

Hayfield Secondary AP Summer Assignment Cover Sheet

Hayfield Secondary

7630 Telegraph Road, Alexandria, VA 22315 • Phone: (703) 924-7400 • FAX (703) 924-7497

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| Course | |
| Teacher Names & Email Addresses | Kristen Berberich kberberich@fcps.edu |
| Assignment Title | AP Environmental Science Summer Assignment |
| Date Assigned | June 2018 |
| Date Due | 9/6 and 9/7 |
| 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 | 10% of first quarter grade |
| 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 Berberich
kberberich@fcps.edu

Summer Assignment, 2018

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 **six articles** drawn from the following topics, making sure that you address at least **six 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 treaties dealing with environmental issues (Kyoto Accord)

Articles must be at least 5 paragraphs long and should come from 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 (2014).

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 (or a link to it if submitted on Google Classroom) 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 **2 hours** (or more) camping, hiking, canoeing/kayaking,

visiting a state or national park, volunteering for an environmental group or learning center. 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). Write a two-page reflection (12 point font, double spaced) of your visit, including any observations of wildlife, environmental problems (pollution, etc.), and how you enjoyed the activity. If you are interested in art, by all means, include a sketch or photographs.

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, and 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 -at least 5 paragraphs (1 point) -no more than one year old (1 point) -copy attached to summary (1 point) | Article Review (7 points) -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? |
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| 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. |
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Points will be deducted for grammatical and spelling mistakes - please use spell check!

Summer Assignment Grade: /100

Contact Information and Expectations

This assignment will be due at the end of the second week of school and will be 10% of your first quarter grade. Your reviews should be submitted in a folder or notebook with a cover page with your name.

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 kamberberich@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 2019 exam. See you in August!