

Name \_\_\_\_\_

Date \_\_\_\_\_

**Questions for Nitrogen**

Read the article "Nitrogen" and answer the following questions:

1. What is the most common gas in the atmosphere? Why is this gas converted into other forms?
2. Why is nitrogen important? Give at least three examples of places where nitrogen exists.
3. Which nitrogen compounds are the most common in the environment?
4. What is the threshold of nitrate-nitrogen concentration for unpolluted water?
5. Give three examples of pollutants containing high levels of nitrate.
6. What is the consequence of excessive nitrate fertilization?
7. Where does the nitrate in the atmosphere come from?
8. What may happen when nitrate-nitrogen level in public water supplies exceeds 10mg/l?
9. Explain how high levels of turbidity in the Hudson River limit the threat of eutrophication.
10. Imagine the molar concentration in a public water supply is  $180\mu\text{mol/l NO}_3^-$ . Convert it into a mass concentration and explain if whether or not we can drink it (according to the Environmental Protection Agency).