

2019-2020 AP Environmental Science Summer Assignment

Welcome to AP Environmental Science! I'm looking forward to working with you next year. In order to cover all the material for APES before the AP exam next May and to set the tone for the class you will need to complete some work during the summer. The summer assignment will count as approximately 100 pts on your first quarter grade. The summer assignment will have **three parts**: article reviews, documentary review, and environmental law and policy review.

In addition to this assignment you will need to purchase an AP Environmental Study Guide. The companion study guide to your book, STRIVE for a 5 Preparing for the AP Environmental Science Examination by Courtney Mayer, is a good one, but it is not the only choice. Please choose one that you think you will find the most beneficial. Bring this with you the first day of class.

Contact: jdrum@stpaulsmobile.net

Grade Value: ~100 pts.

Due Date: August 19, 2019

Part I:

Select and review two articles drawn from the following topics, making sure that you address at least two different topics from the list:

1. Human population growth
2. Transgenic species
3. Non-native (invasive) species
4. Food production, food safety
5. Fossil fuels (coal, oil, natural gas)
6. Renewable resources (solar, wind, geothermal, hydroelectric)
7. Nuclear energy
8. Air quality
9. Water quality (surface or groundwater)
10. CO₂ and global warming
11. Recycling, waste management
12. Endangered species
13. Deforestation
14. Ozone depletion
15. International treaties dealing with environmental issues (Kyoto Accord)

Articles should come from sources such as the following:

New York Times (On Tuesdays there is a special science section), Washington Post (On Mondays there is a special science section), news magazines (ex. Newsweek), science magazines (Discover, Scientific American, Nature, Science, Smithsonian, National Geographic). Each article must be at least 4 – 5 paragraphs in length and be no more than 1 year old (2015).

Each article review will be typed in 12 point font, using Times Roman and double-spaced. The format is as follows:

Article Title:

Date:

Source:

Summary: In 250-500 words, address the following questions:

-What are the key points made in the article?

-What are the points of view presented about this issue?

-Does the article teach you something new?

-Does it support or refute other information you have heard or read? Explain.

A copy of the article must be attached to the review. Please be very careful to use your own words.

Part II: Environmental Science documentary film review

View an environmental science documentary over the summer. Use Netflix, the County Library system, television, or any other means. You do not have to purchase these films. Many can be found online. Use PBS, National Geographic, www.topdocumentaryfilm.com, etc. Write a single-page film review of this documentary (single-spaced). Be prepared to discuss this documentary on the first day of school. You can choose from the following documentary films, but a limited number of students can watch each one. Please let me know which one you plan to watch by June 5, 2017. Email me your first, second and third choice and I will email you back which one you were assigned.

A Plastic Ocean (2016) 100 min

In Defense of Food (2015) 115 min

Cowspiracy (2014) 90 min

Mission Blue (2014) 94 min

Chasing Coral (2017) 89 min

Naledi: A Baby Elephant's Tale (2016) 90 min

The Ivory Game (2016) 112 min

Encounters at the End of the World (2006) 100 min

Rats (2016) 88 min

Blue Planet II (2017) episode 3 and 7 (50 min and 52 min)

Rotten (2018) episode 1 and 2 (54 min and 48 min)

Part III:

Fill in a chart similar to the one below for each of the following pieces of legislation or treaties. There will be a quiz on these laws the second week of school.

Name	Function of Legislation or Treaty	Unit
Clean Air Act	Established primary and secondary air quality standards. Required states to develop implementation plans. Sets limits and goals to reduce mobile source air pollution and ambient air quality standards.	Air

Clean Air Act	Food, Drug, and Cosmetics Acts	Occupational Safety and Health Act
Clean Water Acts	Hardrock Mining and Reclamation	Ocean Dumping Ban Act
Comprehensive Environmental Response, Compensation Liability Act	Kyoto Protocol	Oil Pollution Act
Consumer Product Safety Act	Law of the Sea Convention	Oil Spill Prevention and Liability Act
Convention on International Trade in Endangered Species	Marine Mammal Protection Act	Pollution Prevention Act
Emergency Planning & Community Right-To-Know Act	Marine Plastic Pollution Research and Control Act	Resource Conservation and Recovery Act
Endangered Species Act	Migratory Bird Hunting Stamp Act	Safe Drinking Water Act
Energy Policy Act	Montreal Protocol	Soil and Water Conservation Act
Federal Food, Drug, and Cosmetic Act	National Energy Act	Solid Waste Disposal Act
Federal Insecticide, Fungicide and Rodenticide Act	National Environmental Policy Act	Surface Mining Control and Reclamation Act
Federal Water Pollution Control Act	National Park Act	Toxic Substances Control Act
Fish and Wildlife Conservation Act	National Wildlife Refuge System Act	Wild and Scenic Rivers Act
Food Quality Protection Act	Nuclear Waste Policy Act	Wilderness Act

Turning in Assignments:

Written documents will be turned into turnitin.com on the due date. I will give you the class id and password on the first day of school. Part III can be written on notecards, paper or done in a word document and will not be turned into turnitin.com.