

Name \_\_\_\_\_

## Beneath the Surface: Bacteria's Vital Role in the Nitrogen Cycle

### Multiple Choice Questions

1. Where do nitrogen-fixing bacteria primarily live?
  - a) In the air
  - b) In the soil
  - c) In the ocean
  - d) In plant leaves
  
2. What is the role of nitrifying bacteria in the nitrogen cycle?
  - a) Converting atmospheric nitrogen into ammonia
  - b) Breaking down organic matter into ammonia
  - c) Converting ammonia into nitrates
  - d) Converting nitrates into atmospheric nitrogen gas
  
3. What is ammonification?
  - a) The breakdown of organic matter into ammonia by decomposer bacteria
  - b) The conversion of nitrates into atmospheric nitrogen gas
  - c) The conversion of atmospheric nitrogen into ammonia
  - d) The absorption of nitrates by plant roots
  
4. How do leguminous plants benefit from their relationship with nitrogen-fixing bacteria?
  - a) They can photosynthesize more efficiently.
  - b) They have larger leaves than other plants.
  - c) They produce more fruits and vegetables.
  - d) They can access nitrogen directly from the air.
  
5. What is the significance of denitrification in the nitrogen cycle?
  - a) It converts atmospheric nitrogen into ammonia.
  - b) It releases ammonia into the soil.
  - c) It recycles nitrates back into atmospheric nitrogen gas.
  - d) It converts nitrates into nitrites.

