Name _____

The Nitrogen Cycle's Impact on Aquatic Worlds

Multiple Choice Questions

1. Which process in the nitrogen cycle converts atmospheric nitrogen gas into ammonia?

a) Nitrification

b) Assimilation

c) Nitrogen fixation

d) Denitrification

2. What role do nitrifying bacteria play in the nitrogen cycle?

a) Converting ammonia into nitrate

b) Converting nitrate into nitrogen gas

c) Converting nitrogen gas into ammonia

d) Breaking down organic nitrogen compounds

3. What is the primary form of nitrogen utilized by aquatic plants and phytoplankton?

a) Nitrogen gas (N2)

b) Ammonia (NH3)

c) Nitrite (NO2-)

d) Nitrate (NO3-)

4. What process in the nitrogen cycle releases nitrogen gas back into the atmosphere?

a) Nitrogen fixation

b) Nitrification

c) Assimilation

d) Denitrification

5. How can excessive nitrogen inputs into aquatic ecosystems affect water quality?

a) By reducing nutrient availability

b) By causing eutrophication

c) By promoting biodiversity

d) By increasing dissolved oxygen levels