



EARTH'S SPHERES

WHICH SPHERE AM I?

Read the following statements carefully. In the spaces provided, identify and write the name of the **sphere** being described.

1. I cover **30%** of Earth's surface. _____
2. The **liquid part** of the Earth consisting of water. I am the _____
3. I constitute all **frozen places** on Earth, including snow and ice. _____
4. My family consists of all **seas, lakes, ponds, rivers** and underground water. Who am I?

5. I blanket the Earth; I produce **winds, rains** and even **hurricanes**. I am the _____.
6. All **life** on Earth, together with the dead organic matter make up the _____.
7. I am a mixture of **nitrogen, oxygen** and other gases. I am the _____.
8. I am found in the **polar** and **arctic** regions. I am thick, dense and very cold. I am the

9. I am the **biological** component of Earth's systems. I am the _____
10. I am **where plant roots** and rabbits live. _____
11. **Deserts** are part of the _____
12. **Jets fly** in the **stratosphere**. The stratosphere is part of the _____.
13. **Earthquakes** occur in me; I am part of the _____.
14. This is the sphere which is home to the **rock cycle**. _____
15. This sphere consists of **rocks** and **minerals**. _____
16. The **Missouri, the Orinoco and the Nile** are parts of me. _____
17. The **Ground lizard, the goat and the giraffe** are parts of me. _____
18. **Volcanic eruptions**, like that of St. Vincent, affect the _____ and the _____.
19. With **global warming** I am slowly disappearing _____
20. **Smoke** is a form of pollution in me. _____



Fig. 1.2: Domains of the Environment

21. **Describe** each of Earth's four spheres. List **two** examples of features in each sphere.

Sphere	Geosphere	Hydrosphere	Atmosphere	Biosphere
Description				
Examples				

22. Do you think **clouds** should be classified as part of the **atmosphere**, or part of the **hydrosphere**? Explain why.

23. How do the spheres interact? **Name the spheres** that are interacting in each scenario.

Example: Plants get carbon dioxide from the air: Biosphere (plants) + Atmosphere (CO₂)

A. **Lichen** (hard backs) use chemicals to wear down **rocks** for food:

B. **Plants** take up minerals from the **soil**

24. How do the spheres **interact**? Give an example for each type of interaction.

Example: Biosphere + Geosphere: Humans (Bio) built a dam out of rock materials (Geo)

A. Geosphere + Hydrosphere: _____

B. Hydrosphere + Atmosphere: _____

25. What is the **atmosphere** made up of?

26. **True or false:** oceans have no effect on the temperature on Earth's land. _____

Which of these is part of the **biosphere**? a. bees b. sand c. rivers d. clouds

27. Which of Earth's spheres do **humans impact**? _____