

# 2019 AP Environmental Science Summer Assignments

Welcome to AP Environmental Science (APES)! I am so excited for next year, and I hope you are too! APES is designed to examine ecological, biological, chemical, physical and geological concepts and interactions... it is perhaps the most relevant course you will take in your high school career! The purpose of this summer assignment is to help you become aware of the environment and many of the ongoing concerns related to it and to inspire you so that you come ready to learn about all of the great topics we'll cover throughout the year!



These assignments are not meant to take a huge amount of time! They will not kill you and, provided you start early, should prove to be an enjoyable, immensely valuable experience. This leads me to a word on my philosophy for AP Environmental Science... If you're right for this course, you have the personal integrity to desire rigorous academics for the sake of self-development. There are other courses at WHS that will not challenge you in this way. I truly believe there is REAL VALUE in struggling to improve intellectually. If you are confused, lost, troubled, puzzled, perplexed, mystified, worried, bothered, bewildered or bamboozled in any way, contact me by email over the summer and I will try to help you find your way, but the point of these assignments is to get you thinking about some topics we will discuss this upcoming year.

Lastly, many students choose to complete their summer work in pairs or small groups. Throughout the year, we will become a team and I thoroughly encourage your comradery, however, each student must submit his or her own original work. If any student is caught copying, plagiarizing, or using work that is not their own without proper citation, consequences will ensue: the assignment will receive a score of 0, referral to the Dean, a letter sent home to parents, possible detention and/or Saturday School, and a "U" in citizenship for the duration of the semester. Please do not do this!

**PLEASE NOTE: THERE ARE DIFFERENT DUE DATES FOR THE DIFFERENT PARTS!** If for some reason you cannot submit a part of the assignment on the specific due date (ie. you're out of the country), you will need to complete it early. All assignments submitted after their specified due dates will be penalized with a 50% reduction in overall score. Thank you in advance for the time you put in and know that I'm picking the most important things for you to work on since I want you to have plenty of time to enjoy summer too!

*\*Just a quick note: In our effort to be environmentally conscious this year, I will be inviting you to hand in many assignments via ETUSD (unless I specifically advise otherwise). In addition, do your best to double side your work and use the smallest practical margins and fonts (anywhere from 10-12 pts). Let's start making a difference now!*  
- Ms. Hecht (Rivera)

## Part One:

### **PREPPING FOR SUCCESS IN APES:**

This assignment has two components: The first involves logging into ETUSD and completing a Google Survey. I assume if you are reading this document you were able to successfully log onto eTUSD 😊. Find the "Introduction Survey" on the

“Summer Assignments” tab and complete it by **JULY 31, 2019!**

The second component is obtaining materials to ensure success: *(these are recommended but NOT required)*

- Notebook (spiral or composition) or binder- **please buy sustainable or recycled if possible!**
- At least 1 package of pens and/or pencils for use during class/labs
- 1 package of graph paper
- Highlighters (at least 2 colors)

Also, I check my email pretty regularly, but the easiest and fastest way to get ahold of me is via the Remind app. I HIGHLY RECOMMEND that you sign up for the Remind app too. Use these instructions to sign up or click this [link](#).

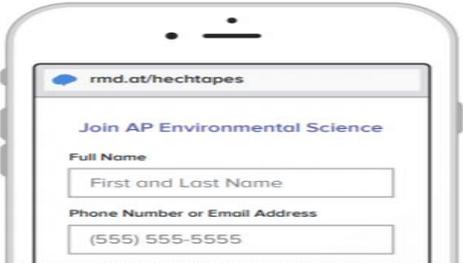
Pick a way to receive messages for AP Environmental Science:

**A** If you have a smartphone, get push notifications.

On your iPhone or Android phone, open your web browser and go to the following link:

[rmd.at/hechtapes](http://rmd.at/hechtapes)

Follow the instructions to sign up for Remind. You'll be prompted to download the mobile app.



**B** If you don't have a smartphone, get text notifications.

Text the message @hechtapes to the number 81010.

If you're having trouble with 81010, try texting @hechtapes to (808) 369-9580.

\* Standard text message rates apply.



**Part Two:**

**“Unintended Consequences” (10 points)**: This year, we will focus a lot of time talking about how the decisions made by humans have impacted our planet. In that endeavor, we quite often find that one action leads to another, which can have unintended consequences. In this assignment, you will explore the impact of the American diet on the Sumatran Elephant. You will watch a video clip using the program Edpuzzle (this will be used a lot this upcoming year), so you will need to create an account. PLEASE USE YOUR ETUSD EMAIL TO DO THIS! Watch the video and answer the questions as they pop up. You will need to complete this activity by **Friday, August 9, 2019.**

**Part Three:**

**Environmental Science in the Real World (10 points)**: One of the biggest changes to the Environmental Science test is a focus on experimental design, analyzing environmental problems, and proposing solutions. To prepare you for this shift, read the scientific journal article linked [here](#) and complete the [accompanying document](#). You will not be able to edit the original so please make a copy by doing the following: Click “File” and then “Make a copy”. It will now be in your Drive

	and you can edit it. <b>This assignment must be submitted on ETUSD by Monday, August 19, 2019.</b>
<b>Part Four:</b>	<b>Summer Math Review (15 points):</b> FOR THE FIRST TIME EVER, YOU WILL BE ALLOWED TO USE A CALCULATOR ON THE AP EXAM! BUT... you still need to be able to do the math required for this course. By reviewing the math skills needed for APES, you will be well on your way to a successful year. <b>This assignment should be printed out (just the answer document with work shown) and turned in on the first day of school - Monday, August 26, 2019.</b>
<b>Part Five:</b>	<b>APES Summer Challenge (20 points):</b> As you prepare to take AP Environmental Science next year, it is important to understand that your actions and choices everyday have a great effect on our environment. This summer, I challenge you to complete <b>ONE</b> of the below as possible, write a short essay of what you did and how it made you feel. You should keep electronics to a minimum during these experiences- consider leaving your phone at home and taking a good old fashioned camera with you, and don't listen to music but rather the sounds of nature. You can use experiences while on vacation, or close to home. Feel free to meet up with others in the class to do an experience together (but you each need to document the experience separately). <b><u>This assignment needs to be submitted online by 11:59pm on the first day of school - Monday, August 26, 2019.</u></b> <ul style="list-style-type: none"><li>→ Go camping - spend at least 1 night sleeping outside in a tent (or if it is nice no tent!). This can even be in your own backyard. Cabins/cottages do not count for this activity. If possible, build a campfire and try cooking a meal over it!</li><li>→ Go for a hike! Explore an area of woods or wetlands while focusing on nature. Look high and low, stop to listen to the sounds, and occasionally stand perfectly still to see if you observe anything that you might miss otherwise. Should have photo evidence of at least 4 unique, natural items found.</li><li>→ Visit a farmer's market and find a food you've never tried before. Find out where the farmers are from and how far they've traveled to bring their food to the market. Compare the prices at the market with prices in your grocery store. Are there foods offered at the market that are not offered in the store? What other goods besides fruits and vegetables are available? Torrance Farmers Market is held every Tuesday and Saturday morning at Wilson Park on Crenshaw Blvd.</li><li>→ Composting - Start your own compost pile! It can be an open pile, a small bin, or vermicomposting. Document how much waste your family is able to reduce, and how the compost breaks down over time.</li><li>→ Environmental volunteer experience - Many parks and community organizations welcome volunteers to assist with trail maintenance, litter removal, etc. You could try the Madrona Marsh, <a href="#">TreePeople</a>, or another local organization!</li></ul>

