

Name _____

Green Chemistry: Plant's Nitrogen-Nurturing Magic

Short Answer Key

1. Plants assimilate nitrogen into organic compounds through processes like protein synthesis and nucleic acid formation.
2. Plants recycle nitrogen by shedding organic matter that decomposes, releasing nitrogen compounds back into the soil.
3. Nitrogen-fixing bacteria form symbiotic relationships with certain plants, providing them with ammonia derived from atmospheric nitrogen.
4. Plants contribute to nitrogen loss from ecosystems through processes like leaching, runoff, and volatilization.
5. Nitrogen is significant for plant growth and development as it is a key component of amino acids, proteins, chlorophyll, and nucleic acids.

