A globe with a tree growing on it, symbolizing environmental science. The globe is cut open to show the interior layers of soil and rocks. A white ribbon is wrapped around the globe. The background is a blurred forest scene.

AP Environmental Science

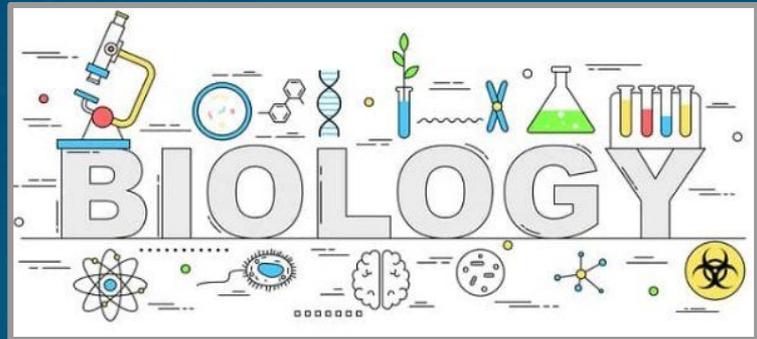
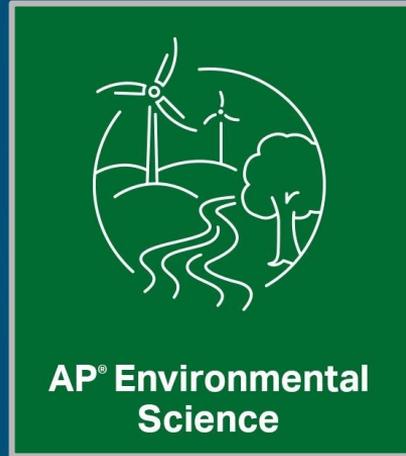
Miss Syiem



AP Environmental Science

Miss Syiem

- Teaching science for 14+ years
- Currently teaching Biology & AP Environmental Science

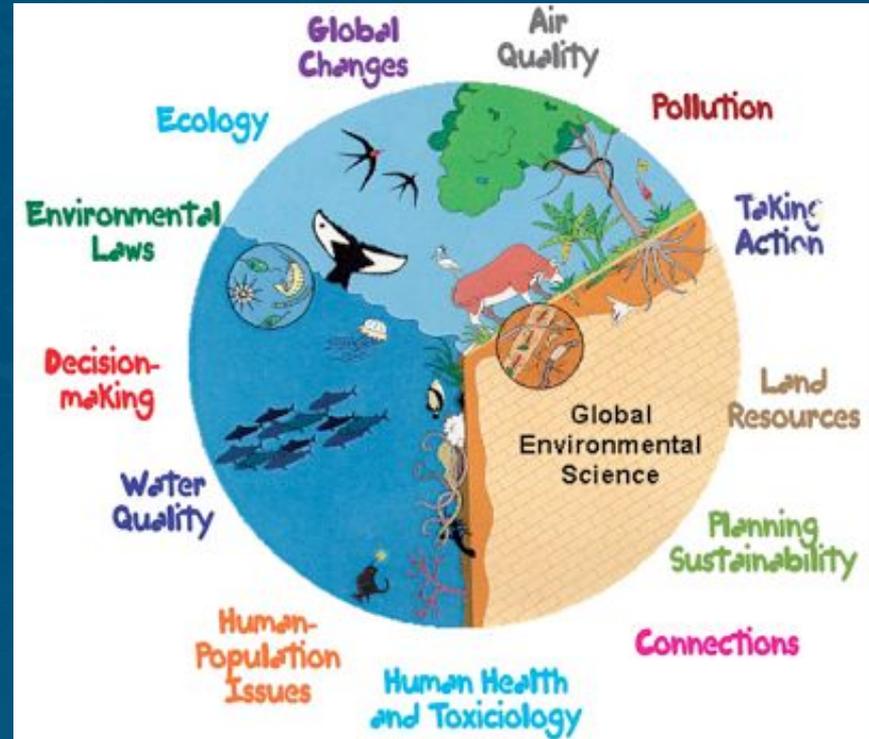




AP Environmental Science

Content

- Topics: ecosystems, pollution (water, air, land), human and animal populations, energy, land use, soil





Fall

Course Outline

Fall Semester

Unit	Topic	Module Notes/Videos	Labs/Activities	Length
0	Introduction to APES		Happy Fishing Lab (Tragedy of the Commons) Feedback Loops Stations Climate Change & Cities Design Lab	2.5 wks
1	The Living World – Ecosystems	1-2, 6, 7, 12, 13, 20	Owl Pellet Dissection Climatograms Activity Nitrogen Cycle Journey	3.5 wks
2	The Living World – Biodiversity	1-2, 8, 14-15, 17-19, 21, 29, 59, 65	Island Biogeography Lab Ecocolumns Lab Primary Productivity ESRI	3 wks
3	Populations	17-19, 22, 23, 31	Bubble Lab Cemetery Lab Demographic Transition Jigsaw	3 wks
7 & 9	Atmospheric Pollution	30, 35, 46-48, 49-50, 62-64	Airborne Particulates Lab Tropospheric Ozone Lab Radon Case Study	3 wks
8A	Aquatic & Terrestrial Pollution	41-44, 57, 60, 41, 44, 57	Oil Spill Lab Biomagnification Lab	2.5 wks



Spring

Spring Semester

Unit	Topic	Modules	Labs/Activities	Length
8B	Aquatic & Terrestrial Pollution	41, 46-47, 51-58, 64	Toxins LD-50 Lab Water Quality Lab	2.5 wks
5	Land and Water Use	2, 23, 25-26, 29-30, 32-33, 37, 60, 65, 66	Salinization Lab ESRI Megacities Cookie Mining Lab Mining Google Earth Build a Sustainable Farm Google Earth Land Use Survey	4 wks
4	Earth Systems & Resources	8-11, 24-25, 33	Soil in a Jar Lab El Nino Stations Demonstration Coriolis Effect Activity	2.5 wks
6	Energy Resources & Consumption	27, 34-40	Killawatt Lab Energy Speed Dating	3.5 wks
Review				After spring break
	AP Class Final	Cumulative		Late April



AP Environmental Science

Recommended Prerequisites

- Two years of high school laboratory science, including life science and physical science,
- At least one year of algebra
- Chemistry can be taken concurrently

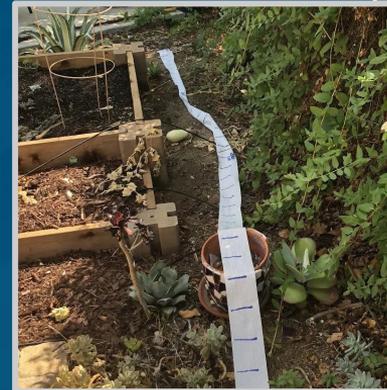
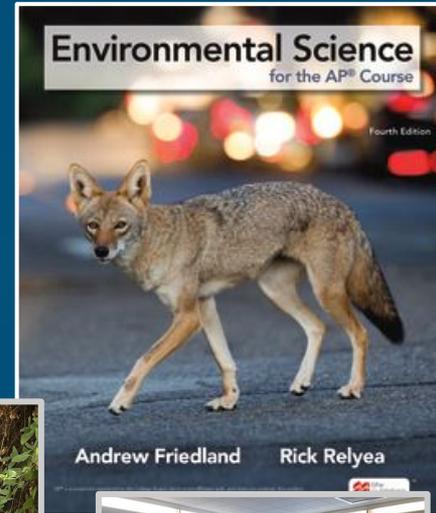




AP Environmental Science

Class Structure

- Packet: lecture notes, news articles & videos
- Reading videos
- 25% labs - virtual and hands-on
- Collaborative group work
- AP Final (end of April)
- AP Exam (early May)
- No summer homework :)





AP Environmental Science

AP Exam

~3 hrs total

Section	Question Type	Number of Questions	Exam Weighting	Timing
I	Multiple-choice questions	80	60%	90 minutes
II	Free-response questions	3	40%	70 minutes
	Question 1: Design an investigation (10 points)			
	Question 2: Analyze an environmental problem and propose a solution (10 points)			
	Question 3: Analyze an environmental problem and propose a solution doing calculations (10 points)			



AP Environmental Science

Expectations

- AP coursework is intense – high level thinking and **analyzing** the information
- Recommend 3 hrs **independent studying** each week
- Time management is crucial



AP Environmental Science

National Pass Rate 2024
= 54.3%

Exam	5	4	3	2	1	3+
AP Biology	16.8%	23.1%	28.4%	21.7%	10.0%	68.3%
AP Chemistry	17.9%	27.4%	30.3%	16.9%	7.5%	75.6%
AP Environmental Science	9.2%	27.5%	17.4%	25.8%	20.1%	54.1%
AP Physics 1	10.2%	17.9%	19.2%	26.1%	26.6%	47.3%
AP Physics 2	19.1%	18.0%	33.4%	22.9%	6.6%	70.5%
AP Physics C: Electricity and Magnetism	35.2%	21.6%	14.8%	17.4%	11%	71.6%
AP Physics C: Mechanics	28.5%	26.8%	20.9%	13.2%	10.5%	76.3%



Past words of Wisdom

I didn't realize everything together and how helpful it was. Like during the exam frq, I remember doing a similar question on our class test frq and it helped a lot. The practice exams were extremely helpful as I got a scope of what I actually needed to focus on. Everything you did had a hidden purpose and I wish I tried harder doing them more meaningfully.

Make sure you do the packets, kahoots, and edpuzzles as much as you can because even some of the information will help you later on, especially on the AP test.

Definitely use the packets that Ms. Syiem provides. Also take the reading notes as they often show up as answers on a test.

PAY ATTENTION AND ACTUALLY

TRY TO LEARN IN CLASS I SWEAR

IT WORKS

We did a lot of hands on labs and projects which helped me learn the

material better because it was laid in front of me.

I think that Mrs. Syiem really prepared for for the AP Exam, thank you!!! :D

To prepare for the AP Environmental class pay attention in class! And review the Edpuzzles!

Stay organized, you will get a lot of papers that you need to keep.

Make sure to turn in all of your work on time.



AP Environmental Science

Communication

- Sign up for Remind.com
- EdPuzzle videos
- Use Google Classroom for content and curriculum
- Email: esibon_syiem@chino.k12.ca.us



AP Environmental Science

Questions?

Email me or stop by Rm 237!

