

Sphere Interactions We Do

List the spheres that are interacting in each example:

1. You get caught in the rain.

2. Hail damages a sugar cane crop.

3. Air heated by the sand rises.

4. A flash flood moves down a hill.

5. Penguins live on the ice shelves in Antarctica.

6. Create an example for: Atmosphere & Cryosphere Interacting

7. Create an example for: Geosphere and Hydrosphere Interacting

Weather or Climate? "W" for Weather, "C" for Climate

8. _____ It rained at 3 o'clock today.

9. _____ The humidity is making my hair frizzy.

10. _____ The hurricane is supposed to hit Jax Beach tomorrow.

11. _____ Arizona is always so dry, no wonder there's a desert.

12. _____ The average rainfall from 1980-2010 was 52.9 inches.

13. _____ Downtown was so foggy, I could barely find my way to school.

14. _____ Michigan was hit by a freak storm that laid down 10 inches of snow.

15. How would the Earth be different if I did not have an Ozone Layer?

16. Florida is very humid while other areas, such as Las Vegas, Nevada are not. What causes this difference in humidity between us and Las Vegas?

EXIT TICKET (Closing): How do all of the Earth's spheres interact in order to influence weather and climate?

Sphere Interactions ESSENTIAL QUESTION:

EARTH'S SPHERES

ATMOSPHERE: Layers of _____ that surrounds the earth's surface.

- Mixture of:
 - 78% _____
 - 21% _____
 - 1% _____

LAYERS OF THE ATMOSPHERE:

- **Troposphere:** The gaseous layer closest to the _____. We live here.
- **Stratosphere:** Where the _____ layer protects us from harmful _____.
- **Mesosphere:** _____ Middle Layer
- **Thermosphere:** Hot _____ layer, heated by the _____

HYDROSPHERE: All of the _____ water on Earth.

- _____% of the earth is covered by water

BIOSPHERE: All _____ things on Earth

- Humans _____ with all spheres in different ways

GEOSPHERE: The soil, _____, and _____ at the surface of the Earth.

CYROSPHERE: All of the frozen _____ on Earth.

- _____, ice shelves, _____, icebergs, _____

SPHERE INTERACTIONS

These 5 spheres are _____. You can't make a change to one without _____ one or more of the others.

WEATHER VS CLIMATE

WEATHER: The _____ term condition of the atmosphere for a certain location. Can change _____.

CLIMATE: The conditions of an area over a _____ period of time.

- Florida is _____ subtropical and _____.