

## AP Environmental Science Summer Assignment

This summer, you will need to go outside and be in the environment (Part I). I highly recommend, putting the phone down and looking out the windows when in the car. I will be referencing the world around you FREQUENTLY.

You will also need to follow current events by reading articles and listening to pod casts about what is happening in Environmental Science. You will also become familiar with laws and agencies that work with or regulate the environment.

### Contact information:

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### ***1. Experience the Natural World:***

Visit a natural outdoor area, go for a walk, and make some observations. Please attempt to go beyond your backyard. **Here are some nearby places you could visit.**

- Tenaja Falls
- Keller Trail
- Sylvan Meadows Loop
- La Alba Trail
- Wiashal Trail Loop Cole
- Canyon
- Vernal Pool Trail and preserve.
- Rancho Los Alamos Loop
- Glen Arbor Park
- Willow Glen Park

### **A.** On your walk, please do the following:

1. Find a plant OR an animal that you have NEVER SEEN BEFORE "in the wild" and identify and research that plant or Animal
  - a. For either, please describe the location. Include whether it was sunny or shady, wet or dry, the outside temperature the day you are taking the photo, what other types of plants or animals you see in the vicinity, time of day, etc. (1 paragraph)
  - b. For either, do your best to identify the species. If you have any field guides at home, terrific! Start there. If not, try here: <http://www.backyardnature.net/i-ident.htm#b> If it's a plant and you're still not sure what you've got, take closeups of leaves, stem, and any flowers or fruit and/or bring a sample to the first day of class. Write down what you think it is and why.
  - c. For either, give a brief biography of your plant or animal. You should give important details such as diet, native habitat, number of offspring, time of migration or reproduction, ect.

## II. Environmental Laws, Terms and Agencies.

Understanding some of the basic environmental legislation and the duties of different agencies is an important part of the course. We will refer to this information throughout the year. This information can easily be found on the internet. Please be sure to phrase information in terms that you understand.

### **\*\*Environmental Legislation/Agreements\*\***

Provide the year the legislation was first ratified, and give a brief description of the important components

These Laws WILL appear on your AP exam.

Name	Abbr.	Year	Description
Clean Air Act	CAA		
Clean Water Act	CWA		
Comprehensive Environmental Response, Compensation Liability Act	CERCLA Superfund		
Convention on International Trade in Endangered Species	CITES		
Resource Conservation and Recovery Act	RCRA		
Endangered Species Act	ESA		
Kyoto Protocol	KP		
Montreal Protocol	MP		
Safe Drinking Water Act	SDWA		
Soil and Water Conservation Act	SWCA		
Solid Waste Disposal Act	SWDA		
Surface Mining Control and Reclamation Act	SMCRA		
Delaney Clause of Food, Drug, and Cosmetic act			

### III. Legislative Terms

Define these terms in your OWN WORDS as they relate to environmental legislation. Understand the difference between each term.

Conservation	
Preservation	
Restoration	
Remediation	
Mitigation	
Reclamation	

### IV. Regulatory Agencies

Provide the year the agency was instituted, and a brief description of responsibilities related to environmental quality

Agency	Abbr.	Year	Description
Dept. of Health and Human Services	DHHS		
Environmental Protection Agency	EPA		
Bureau of Land Management	BLM		
National Park Service	NPS		
Dept. of Agriculture	USDA		
National Oceanic and Atmospheric Organization	NOAA		
US Fish and Wildlife Service	USFWS		
US Geological Survey	USGS		
Dept. of Energy	DOE		
Council on Environmental Quality	CEQ		

<b>APES Summer Assignment Rubric</b>					
<i>(Minus 2 points from each section if not in complete sentences)</i>					
	<b>2</b>	<b>4</b>	<b>6</b>	<b>8</b>	<b>Comments</b>
<b>Section 1</b> <b>Accuracy:</b> Experience the Natural World	Plant/Animal photographed	Plant/Animal photographed and identified Missing part A or C	Plant/Animal photographed and identified Part A-C needs improvement	Plant/Animal photographed and identified Part A-C completed	
<b>Section 2, 3&amp;4</b> <b>Accuracy:</b> Laws	Student completed less than 10 terms accurately	Student completed only 10-19 Terms accurately	Student completed only 20-28 Terms accurately	Student completed 29 terms accurately	

**Score:**