

SCIENCE GRADED PRACTICE #1

sphere interactions

1. Water evaporating from the surface of a lake moves from the...

- | | |
|--|---|
| <input type="checkbox"/> A Geosphere to the hydrosphere | <input type="checkbox"/> B Atmosphere to the geosphere |
| <input type="checkbox"/> C Hydrosphere to the atmosphere | <input type="checkbox"/> D Atmosphere to the cryosphere |

2.  When living things breathe, they interact with which of Earth's spheres?

- | | |
|--------------------------------------|--|
| <input type="checkbox"/> A Biosphere | <input type="checkbox"/> B Atmosphere |
| <input type="checkbox"/> C Geosphere | <input type="checkbox"/> D Hydrosphere |

3. When carbon dioxide dissolves from the air into the ocean- the interaction is between...

- | | |
|---|--|
| <input type="checkbox"/> A The atmosphere and hydrosphere | <input type="checkbox"/> B The atmosphere and biosphere |
| <input type="checkbox"/> C The atmosphere and geosphere | <input type="checkbox"/> D The atmosphere and atmosphere |

4. When volcanoes erupt, dust and ash particles spread through much of the air blocking the sun. Which two spheres are interacting?

- | | |
|---|---|
| <input type="checkbox"/> A Hydrosphere and atmosphere | <input type="checkbox"/> B Geosphere and atmosphere |
| <input type="checkbox"/> C Atmosphere and atmosphere | <input type="checkbox"/> D Biosphere and atmosphere |

5.



This picture best describes which connection?

- | | |
|---|--|
| <input type="checkbox"/> A Geosphere-Biosphere | <input type="checkbox"/> B Atmosphere-Biosphere |
| <input type="checkbox"/> C Hydrosphere-Atmosphere | <input type="checkbox"/> D Hydrosphere-Geosphere |

6. Sometimes fires burn down large areas of forests that are part of the biosphere. Other than the biosphere, which of Earth's other systems is a forest fire most likely to affect? (SC.6.E.7.4)

- | | |
|--|---------------------------------------|
| <input type="checkbox"/> A Atmosphere | <input type="checkbox"/> B Geosphere |
| <input type="checkbox"/> C Hydrosphere | <input type="checkbox"/> D Cryosphere |

7. When dead plants decompose and nitrogen is returned to the soil, the interaction is between which two spheres? (SC.6.E.7.4)

- | | |
|---|---|
| <input type="checkbox"/> A The atmosphere and geosphere | <input type="checkbox"/> B The biosphere and geosphere |
| <input type="checkbox"/> C The biosphere and atmosphere | <input type="checkbox"/> D The geosphere and atmosphere |

8. When plants draw nutrients from the soil, the interaction is between which two spheres? (SC.6.E.7.4)

- | | |
|--|--|
| <input type="checkbox"/> A The biosphere and the geosphere | <input type="checkbox"/> B The geosphere and the hydrosphere |
| <input type="checkbox"/> C The hydrosphere and atmosphere | <input type="checkbox"/> D The atmosphere and the geosphere |

9.



What two spheres are represented by the water and heron?

- | | |
|---|--|
| <input type="checkbox"/> A atmosphere and biosphere | <input type="checkbox"/> B hydrosphere and biosphere |
| <input type="checkbox"/> C atmosphere and hydrosphere | <input type="checkbox"/> D biosphere and geosphere |

10. Wind can carry seeds to new places, so more plants can grow.


- | | |
|--|---|
| <input type="checkbox"/> A Hydrosphere and Biosphere | <input type="checkbox"/> B Atmosphere and Geosphere |
| <input type="checkbox"/> C Geosphere and Biosphere | <input type="checkbox"/> D Atmosphere and Biosphere |

11. Jessica is at the beach watching ocean waves. Which of these parts of the Earth system interacts with the hydrosphere to produce waves at the beach? (SC.6.E.7.4)

<input type="checkbox"/> A Biosphere	<input type="checkbox"/> B Atmosphere
<input type="checkbox"/> C Cryosphere	<input type="checkbox"/> D Geosphere

12. Bio =

<input type="checkbox"/> A Earth	<input type="checkbox"/> B Life
<input type="checkbox"/> C Sphere	<input type="checkbox"/> D Water

13.  This sphere includes the continents, the ocean floor, all the rocks on the surface, and all of the sand in the deserts.

<input type="checkbox"/> A Geosphere	<input type="checkbox"/> B Hydrosphere
<input type="checkbox"/> C Atmosphere	<input type="checkbox"/> D Biosphere

14.  Body of air surrounding our planet.

<input type="checkbox"/> A Biosphere	<input type="checkbox"/> B Atmosphere
<input type="checkbox"/> C Hydrosphere	<input type="checkbox"/> D Geosphere

15. An example of the biosphere would be

<input type="checkbox"/> A Glacier	<input type="checkbox"/> B Mountain
<input type="checkbox"/> C Wind	<input type="checkbox"/> D Penguin

16. Rivers, lakes and streams are part of the...

<input type="checkbox"/> A atmosphere	<input type="checkbox"/> B hydrosphere
<input type="checkbox"/> C geosphere	<input type="checkbox"/> D biosphere

17.



The Four Spheres of Earth

- ☐ A don't affect human life
- ☐ B exist on Venus and Mars
- ☐ C are all connected
- ☐ D have nothing to do with one another

18. A group of parts that work together as a whole

- ☐ A energy
- ☐ B system

19. Which sentence best describes the relationship between Earth's systems?

- ☐ A The cheetah will produce offspring.
- ☐ B Earth's systems are independent from one another.
- ☐ C Together, these systems support all plant and animal life.
- ☐ D Earth is not just a sphere with life on top.

20. An example from the atmosphere would be

- ☐ A Beach
- ☐ B Volcano
- ☐ C Ocean
- ☐ D Cloud

21.



A thunderstorm is a connection between:

- ☐ A Hydrosphere-Biosphere
- ☐ B Hydrosphere-Geosphere
- ☐ C Biosphere-Atmosphere
- ☐ D Atmosphere-Hydrosphere

22. A bear living in a cave. Which part is the BIOSPHERE?

- ☐ A bear
- ☐ B cave

23. Wind blowing down a tree. Which part is the atmosphere?

- ☐ A tree ☐ B wind

24. Which sphere is NOT represented: A rain storm with strong wind blows down a tree.

- ☐ A Geosphere ☐ B Biosphere
☐ C Hydrosphere ☐ D Atmosphere

25. Which one is an example of Atmosphere and Geosphere?

- ☐ A A volcano erupts adding Carbon Dioxide to the air. ☐ B Air temperature impacts the evaporation of lakes and streams.
☐ C Plants use essential elements such as water, carbon and nitrogen from the soil.

26. Which of these are an example of Atmosphere and Biosphere interacting:

- ☐ A Wind can carry seeds to new places,, so more plants can grow. ☐ B Bacteria and algae convert Nitrogen from the air into a form that is usable by plants and animals.
☐ C all the above ☐ D The survival organisms is impacted by the air temperature.