

# Cycles Worksheet

Go the website: <http://www.epa.gov/climatechange/kids/version2.html>

for information on the water and carbon cycles.

## Water Cycle

1. How is water stored on Earth during the water cycle?
2. Water moves into the atmosphere through \_\_\_\_\_ and \_\_\_\_\_ and returns to the Earth through \_\_\_\_\_.
3. What is the difference between infiltration and runoff?
4. Where do groundwater and runoff usually end up?
5. What are three ways global warming might affect the water cycle?

## Carbon Cycle

1. Why is Carbon important?
2. What are seven places that carbon exists?
3. How does carbon enter the biotic part of the ecosystem, namely plants from the atmosphere?
4. How does it enter the soil?
5. How does carbon enter water? How do aquatic plants get carbon?
6. How do animals get carbon?

6. What are two ways carbon returns from animals into the water?

7. What is combustion, and how does it affect the carbon cycle?

8. How does deforestation affect the carbon cycle?

**Go to the web site: <http://www.physicalgeography.net/fundamentals/9s.html> for help with the nitrogen cycle**

## **Nitrogen cycle notes**

1. Why is nitrogen important?

2. How is nitrogen from the atmosphere, the abiotic part of the ecosystem, converted in to the biotic part of the ecosystem in organisms?

3. How do consumers get nitrogen?

4. How does nitrogen return to the atmosphere?

**Go the the web site: <http://www.elmhurst.edu/~chm/vchembook/308phosphorus.html> and <http://www.princeton.edu/~chm333/2003/agriculture/phosphoruscycle.htm> for help.**

## **Phosphorus Cycle**

1. Why is phosphorus important to living organisms?

2. How is the phosphorus cycle different from the nitrogen or carbon cycles?