

Energy Flow Through Spheres

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Understanding Earth's Interconnected Systems

Name: _____

Date: _____

Answer the following questions based on the lesson about energy flow through Earth's spheres.

1. What is the starting point of energy flow in Earth's systems?

- A. The Moon
- B. The Sun
- C. The Earth

2. Explain how energy transforms as it moves through the biosphere. Provide an example.

3. Energy only moves through the atmosphere and does not affect the biosphere.

- True False

4. Energy moves through the lithosphere, hydrosphere, and _____.

5. Which process do plants use to convert solar energy?

- A. Respiration
- B. Photosynthesis
- C. Transpiration

6. What did you find surprising about energy movement through Earth's systems?

7. Solar energy is transformed into thermal energy as it heats the Earth.

- True False

8. According to Psalms 104:24, the earth is full of your _____.

9. Which spheres does energy pass through?

- A. Only the atmosphere
- B. Biosphere, atmosphere, hydrosphere, lithosphere
- C. Just the lithosphere

10. How do you think God's design is shown in the way energy flows through Earth's systems?

Answer Key

1. The Sun 2. Energy transforms from solar energy to chemical energy in plants during photosynthesis. 3. False 4. atmosphere 5. Photosynthesis 6. I was surprised by how quickly energy changes forms as it moves through different spheres. 7. True 8. creatures 9. Biosphere, atmosphere, hydrosphere, lithosphere 10. God's design is evident in the interconnectedness of the systems, showing how everything works together to sustain life.