

Summer Assignment:

Welcome to Advanced Placement Environmental Science (APES)!

In order to prepare you for this course, the following summer assignments highlight many of the topics we will be discussing throughout the year. APES is a course that encompasses many different areas of study, some of which include biology, chemistry, economics, government, and earth science.

ALL WORK SHOULD BE TURNED IN ON PAPER. You may type it, but it must be printed to physically hand in on the first day of class. I know this is ironic since this is an Environmental Science class, but we will be using digital notebooks during the school year! You can print two pages per sheet and front and back to reduce paper usage.



Assignment #1: Current Events

You must find 10 current event articles published during 2018 that relate to one of the environmental issues listed below. These articles should highlight actual issues, not just discuss general findings. For each article, you will write two paragraphs, the first paragraph should summarize the article and the second paragraph should discuss your personal thoughts and/or reactions relating to the issue. For example, does the article teach you something new? Does it support or refute other information you've heard or read? Are there other points of view on this issue?

Your sources should come from scientific publications (scholarly articles such as those found using Google Scholar or from journals like Nature, Science, etc), popular magazines (National Geographic Magazine, Discover Magazine, etc), or newspapers (National newspapers such as the NY Times or local newspapers like The Commercial Appeal). You must attach a printed copy of the article, if from an internet source, or the actual article, if from a paper source, along with your response. You should include a heading at the top the page notating the number and topic from the list below.

The 10 articles MUST be drawn from the topic list below, making sure that at least 10 different topics are represented.

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| 1.) Human population growth | 9.) Legislation or International Treaty dealing with an environmental issue |
| 2.) Transgenic species | 10.) Renewable resources (solar, wind, geothermal, hydroelectric, etc.) |
| 3.) Air quality | 11.) Nature Conservancy, Sierra Club, World Wildlife Fund, or similar NGO |
| 4.) Food production, food safety | 12.) CO ₂ and global warming |
| 5.) Fossil fuels (coal, oil, natural gas) | 13.) Overfishing, overhunting |
| 6.) Nuclear energy | 14.) Recycling or another aspect of waste management (garbage) |
| 7.) Non-native (invasive) species | 15.) Deforestation |
| 8.) Ozone depletion | 16.) Water quality (surface or groundwater) |

Assignment #2: Threatened/Endangered Species

Select a threatened or endangered species and write at minimum a two page paper detailing the following information:

- A. the species' scientific name
- B. a picture, photo or drawing of the organism
- C. its complete taxonomic classification (Kingdom, Phylum, Class, Order, Family, etc.)
- D. a description of the organism (physical and behavioral)
- E. its habitat and niche
- F. reasons for its decline
- G. efforts to save it
- H. its current status
- I. predictions for its future
- J. list of references (more than one, and do not rely on Wikipedia or other anonymous sources)



Summer Assignments are due on August 13th
and count for a quiz grade (current events)
and a test grade (paper)!

If you have any questions over the summer, do not hesitate to contact me. I hope you have a great summer and I look forward to having you in APES!

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