## Nitrogen Cycle Web Quest

Go to: <u>http://users.rcn.com/jkimball.ma.ultranet/BiologyPages/N/NitrogenCycle.html</u> and answer these questions.

- 1. What percentage of the air we breathe is nitrogen?
- 2. Even though considerable nitrogen is available in the air, most plants do not use the nitrogen  $(N_2)$  found in the air. Why not?
- 3. In what compounds can plants use nitrogen?
- 4. How do animals get the nitrogen they need?
- 5. Atmospheric nitrogen (N<sub>2</sub>) is pretty <u>inert</u>. This means that it does not easily break apart. When molecules do not break apart easily, it is difficult (or impossible) for organisms to use them as a nutrient source. As a result, **nitrogen fixation** is the term used to describe the process of breaking up N<sub>2</sub>.
  - a. What is atmospheric fixation?
  - b. What is industrial fixation? [This is how artificial fertilizers are made.]
  - c. What is biological fixation? (In your answer, describe the types of plants associated with the symbiotic relationship.)

## Go to: <u>http://www.physicalgeography.net/fundamentals/9s.html</u> and answer these questions.

10. Why is nitrogen needed by plants and animals?