

## APES Biogeochemical Cycles Project – 40 points

**Assigned:** \_\_\_\_\_

**Due date:** \_\_\_\_\_

Each group will be assigned a cycle to illustrate in some meaningful way.

This will be done by a random drawing.

The following cycles will be assigned:

1. **Carbon**
  2. **Nitrogen**
  3. **Phosphorus**
  4. **Sulfur**
  5. **Water**
  6. In addition, one group will illustrate the **10% rule**.
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Each group will choose one method of presentation:

1. Video enactment
2. Game: board game, card game, etc.
3. Dance
4. Skit
5. Song
6. Poem
7. Interview with the atoms, molecules, and/or ions involved
8. 3-D work of art - sculpture, mobile, etc.
9. Interactive web site
10. PowerPoint presentation
11. Other (subject to approval)

Once a group signs up for a method of presentation, it cannot be changed.

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For each cycle, the presentation must include:

1. chemical reactions involved
  2. inorganic and organic reservoirs for the element
  3. pathway of movement
  4. impact of human intervention on the cycle
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### IMPORTANT NOTES:

- Each presentation should take no less than 5 minutes and no more than 10 minutes. Grading will be based on accuracy, completeness, creativity, learning value, quality of presentation.
- Each group must print and hand in the proper scoring rubric when the project is presented.
- This assignment will be worth 40 points, and all members of the group will receive the same grade.