

Name _____

Nourishing the Earth: The Impact of the Nitrogen Cycle on Soil Fertility

Open-Ended Response Questions

1. Investigate how human activities, such as agriculture and industrial processes, impact the nitrogen cycle and soil fertility.
2. Explore the role of nitrogen-fixing plants, such as legumes, in enhancing soil fertility through symbiotic relationships with nitrogen-fixing bacteria.
3. Discuss the challenges and opportunities associated with managing nitrogen inputs in agricultural systems to optimize soil fertility while minimizing environmental impacts.
4. Reflect on the interconnectedness of the nitrogen cycle with other biogeochemical cycles, such as the carbon and phosphorus cycles, in shaping ecosystem dynamics and resilience.

