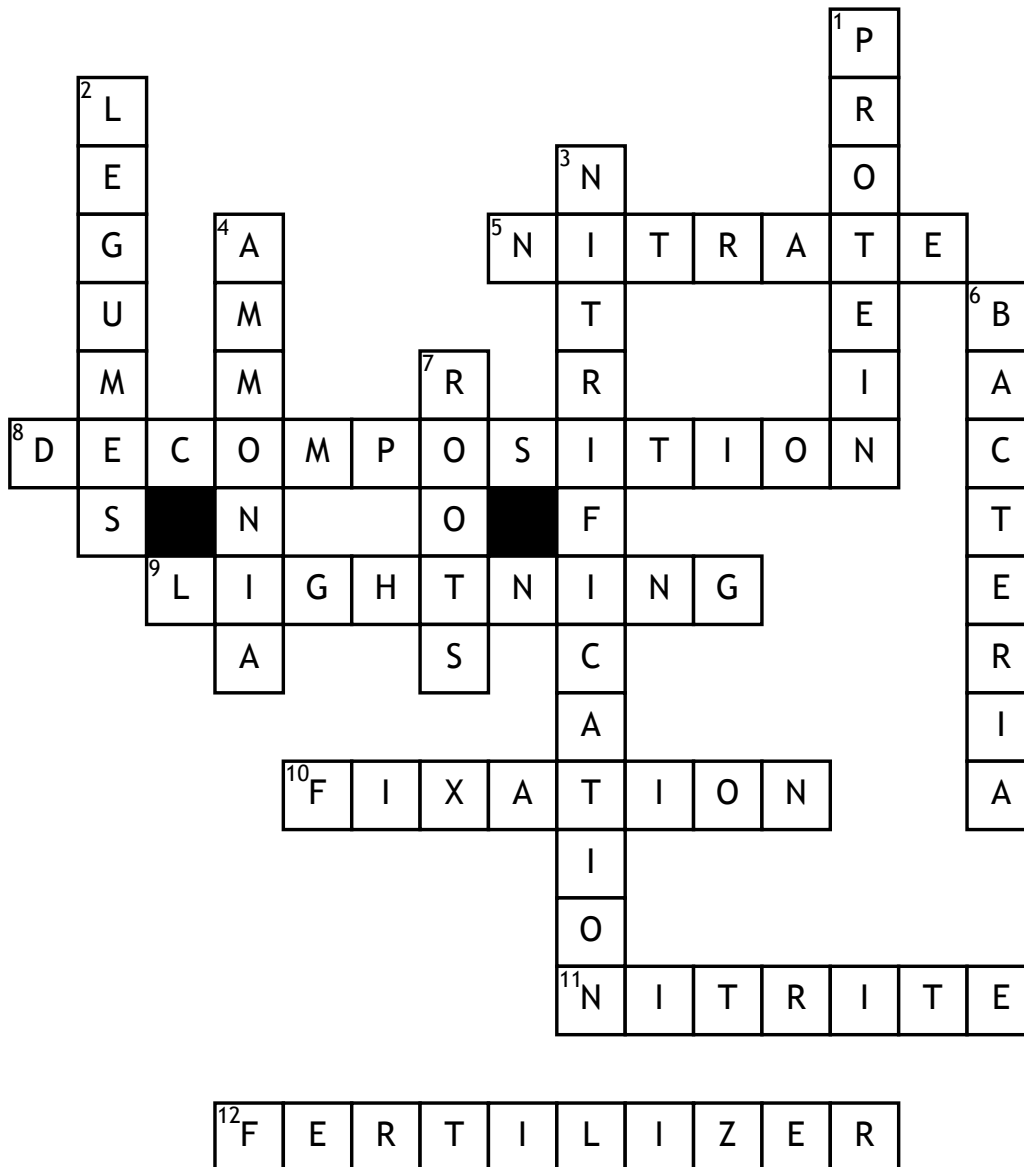


Name: _____

Date: _____

Nitrogen Cycle



Across

5. A group of microbes changes what back into nitrogen gas (N₂) or nitrous oxide (N₂O)?

8. The break down of the tissues of dead plants and animals is called what?

9. What is something bright that changes nitrogen gas into a form useful to plants?

10. Nitrogen gas (N₂) must first be changed into ammonia (NH₃). A diversity of bacteria have the proteins necessary to do this. This is called what?

11. Ammonia needs to be changed into what and then nitrate (NO₃-)?

12. It can either be synthetic or natural and is important for plants to grow. What is it?

Down

1. Meat and eggs are common types of what?

2. What type of plant has nitrogen-fixing bacteria in root nodules?

3. The process of nitrifying bacteria bringing about the oxidation of ammonia (NH₃) to nitrites (-NO₂) and of nitrites to nitrates (-NO₃) is called what?

4. What needs to be changed into nitrite (NO₂-) and then nitrate (NO₃-)?

6. Nitrogen gas (N₂) must first be changed into ammonia (NH₃). A diversity of what have the proteins necessary to do this?

7. A group of nitrogen-fixing organisms is composed of special bacteria, which live symbiotically in nodules on the what of certain plants?