



Environmental Systems

Ecosystems: Energy and Matter

Comprehension Questions

View the video attentively. As you watch, complete the following comprehension questions and tasks.

1. Living things within an ecosystem are called _____ factors and non-living things are the _____ factors.

2. What do we call the branch of science involved in the study of ecosystems?
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3. Tropical rainforest and tundra are examples of biomes found on Earth. Name two other major types of biomes mentioned in the video.

- _____
 - _____
-

4. What is the source of all energy on Earth?
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5. Select all that apply. An organism that makes its own food is known as a/an:

- a) autotroph.
- b) decomposer.
- c) heterotroph.
- d) producer.

6. Energy has a multi-directional flow through food chains.

True False

7. During photosynthesis, energy is transformed from:

- a) chemical energy to heat energy.
- b) electrical energy to chemical energy.
- c) light energy to chemical energy.
- d) light energy to heat energy.

8. Energy can leave an ecosystem, while matter is recycled.

True False





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9. Which two chemical compounds are the main inputs required for plants to photosynthesise?

- _____
- _____

10. What is the name of the group of organisms responsible for breaking down dead organisms and returning matter to the soil and atmosphere?

