



Name: _____

Date: _____

Nitrogen Cycle, Worksheet - 1

- 1. Explain why bacteria are the most important part of the nitrogen cycle.**
- 2. If nearly 78% of the atmosphere is made of nitrogen, how could there be a shortage of nitrogen in soil?**
- 3. How do animals obtain usable nitrogen? Why is it important?**
- 4. Give the two ways nitrogen can be fixated so plants can use it to grow.**
- 5. Explain the problem if too much nitrogen enters an aquatic ecosystem.**
- 6. Explain the statement “Nutrients do not flow in one direction in the ecosystem, they recycle through the ecosystem.”**
- 7. What do plants and animals need nitrogen for?**



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Nitrogen Cycle, Worksheet - 2

Fill in the blanks below -

1. Our atmosphere is _____ nitrogen gas.
2. Animals and plants cannot directly use all the nitrogen found in our _____.
3. Only special bacteria can directly use nitrogen in our atmosphere and “fix” it so other organisms can benefit. These bacteria are called _____ bacteria.
4. Higher organisms use nitrogen to make their _____.
5. Animal waste decay by the action of bacteria which create _____ and _____ products rich in nitrogen, and useful for plants to use again.
6. _____ bacteria in the soil can break down the ammonia into the gaseous form of nitrogen, which is not available for use by plants or animals.
7. In another part of the cycle, animals eat _____ containing nitrogen, which is again returned to the soil by animal _____ or decaying _____ and _____.
8. Draw a diagram of the Nitrogen cycle using the words in the text box.