

Review of Earth's Spheres: Interconnected Systems

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Understanding Sphere Interactions in Nature

Name: _____

Date: _____

Answer the following questions based on the lesson content about Earth's spheres and their interactions.

1. What are the four Earth spheres?

- A. Atmosphere, Hydrosphere, Geosphere, Biosphere
- B. Sky, Water, Land, Life
- C. Air, Water, Soil, Plants

2. Explain how a volcanic eruption might affect living things in the Biosphere. Include at least two examples in your answer.

3. The interaction between the atmosphere and the hydrosphere can create ____ during storms.

4. The geosphere includes living organisms like plants and animals.

- True False

5. Why is it important to understand the interactions between Earth's spheres? Give at least two reasons.

6. Which sphere is primarily responsible for water in the environment?

- A. Atmosphere
- B. Hydrosphere
- C. Geosphere

7. Psalm 104:14 shows that God causes the grass to grow for the ____ and plants for man to cultivate.

8. Mapping sphere interactions helps us visualize how different Earth systems work together.

- True False

9. What surprised you the most about how Earth's spheres interact? Share your thoughts in a few sentences.

10. How do events like volcanic eruptions impact multiple spheres?

- A. They only affect the geosphere.
- B. They can cause changes in all four spheres.
- C. They have no effect on living things.

Answer Key

1. Atmosphere, Hydrosphere, Geosphere, Biosphere 2. A volcanic eruption can destroy habitats and cause animals to flee. It can also release ash that covers plants, making it hard for them to get sunlight and grow. 3. precipitation 4. False 5. Understanding these interactions helps us see how ecosystems work. It also shows how natural disasters can affect life on Earth, helping us prepare for them better. 6. Hydrosphere 7. livestock 8. True 9. I was surprised to learn how volcanic eruptions can affect both the atmosphere and the biosphere. The ash can block sunlight, which impacts plants and animals. 10. They can cause changes in all four spheres.