

## Environmental Science: Water, Carbon and Nitrogen Cycles

*You will be placed in groups of four or five students. You will have one week to complete the following parts. You may divide the work up any way that you would like, but be aware that your fellow group members will be grading you on your participation in this project. Presentations will occur on **September 18 and 19, 2008**. Groups will be assigned randomly as will the cycle and the presentation date. Presentations should last approximately twenty to twenty-five minutes.*

1. **Visual Presentation** – there should be some sort of visual guide of the assigned cycle to help the audience visual the process. This part of the presentation should be creative and may be a simple poster or may be more complex such as a play.

2. **Media Source** – this section requires some sort of media such as a video, movie clip or piece of music. The media source should be credible and must be correctly cited. A brief synopsis of the media source along with a citation should be handed in on the day of the presentation. During the presentation period, the media will be played and a group member must explain the significance of the media and how it relates to the assigned cycle. You **MUST** tell me ahead of time which type of media you are preparing for the class, so that I may have the technology available for you to use. Keep media sources credible, relevant and appropriate.

3. **Scientific Paper** – there is so much scientific research being conducted on the above cycles. Find a current one (i.e. in the last ten years) and explain the findings and significance to the class. On the day of the presentation, hand in a written abstract with the correct citation as well as a copy of the scientific paper.

4. **Paper** – write a four page paper (double-spaced) on the assigned cycle. You must answer the following questions in your paper:

- a. What is your cycle? Describe in detail including all processes.
- b. What does your cycle accomplish? What is its purpose on Earth?
- c. Why is it important environmentally?
- d. What could possibly happen should the cycle fail?

Your paper should have appropriate citations and a works cited. It should be written as a continuously flowing paper rather than simply answers to questions. Your paper should have one inch margins, double-spaced with Times New Roman font, size 12.

***ALL** members of the group must present some information regarding the assigned cycle. Your audience will be grading your presentation. These cycles will be on the test so make sure that you present your facts clearly and accurately. You may provide your audience with pre-made notes or outlines that coincide with your presentation. All aspects of this presentation are due on the day of the presentation. Your grade will be determine by your overall presentation, each component, the audience's reaction and your participation within the group as determined by your group members.*

Group Member Grading Sheet

1. \_\_\_\_\_

Job(s) completed: \_\_\_\_\_

This person deserves \_\_\_\_\_ points deducted from their grade.

Explanation: \_\_\_\_\_

\_\_\_\_\_

2. \_\_\_\_\_

Job(s) completed: \_\_\_\_\_

This person deserves \_\_\_\_\_ points deducted from their grade.

Explanation: \_\_\_\_\_

\_\_\_\_\_

3. \_\_\_\_\_

Job(s) completed: \_\_\_\_\_

This person deserves \_\_\_\_\_ points deducted from their grade.

Explanation: \_\_\_\_\_

\_\_\_\_\_

4. \_\_\_\_\_

Job(s) completed: \_\_\_\_\_

This person deserves \_\_\_\_\_ points deducted from their grade.

Explanation: \_\_\_\_\_

\_\_\_\_\_

## Audience Grading Sheet

Cycle: \_\_\_\_\_

- Members:    1.  
                  2.  
                  3.  
                  4.  
                  5.

Answer the following questions based on your interpretation of the presentation. One is the lowest score and ten is the highest.

**Did everyone talk?**

1    2    3    4    5    6    7    8    9    10

**Was the presentation clear?**

1    2    3    4    5    6    7    8    9    10

**Was the media source interesting and entertaining?**

1    2    3    4    5    6    7    8    9    10

**What the visual guide easy to understand and visually appealing?**

1    2    3    4    5    6    7    8    9    10

**What the explanation of the scientific paper understandable?**

1    2    3    4    5    6    7    8    9    10

**Were the possibly failures of the cycle explained?**

1    2    3    4    5    6    7    8    9    10

**Did you walk away with a clear understanding of the cycle?**

1    2    3    4    5    6    7    8    9    10

**Overall presentation?**

1    2    3    4    5    6    7    8    9    10