

Hayfield Secondary AP Summer Assignment Cover Sheet

Hayfield Secondary

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Course	
Teacher Names & Email Addresses	Kristen Dvorak kmdvorak@fcps.edu
Assignment Title	AP Environmental Science Summer Assignment
Date Assigned	June 2019
Date Due	9/5 and 9/6
Objective/Purpose of Assignment	To experience the outdoors and learn about current events relating to the environment.
Description of how Assignment will be Assessed	See rubric on last page
Grade Value of Assignment	80 points in <u>Projects/Quizzes/Labs/Classwork</u> grading category
Tools/Resources Needed to Complete Assignment	Computer for typing the assignment, Internet access or library for locating current event articles, Access to a park/outdoor area for field experience.
Estimated Time Needed to Complete Assignment	8 hours

Advanced Placement Environmental Science

Instructor: Kristen Dvorak

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Summer Assignment

The summer assignment will have two parts: article reviews and outdoor activity & reflection.

Part I: Having a basic understanding of several major environmental issues will provide you with a good foundation for AP Environmental Science (APES). During the summer break, I would like for you to select and review **four current event articles** drawn from the following topics, making sure that you address at least four **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 climate change
11. Recycling, waste management
12. Endangered species
13. Deforestation
14. Ozone depletion
15. International relations surrounding environmental issues (Kyoto Accord)

Articles must be at least 5 paragraphs long and should come from credible sources such as the following: New York Times (On Tuesdays there is a special science section), Washington Post (On Tuesdays there is also a special science section), news magazines (ex. Newsweek), science magazines (Discover, Scientific American, Nature, Science, Smithsonian, National Geographic). **Each article must be no more than 1 year old - we're going for CURRENT events, not historical.**

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

Article Title:

Date of Publication:

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 or a link to it must be attached to the review. **Please be very careful to use your own words.**

Part II: Having an appreciation for the outdoors will help you understand the importance of this course. I would like you to spend **at least 2 hours** camping, hiking, canoeing/kayaking, visiting a state or national park, or volunteering for an environmental group (here's a great link with resources and additional links about environmental programs and volunteering in Northern Virginia: <http://www.cleanfairfax.org/volunteer-opportunities/>).

You must provide documentation of your visit (i.e., a **photo of you taken during the activity, or a signed letter from a supervisor on-site with his or her phone number**) and write a **two-page reflection** (12 point font, double spaced) of your visit, including any observations of wildlife, environmental problems (pollution, eutrophication, invasive species, etc.), and how you enjoyed the activity.

Tips: wear sunscreen, bug spray, and bring water and a cell phone. You may go in a group of students, but each person must write their own reflection. Don't hike alone; make sure an adult knows where you are. If you travel in the early morning or late afternoon, you are more likely to see wildlife.

Here are some ideas of places to visit:

- Huntley Meadows
- Great Falls Park
- Shenandoah Park
- Rock Creek Park
- Roosevelt Island
- Burke Lake Park
- Mason Neck Park
- Patuxent Research Refuge
- Lake Accotink Park

Grading Rubric

Article #	Article Selection	Article Review (7 points)
	-at least 5 paragraphs (1 point) -no more than one year old (1 point) -copy attached to summary (1 point)	-What are key points? -What point of view is presented? -Does the article teach you something? -Does it support or refute other information you have heard or read?
1		
2		
3		
4		

Outdoor activity	Reflection (40 points)
	-Description of the site and activity. -What observations did you make? -What new information did you learn? -Discuss what you specifically like about the activity. -Correct length and format.

Points will be deducted for grammatical and spelling mistakes - please use spell check!

Summer Assignment Grade: /80

Contact Information and Expectations

This assignment will be due at the end of the second week of school and will be worth 80 points in the Projects/Quizzes/Labs/Classwork category in the gradebook. Your reviews and reflection should be submitted on Google Classroom.

If you have questions about any part of this project, you should contact me via email. Please do not wait until the week before school begins, as I will be extremely busy during that week preparing for your first day. If you don't hear back from me for a few days, please be patient, as I may be traveling. My email address is kmdvorak@fcps.edu

Remember that this assignment will be my first impression of you, so you should do your best work. **This is an individual assignment, and I expect that the work you submit is your own and that it was not done with any form of outside assistance, be that the Internet (except for locating articles and additional research), your parents, or your friends.** I'm looking forward to meeting all of you and working with you to prepare for the AP exam. See you in August!