a copy of the book "Wild Ones" by Jon Mooallem. This can be purchased online or borrowed from your local public library. After you have finished reading the book, answer the following questions:

1. Write a paragraph that explains (what you think) is the most important takeaway-message of the book. Explain your reasoning and use at least three pieces of textual evidence as support.
2. Identify 3 quotes in the book that stood out to you or made you have an "aha moment". Explain what the author meant by the quote/how you interpreted it.
3. Write at least three questions that you have after reading this book. Set up each question as follows:
"After reading about _____ (briefly summarize content),
I wondered why _____.



Section 3: Using Math in APES

Click [here](#) to access the math practice.

I am shamelessly recycling some math practice from an experienced APES teacher, so please disregard the instructions that you read at the beginning of their

document. You will not have a test on the second day of school. Please type your answers as you have for the previous sections. There are 21 questions.

Section 4: The Lorax

Watch the original animated rendition of "[The Lorax](#)."

After you have finished watching, write out a response that draws parallels between "The Lorax" and current environmental issues.

Be sure to touch on the following topics in your response:

- Climate change
- Sustainability
- Responsibility
- Activism

Your response should be at least 500 words.

Section 5: Environmental Science Current Event

In environmental science, it is important to know about current issues in the news. One of the goals of APES is to familiarize you with environmental issues that are important to our community, country, and world. Throughout the school year, we will be reading and discussing a variety of current events and relating them to course content.

Find one recent article related to environmental science. The article you choose should have been published within the last two years and taken from a reliable source. The article should relate to one of the following topics:

- Environmental law
- Ecosystems
- Climate
- Preserving biodiversity
- Water pollution
- Air pollution
- Population growth
- Cities and waste
- Geology
- Nonrenewable energy

- Renewable energy
- Food and agriculture
- Forest or rangeland

Include the following components in your article analysis, each designated with its own heading:

- Title of the article
- Summary
 - A brief summary that states what the article is about.
- Analysis
 - Points of view
 - Does the article have more than one side/point of view?
 - If so, what are they?
 - Bias
 - Is this article biased in any way?
 - In your opinion, does the author give a positive, negative, or neutral view of the topic?
 - Controversy
 - Is there any controversy surrounding this article? If so, explain.
 - Your perspective
 - State your perspective on this news article based on your personal knowledge of the topic and your reading of the article.
 - Effect on you
 - How does this topic relate to you or affect you?
- Link to the article