Evolutionary Biology Unit 08: Ecosystems

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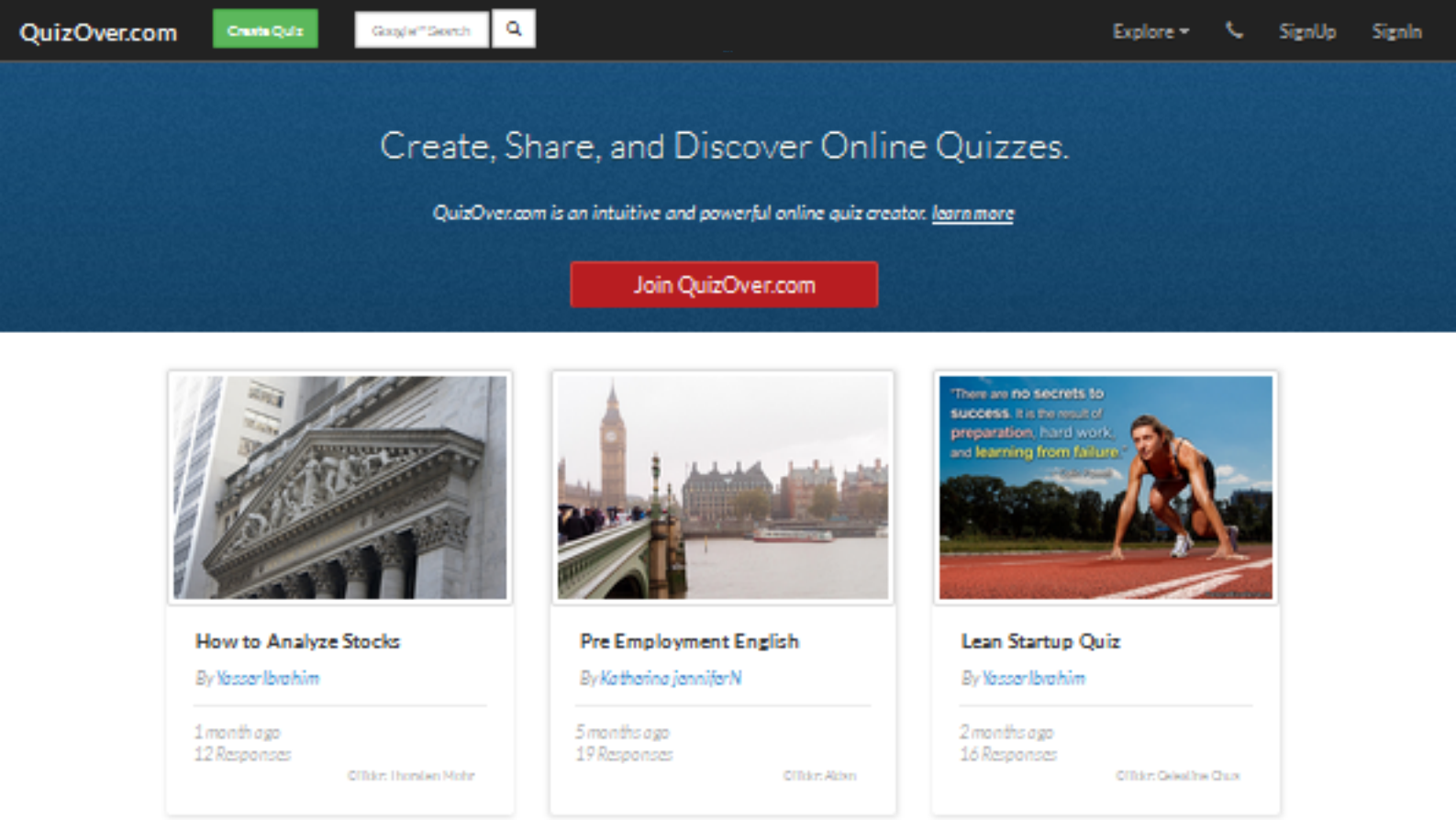

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1. Unit 08: Ecosystems

4. Chapter: Unit 08: Ecosystems

1. Unit 08: Ecosystems Questions

4.1.1. A research scientist finds a new species in the Brazilian rain fore...

Author: Olivia D'Ambrogio

A research scientist finds a new species in the Brazilian rain forest. She notes that though the species has a "trunk-like" stalk and flattened structures similar to leaves, the organism is brown in color and lacks chlorophyll. Additionally, the organism sends out hair like structures that externally digest the plant matter around it. The researchers categorize the new organism as which of the following?

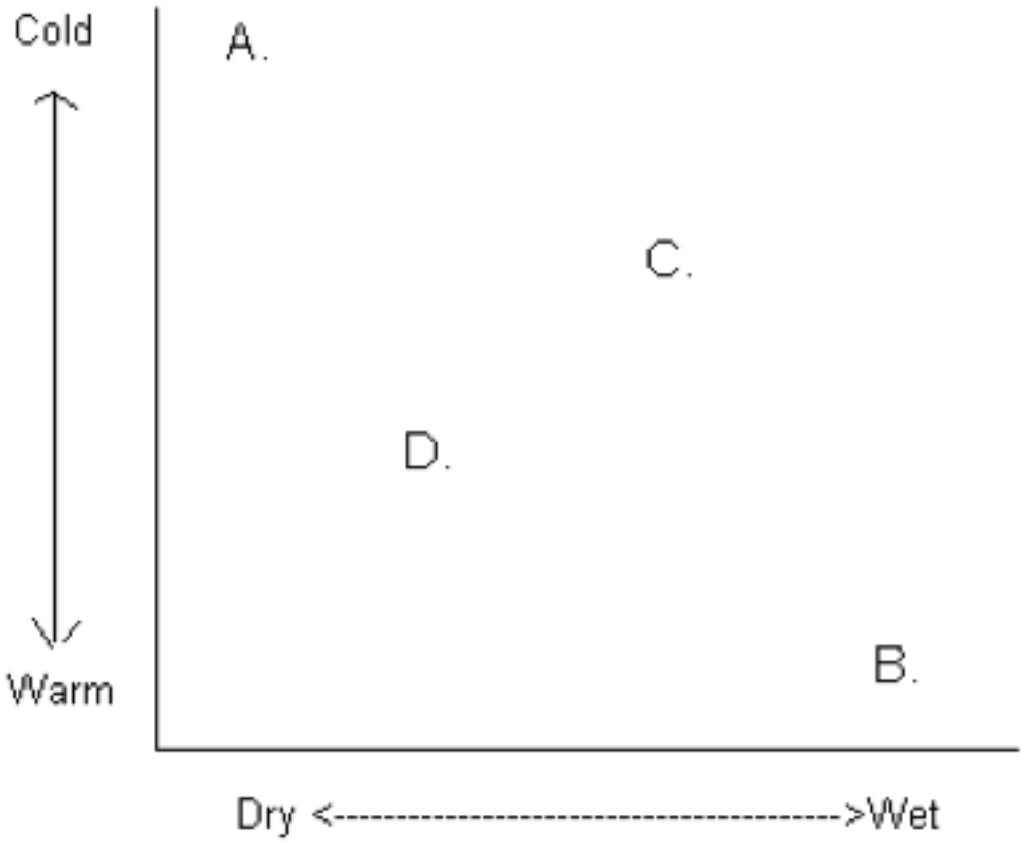
Please choose only one answer:

- A producer
- An autotroph
- A heterotroph
- A manufacturer

4.1.2. Based on your knowledge of biomes, which letter would BEST represen...

Author: Olivia D'Ambrogio

Based on your knowledge of biomes, which letter would BEST represent a desert on the graph below?



Please choose only one answer:

- A
- B
- C
- D

4.1.3. Estuaries serve which of the following purposes?

Author: Olivia D'Ambrogio

Estuaries serve which of the following purposes?

Please choose only one answer:

- To act as basins where rivers empty to the sea
- As nurseries for marine life
- To ensure flood control
- All of the above

Check the answer of this question online at QuizOver.com:
Question: Estuaries serve which of the following Olivia D'Ambrogio @Saylor

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4.1.4. Fill in the blanks. Planting numerous trees would result in the ___...

Author: Olivia D'Ambrogio

Fill in the blanks. Planting numerous trees would result in the _____ of atmospheric carbon, while burning trees would result in the _____ of carbon into the atmosphere.

Please choose only one answer:

- increase; decrease
- release; sequestration
- sequestration; release
- decrease; increase

4.1.5. Fill in the blanks. While most autotrophs derive their main energy ...

Author: Olivia D'Ambrogio

Fill in the blanks. While most autotrophs derive their main energy from _____, heterotrophs derive their main energy from _____.

Please choose only one answer:

- plants; plants
- animals; sun
- photosynthesizes; animals
- sun; other organisms

4.1.6. If a rose bush had 1000J of energy stored, and it was completely co...

Author: Olivia D'Ambrogio

If a rose bush had 1000J of energy stored, and it was completely consumed by a caterpillar, how much energy would the caterpillar ultimately get?

Please choose only one answer:

- 1J
- 10J
- 100J
- 1000J

4.1.7. If a Venus fly trap (a carnivorous plant) consumes a Fruit fly, the...

Author: Olivia D'Ambrogio

If a Venus fly trap (a carnivorous plant) consumes a Fruit fly, the Venus fly trap might be considered a

Please choose only one answer:

- producer and a primary consumer
- producer and a secondary consumer
- producer and a tertiary consumer
- producer and a quaternary consumer

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4.1.8. In 1977, researchers discovered hot springs 2.5 km deep. Surroundin...

Author: Olivia D'Ambrogio

In 1977, researchers discovered hot springs 2.5 km deep. Surrounding these hot springs were a diverse group of animals including giant tube worms, giant clams, and mussels. The researchers found that the food web began with a bacterial species. The sun's rays can only penetrate approximately 300 m below the surface of water; therefore, the bacteria were not photosynthesizing. Instead the bacteria used hydrogen-sulfide from the hot springs to make their own food. These bacteria would be considered which of the following?

Please choose only one answer:

- Consumers
- Autotrophs
- Heterotrophs
- Photosynthesizers

4.1.9. In the 1960's, excessive amounts of plant nutrients such as phospho...

Author: Olivia D'Ambrogio

In the 1960's, excessive amounts of plant nutrients such as phosphorus were added to waterways around Lake Erie. Sources of the nutrients included agricultural fields, suburban lawns, and sewage. What is the result of the addition of nutrient inputs to freshwater and marine areas as a consequence of human activities as describe above?

Please choose only one answer:

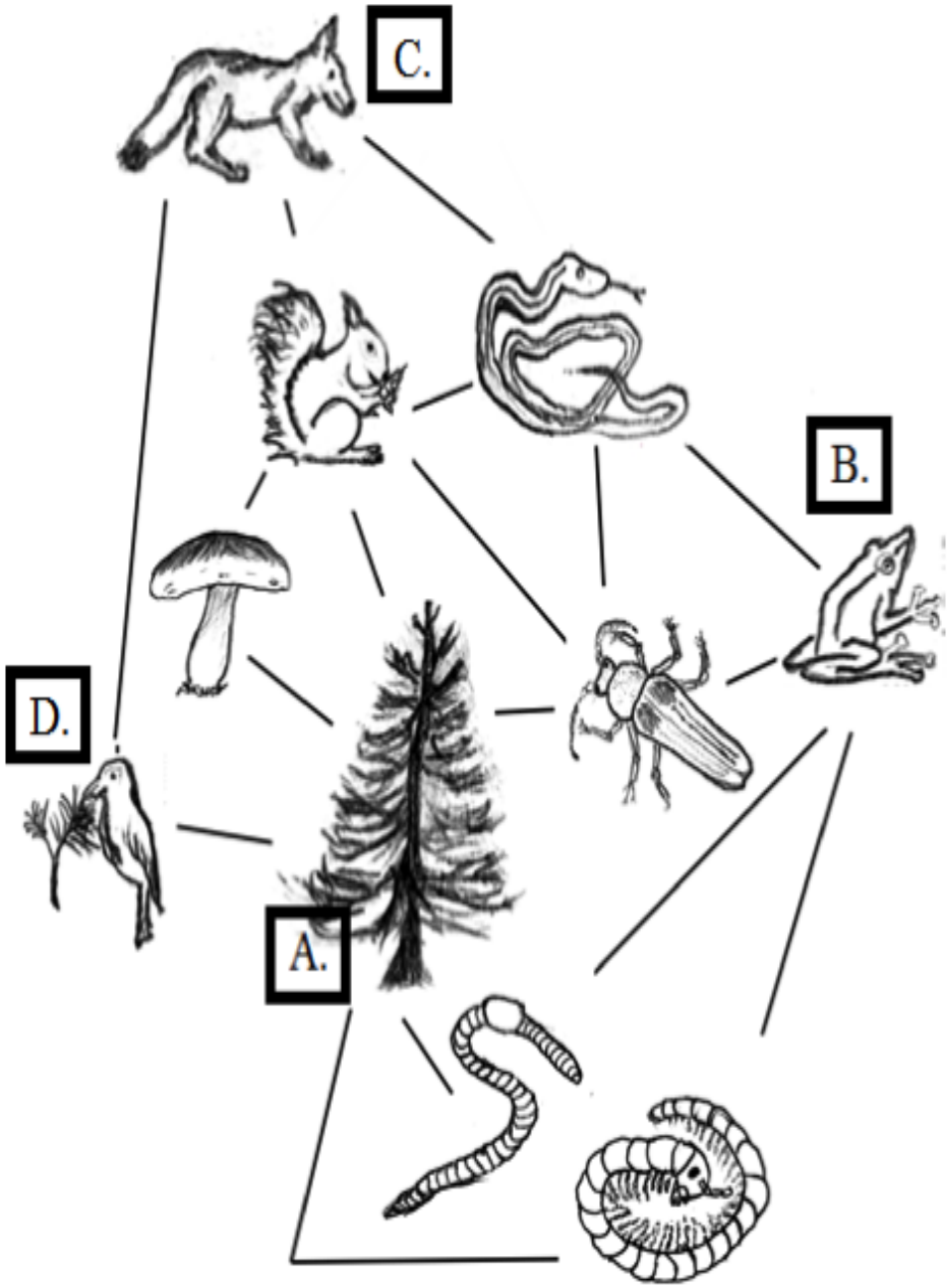
- The addition ultimately increases biodiversity.
- The addition has minimum effects.
- The addition is ultimately beneficial to aquatic habitats.
- The addition causes algal blooms with can ultimately decrease biodiversity.

4.1.10. In the food web diagram below, removal of which keystone species wo...

Author: Olivia D'Ambrogio

In the food web diagram below, removal of which keystone species would most likely have the greatest impact on the entire web?

Source: http://en.wikipedia.org/wiki/File:TrophicWeb.jpg



Please choose only one answer:

- Tree
- Frog
- Fox
- Bird

Check the answer of this question online at QuizOver.com:
Question: In the food web diagram below removal of Olivia D'Ambrogio @Saylor

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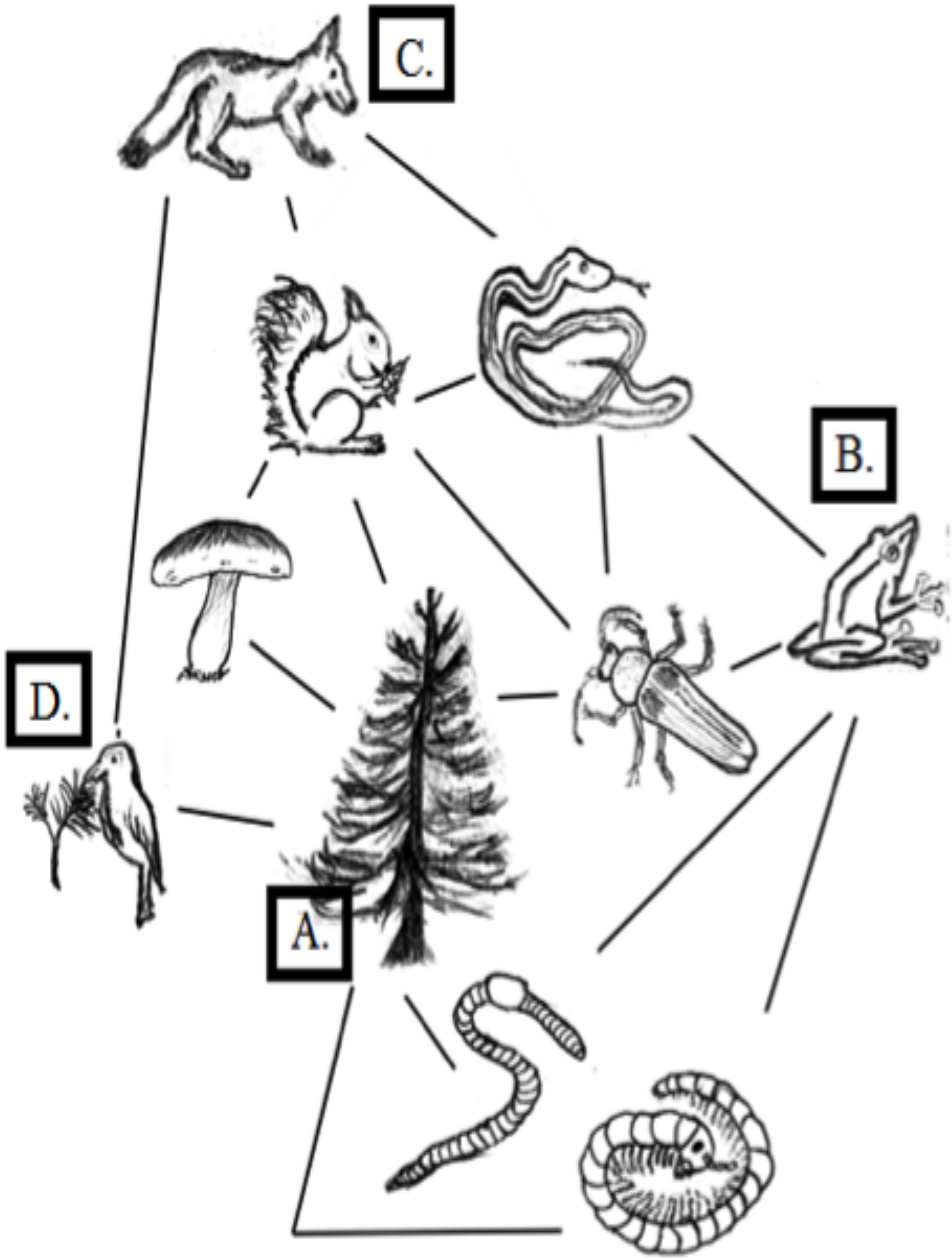
4.1.11. In the food web diagram below, what organism is a secondary consume...

Author: Olivia D'Ambrogio

In the food web diagram below, what organism is a secondary consumer?

Source: http://en.wikipedia.org/wiki/File:TrophicWeb.jpg



Please choose only one answer:

- Tree

- Frog
- Fox
- Bird

Check the answer of this question online at QuizOver.com:
Question: In the food web diagram below what organism Olivia D @Saylor.org

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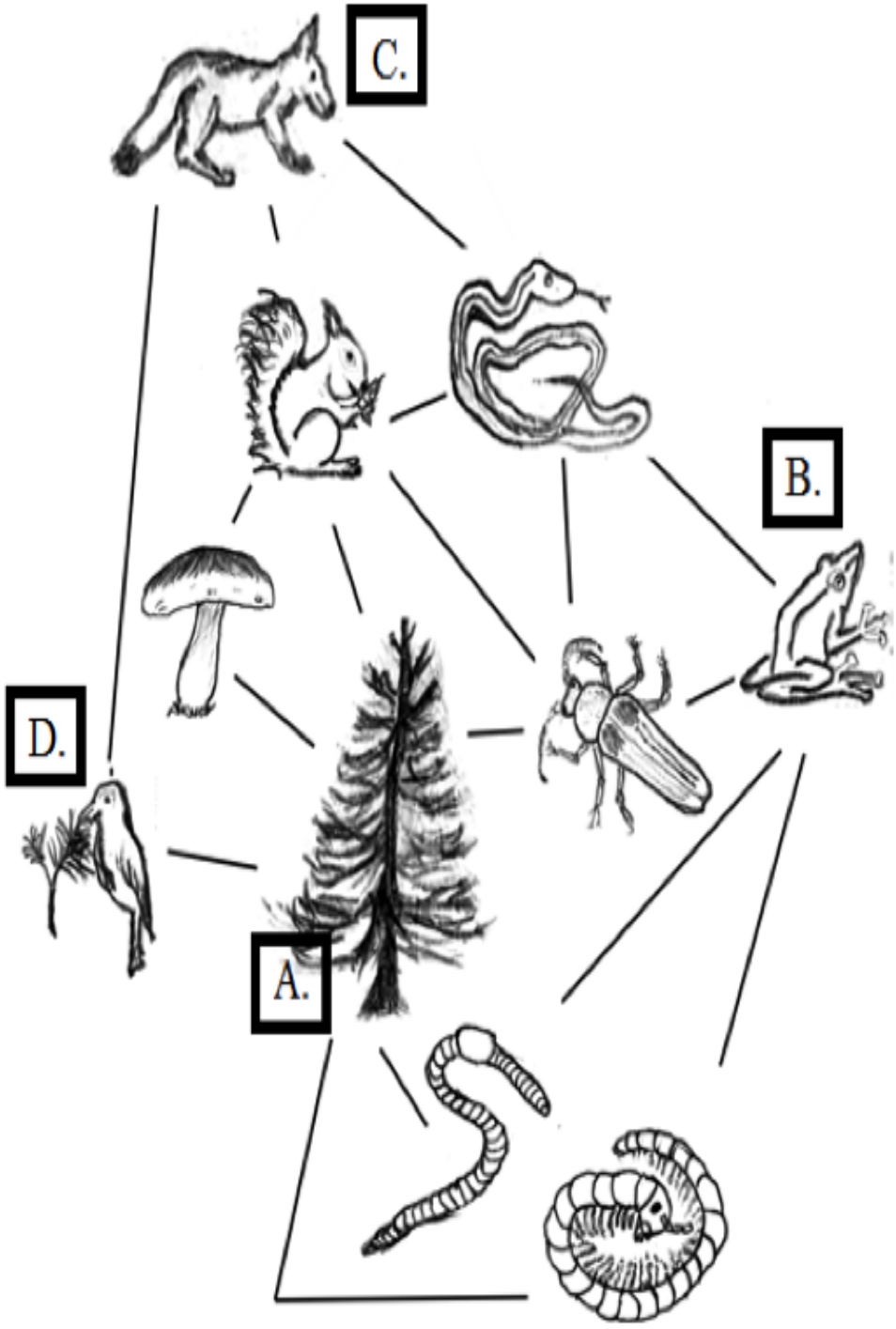
4.1.12. In the food web diagram below, what organism is a top predator?
Sou...

Author: Olivia D'Ambrogio

In the food web diagram below, what organism is a top predator?

Source: http://en.wikipedia.org/wiki/File:TrophicWeb.jpg



Please choose only one answer:

- Tree
- Frog
- Fox
- Bird

4.1.13. Regarding how energy flows through an ecosystem, which of the follo...

Author: Olivia D'Ambrogio

Regarding how energy flows through an ecosystem, which of the following statements is true?

Please choose only one answer:

- As energy moves through an ecosystem, some is wasted or lost in the form of heat. Therefore, there will always be more producers in a system than consumers.
- The process of energy moving through an ecosystem is highly efficient. This allows for an equal number of consumers and producers.
- As energy moves through an ecosystem, some is wasted or lost in the form of heat. Therefore, there will always be more consumers in a system than producers.
- The process of energy moving through an ecosystem is highly efficient. This allows for more consumers than producers.

4.1.14. The major components of the water cycle include precipitation, coll...

Author: Olivia D'Ambrogio

The major components of the water cycle include precipitation, collection, condensation, and evapo-transpiration. Evaporation is in reference to surface waters. What does the second part of the word, transpiration, refer to?

Please choose only one answer:

- Evaporation from plants
- Evaporation through animal perspiration
- Evaporation off the ground shaded by plants
- Evaporation from the surface of rivers

4.1.15. Which marine zone would be most abundant in photosynthetic producers?

Author: Olivia D'Ambrogio

Which marine zone would be most abundant in photosynthetic producers?

Please choose only one answer:

- Epipelagic
- Mesopelagic
- Bathypelagic
- Abyssopelagic

Check the answer of this question online at QuizOver.com:
Question: Which marine zone would be most abundant Olivia D'Ambrogio @Saylor

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