



# 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?  
\_\_\_\_\_
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?  
\_\_\_\_\_
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?

\_\_\_\_\_

