IB Environmental Systems & Societies - Summer Assignment (19-20)

Due Date: Second week of school

Contact: Rachel Packer/Clausen (RLClausen@fcps.edu)

Directions: See Lee HS summer assignment site for digital copy or Mrs. Clausen for hardcopy

A. Environmental Photo with Caption of You

- One a single piece of paper attach or print a picture of you in nature!
  - This picture can be of you recently or from when you were younger, see ones of me below
- Create a short caption under the photo (typed or neatly handwritten):
  - Write what you are doing in the photo and why you picked that photo. (1-2 sentences)
  - Lastly write in this caption why you wanted to take an environmental course. What do you hope to do and learn during our environmental course? Why? (2-4 sentences)

B. Environmental Issue Research and Write Up:

Directions:

1. You MUST do the reading(s) for environmental issue listed based on the start of your last name
2. Optional Links are optional ☺ but recommended!
3. Follow “Write Up” requirements on next page (see rubric)

Environmental issues: #1

Terrestrial Biodiversity - Invasive (Last name begins with A-E)

- Required: “An enemy in our midst, MD tries to fight invasive plant species” 7/29/16

#2 Water Quality and Pollution - (Last name begins with F-M)

- Required: “Large ‘dead zones’ signal more problems for the Chesapeake Bay” 8/31/14
  https://www.washingtonpost.com/national/health-science/large-dead-zone-signals-continued-problems-for-the-chesapeake-bay/2014/08/31/1e0c2024-2fe2-11e4-9b98-848790384093_story.html?utm_term=.98c3c5366281
- Optional: https://www.washingtonpost.com/opinions/the-trump-administrations-attack-on-the-chesapeake-bay/2017/03/21/d7b5f6ec-0db6-11e7-ab07-07d9f521f6b5_story.html?utm_term=.81c0bd766e47 and

#3 Soil Erosion, and Conservation - (Last name begins with N-Z)

- Required: “Lake Accotink No More” 5/20/16 http://www.fairfaxtimes.com/articles/fairfax_county/lake-accotink-in-danger-of-becoming-no-more/article_0c397da4-1ece-11e6-9ec1-431c56f74e00.html
- Optional: http://www.accotink.org/Stormwater.htm
Directions for Article Write Up (typed or neatly handwritten)

- **Describe the environmental issue**: (~1 small paragraph)
  - Summarize the issue in your own words
  - Describe 3 potential consequences of this issue that are currently happening or may occur in the future. Consequences can be environmental, cultural/socio-political, or economic.

- **Justify and evaluate how to manage or solve the environmental issue** (~1 small paragraph)
  - Stating a solution:  Ex. “Not fertilizing before it rains will add less nutrients into the streams” and
  - Suggest some reasons why your solution might work. Ex. “Don’t add fertilizer before it rains is easy because it doesn’t cost extra money for homeowners.”
  - Evaluate the solution means why some people not want to do your management solution.
    Consider that it might be too expensive. Ex. “Not adding extra fertilizer before it rains may be difficult because people are forgetful or may not check the weather. People may not know how much fertilizer impacts rivers and streams.”

**Grading Rubrics** - Both Assignments are due the second week of school

**PART A: Environmental Photo and Caption of You**

<table>
<thead>
<tr>
<th>Project Component</th>
<th>Complete</th>
<th>Partial</th>
<th>Not at all</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photo of Student in Nature</td>
<td>2</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Description of the Photo</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(2x)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Caption: Why Take Environmental? (2x)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(2x)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**PART B: Environmental Issue and Write Up:**

<table>
<thead>
<tr>
<th>Project Component</th>
<th>Complete</th>
<th>Partial</th>
<th>Not at all</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summarize Environmental issue (2x)</td>
<td>4</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Justify and Evaluate a Solution (2x)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grammar, attached articles, and Citation</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

If you have any questions, please email me (RLClausen@fcps.edu)