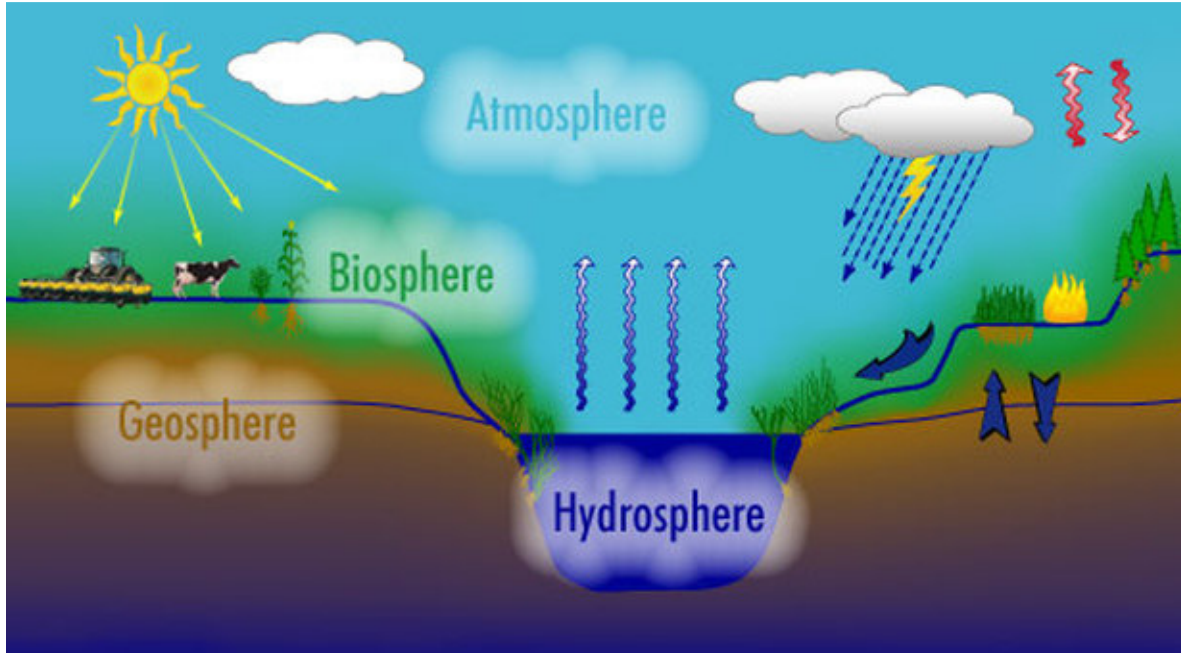


Name: _____
Pd: _____ Date: _____

Science 9 Spheres of the Earth/Bias in Science

Natural processes move matter in continuous cycles from the living (_____) and non-living (_____) parts of the environment and back again.

At any time, matter occupies one of the Earth's four spheres or systems:



_____ = the solid parts of the earth

Ex:

_____ = the thin layer of the air, land and water on or near the Earth's surface

in which all living things on Earth exist. Ex:

_____ = the water found on/in/above the surface of the earth.

Ex:

_____ = layers of gases that extend above the Earth's surface. The atmosphere is

78% = _____, 21% = _____, 0.9% _____

And trace amounts _____

YOUTUBE videos: Crash Course Kids, the Four Spheres:

<https://www.youtube.com/watch?v=VMxjzWHbyFM>

https://www.youtube.com/watch?v=UXh_7wbnS3A

INTERCONNECTEDNESS and Sustainability:

The atmosphere interacts with the hydrosphere, resulting in _____

The hydrosphere interacts with the geosphere when flood waters wash away _____

The biosphere interacts with the geosphere when plant roots break apart _____ (erosion)

1. Which of Earth's spheres are affected by an ice storm?
2. What two spheres interact when a landslide occurs?
3. Which of the Earth's spheres are involved when liquid water expands and freezes and causes small cracks to form in rocks?
4. Explain the term "Ecosystem Services" and give one example of it. Identify which of the four spheres it affects and how humans benefit from the service.

BIAS and information:

Define Bias:

Suggest the bias when someone refers to Alberta's northern shale oil resources as:

- a. "Tar Sands"=
- b. "Oil Sands"=

Why is it important to be able to recognize bias when gathering information about a topic or an issue?