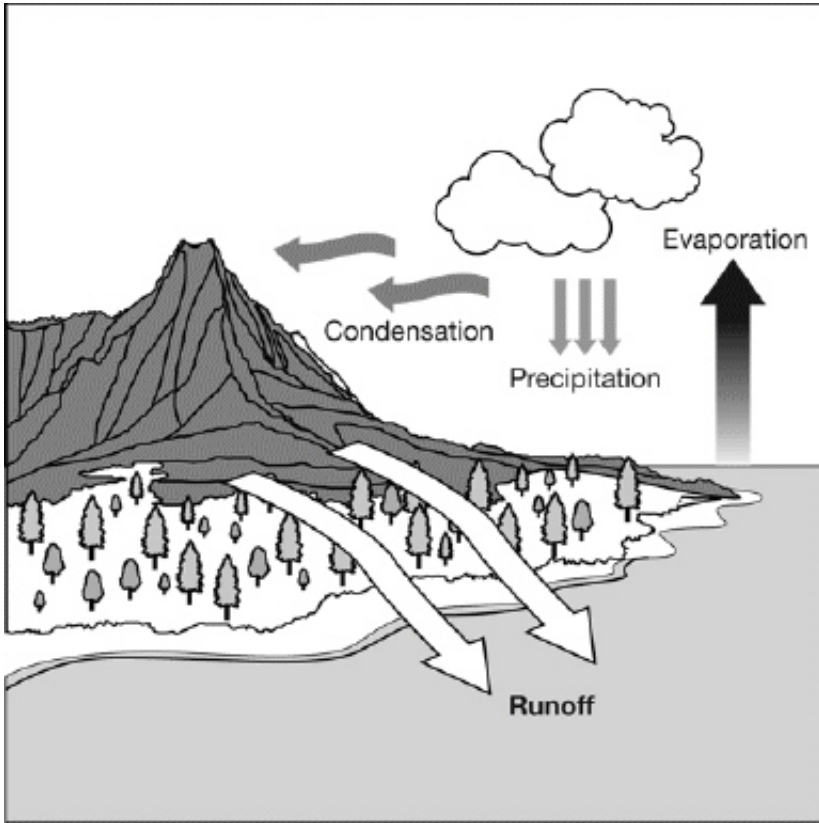


1. Several Earth's spheres can interact together at any given time. Study the diagram below, which shows interactions among Earth's spheres.



The arrows in the diagram represent interactions among which spheres?

- A) hydrosphere, cryosphere, and geosphere
- B) atmosphere, cryosphere, and geosphere
- C) ecosphere, geosphere, and atmosphere
- D) hydrosphere, geosphere, and atmosphere

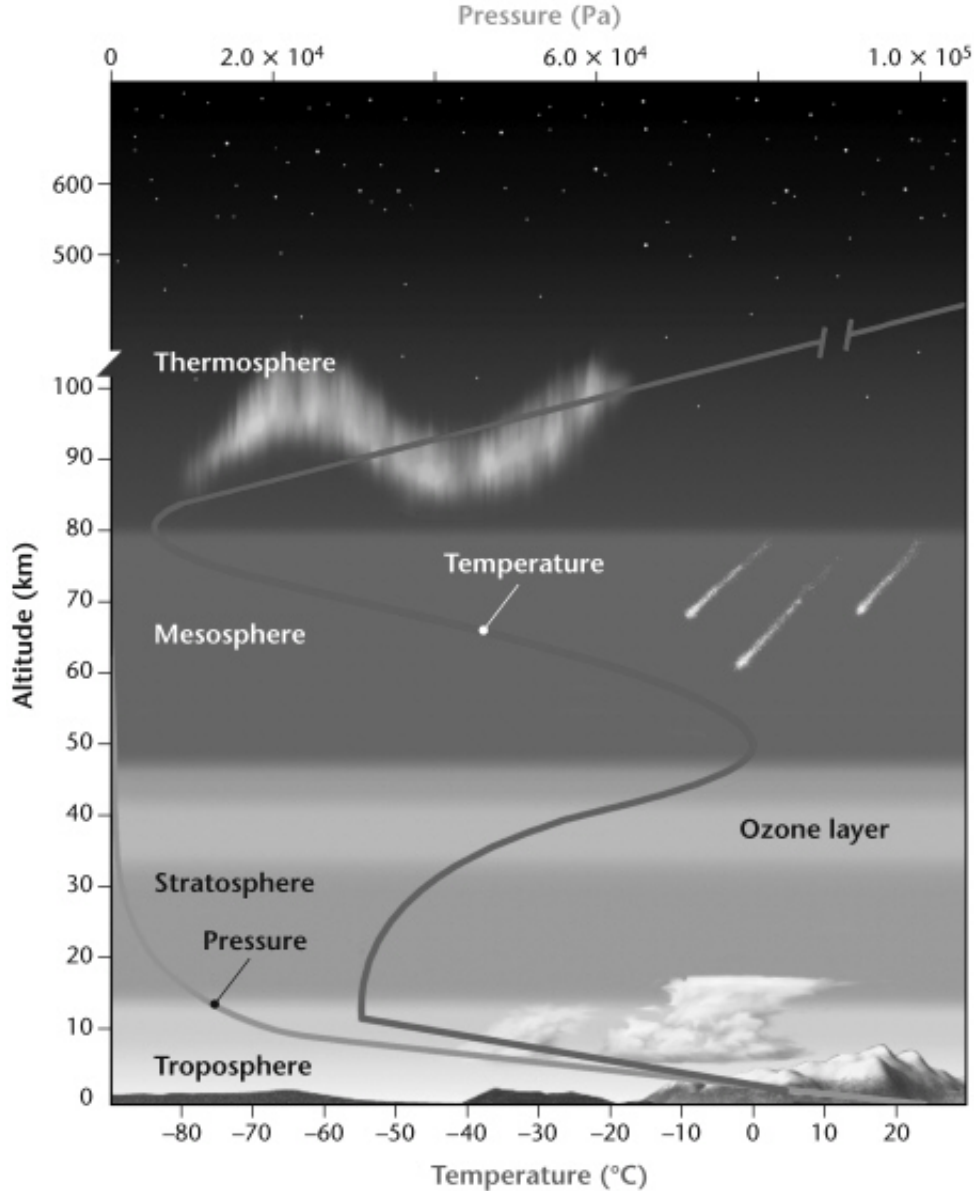
**Correct answer(s):** D

2. Earth's spheres interact in many ways. What is one way that the cryosphere and biosphere interact?

- A) A volcanic eruption destroys the plants on an island.
- B) A melting glacier provides fresh water for plants and animals in the valley below the glacier.
- C) Heavy rains bring an end to a dry period on the African savannah.
- D) A glacier picks up rock and sediment as it moves down a valley.

**Correct answer(s):** B

3. The layers of Earth's atmosphere perform specific functions. Study the illustration below, which shows the layers of the atmosphere.



Which layer of the atmosphere absorbs solar radiation that would be harmful to certain elements of the biosphere?

- A) mesosphere
- B) thermosphere
- C) stratosphere
- D) troposphere

**Correct answer(s): C**

4. Each of Earth's spheres is distinguished by the materials from which it is made. Plants and animals make up part of which sphere?

- A) hydrosphere
- B) cryosphere
- C) biosphere
- D) atmosphere

**Correct answer(s): C**

5. When animals breathe, they take in oxygen from the air. The oxygen is used to obtain energy from food. This example demonstrates interaction between which two spheres?

- A) hydrosphere and geosphere
- B) cryosphere and atmosphere
- C) biosphere and hydrosphere

- D) atmosphere and biosphere

**Correct answer(s): D**

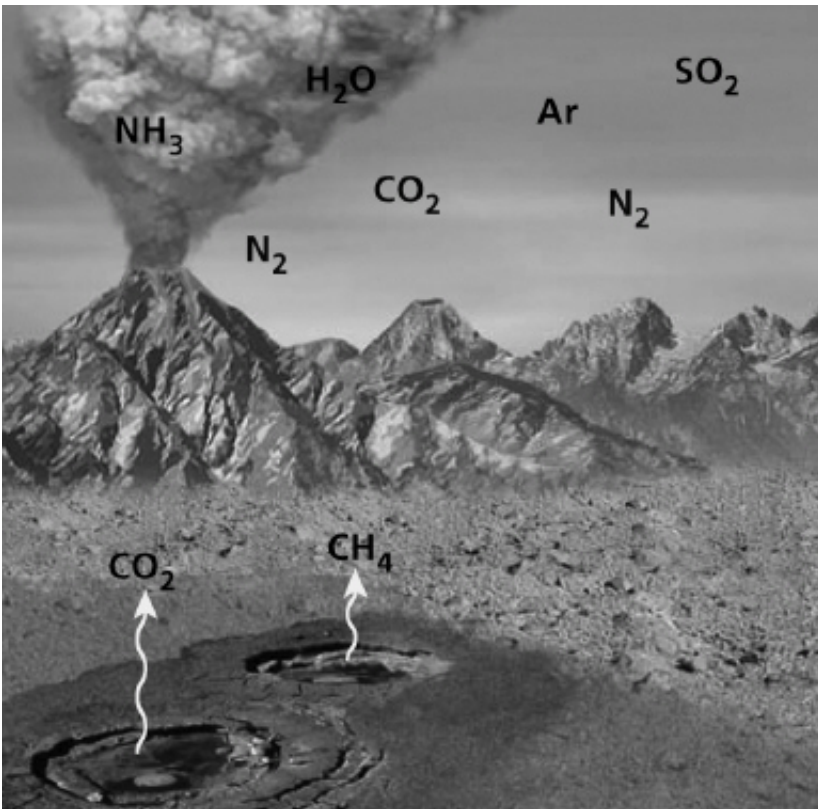
6. Earth's natural systems are divided into four interacting spheres. Which of the following is part of Earth's geosphere?
- A) clouds and air
  - B) lakes and rivers
  - C) rocks and minerals
  - D) glaciers and snowfields

**Correct answer(s): C**

7. Water evaporates from a lake into the air, forming clouds. The clouds eventually form rain and it falls to the ground. In which spheres does this cycle happen?
- A) thermosphere and atmosphere
  - B) hydrosphere and atmosphere
  - C) geosphere and cryosphere
  - D) cryosphere and hydrosphere

**Correct answer(s): B**

8. Look at the illustration below. The volcanic eruption is sending out clouds of dust and ash. An interaction between which two spheres is being demonstrated?



- A) geosphere and atmosphere
- B) atmosphere and hydrosphere
- C) cryosphere and biosphere
- D) biosphere and geosphere

**Correct answer(s): A**

9. Earth's spheres interact in many ways. Which describes how the hydrosphere and atmosphere interact?
- A) Magma erupts and releases trapped gases.
  - B) Polluted air kills several animal species.

- C) A heavy snowfall adds mass to a glacier.
- D) Ocean currents influence weather patterns.

**Correct answer(s):** D

**10.** Which of the following makes up the cryosphere?

- A) ice
- B) air
- C) rocks
- D) plants

**Correct answer(s):** A

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Done

Show/Hide Answers