

Energy Pyramid Review

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Understanding Energy Flow in Ecosystems

Name: _____

Date: _____

Answer the following questions based on the lesson about energy pyramids and ecosystems.

1. What percentage of energy is typically transferred from one trophic level to the next in an energy pyramid?

- A. 1%
- B. 10%
- C. 50%

2. Explain why energy is lost between trophic levels in an ecosystem. Include at least two reasons in your answer.

3. Producers capture the most solar energy in an ecosystem.

- True False

4. In an energy pyramid, each level loses energy through ____ and metabolic processes.

5. How does the concept of the energy pyramid reflect God's intricate design in creation?

6. Which of the following best describes the top level of an energy pyramid?

- A. Producers
- B. Primary Consumers
- C. Tertiary Consumers

7. Energy pyramids indicate that energy can easily be recycled without loss at each level.

- True False

8. Colossians 1:17 states, 'He is before all things, and in him all things hold ____.'

9. What role do producers play in the energy pyramid?

- A. They consume energy from the sun.
- B. They are the top consumers.
- C. They transfer energy to the next level.

10. What was one surprising fact you learned about energy transfer in ecosystems?

Answer Key

1. 10% 2. Energy is lost due to heat and metabolic processes. 3. True 4. heat 5. The energy pyramid shows how God has designed ecosystems to function efficiently. 6. Tertiary Consumers 7. False 8. together 9. They consume energy from the sun. 10. I was surprised to learn that only 10% of energy is transferred between levels, which means a lot of energy is lost at each stage.