

Biogeochemical Cycles Quiz PDF

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Which process is a part of the water cycle?

- Photosynthesis
- Evaporation
- Nitrogen fixation
- Combustions

Which element is primarily cycled through the phosphorus cycle?

- Nitrogen
- Carbon
- Phosphorus
- Sulfur

Discuss the importance of the water cycle in regulating Earth's climate.

What are some potential solutions to mitigate the negative impacts of human activities on the sulfur cycle?

Analyze how changes in the carbon cycle can affect global ecosystems.

What is the main consequence of excess nitrogen in water bodies?

- Acid rain
- Eutrophication
- Global warming
- Soil erosion

Which of the following are processes in the nitrogen cycle? (Select all that apply)

- Photosynthesis
- Nitrification
- Denitrification
- Evaporation

Which processes are involved in the water cycle? (Select all that apply)

- Transpirations
- Combustions
- Precipitation
- Photosynthesis

Which process converts atmospheric nitrogen into a form usable by plants?

- Nitrification
- Denitrification
- Nitrogen fixation
- Ammonification

What is a major human activity that disrupts the sulfur cycle?

- Deforestation
- Industrial emissions
- Agriculture
- Urbanization

Which cycle is most affected by deforestation?

- Water cycle
- Sulfur cycle
- Nitrogen cycle
- Phosphorus cycle

Which cycles are essential for plant growth? (Select all that apply)

- Nitrogen cycle
- Phosphorus cycle
- Sulfur cycle
- Water cycle

Explain how human activities can lead to an imbalance in the nitrogen cycle.

Describe the role of photosynthesis in the carbon cycle.

How does the phosphorus cycle differ from the nitrogen cycle in terms of its environmental impact?

Which cycle is directly involved in the formation of fossil fuels?

- Water cycle
- Carbon cycle
- Nitrogen cycle
- Phosphorus cycle

What are the consequences of disrupting the phosphorus cycle? (Select all that apply)

- Eutrophication
- Soil infertility
- Increased greenhouse gases
- Acid rain

What is the primary role of the carbon cycle in ecosystems?

- Nutrient absorption
- Energy flow
- Water purification
- Soil erosion

What are the effects of human activities on the carbon cycle? (Select all that apply)

- Increased atmospheric CO₂
- Ocean acidification
- Soil erosion
- Diversity loss

Which elements are cycled through biogeochemical cycles? (Select all that apply)

- Oxygen
- Carbon
- Nitrogen
- Helium