## **Quiz 13 - Ecosystem Ecology - Nutrient Cycling**

**Due** Apr 14 at 11:59pm

Points 7

Questions 7

Available until Apr 14 at 11:59pm

Time Limit 60 Minutes

**Allowed Attempts** 2

## Instructions

This quiz asks questions about the carbon and nitrogen cycle and limiting factors.

You have 2 attempts at this quiz. The highest mark counts. You have 60 minutes to complete each attempt.

This quiz is due at 11:59 pm on Friday, April 14. I hope to cover nutrient cycling on Tuesday, the 11th (second to last class)

Take the Quiz Again

## **Attempt History**

	Attempt	Time	Score
LATEST	Attempt 1	6 minutes	7 out of 7

① Correct answers will be available Apr 15 at 12pm - Apr 23 at 6pm.

Score for this attempt: **7** out of 7 Submitted Apr 12 at 10:29pm This attempt took 6 minutes.

## Question 1 1 / 1 pts

An ecosystem consists of all the organisms of a particular region plus all of the abiotic components. Which of the following are <u>abiotic</u> factors that might be included when defining an ecosystem? (Select all that apply)

Water availability

Microorganisms	
✓ Temperature	
Nutrient availability	
Biodiversity	

Question 2	1 / 1 pts
Plants are primary producers (autotrophs = "self-feeders' proportion of the plant species in a given ecosystem were then the net primary productivity (NPP) and biomass of the ecosystem would likely:	e removed,
Decrease	
O Increase	
O Stay the same	
Plants are not involved in NPP	

Question 3 1/1	
How does carbon from the atmosphere enter into an ecos	ystem?
It is added or "fixed" by photosynthesis in plants	
Burning of fossil fuels	
Through decomposition (mostly occurring in the soil)	
O Through erosion	

O Via human impacts, such as deforestation

Question 4	1 / 1 pts
How is carbon released from living organisms back to the atmosphere?	
Cellular respiration	
O Photosynthesis	
Burning of fossil fuels, coal, wood or peat	
O Erosion	
Cellular respiration releases carbon that has been incorporated into living tissue, back to the atmosphere happens via any living organism. Burning of fuels released CO2 from inactive geological reservoirs made from lonorganisms.	ases

Question 5	1 / 1 pts	
Match the following terms with their definitions:		
Decomposer	Organisms that feed on d~	
Primary consumer	Organisms that feed on liv	
Tertiary consumer		

Organisms that are predative

Producer

Organisms that synthesizeve

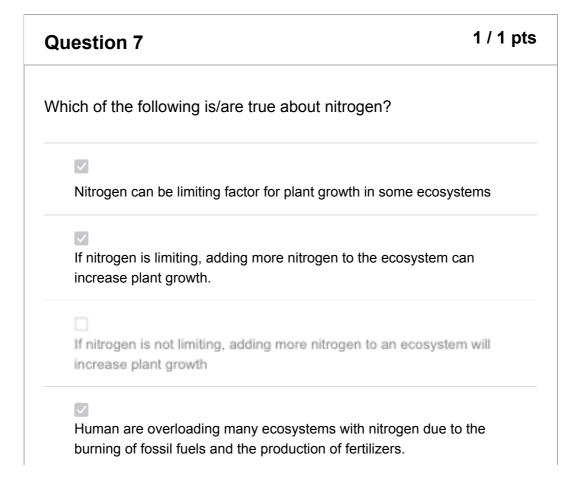
Question 6

Which of the following is true about the global nitrogen cycle?

The main form of nitrogen on Earth is nitrogen gas (N₂)

The only usable form of nitrogen for plants is N₂

Nitrogen (in the form of N₂) is ~78% of the atmosphere, meaning it is an abundant and non-limiting nutrient in all ecosystems



Quiz Score: 7 out of 7