

Earth's Major Components

EQ: Explain how all components work together to support life.

(Q1)

The Earth's Life-Support System Has Four Major Components

1. **Atmosphere** - A thin spherical envelope of gases surrounding the earth's surface.
2. **Hydrosphere** - All the water on or near the earth's surface (liquid, ice, water vapor).

(Q2)

- Saltwater ~71%
 - Freshwater ~2%
3. **Geosphere** - Consists of the earth's hot core, thick mantle, and outer crust.
 4. **Biosphere** - On Earth where life exists.

Earth's Major Components (Cont.)

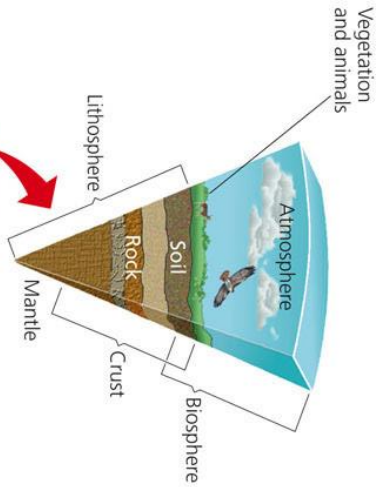
(Q3)

- In organisms, more than 95% of the body is made up of just four elements.
 - Oxygen, Carbon, Hydrogen, and Nitrogen
- These elements are passed from one organism to another and from one part of the biosphere to another through biogeochemical cycles.
 - The Water Cycle
 - The Carbon Cycle
 - The Nitrogen Cycle

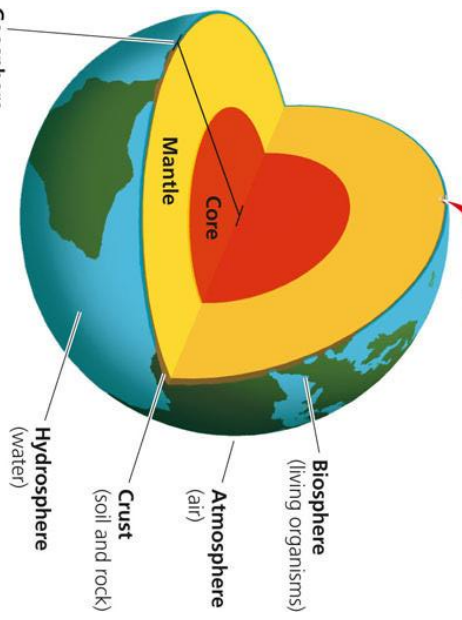
Earths Major Components (Cont.)

(Q4)

- Matter and energy move back and forth between the different earth spheres, and the different spheres interact every day, all around you.
- Matter moves through biogeochemical cycles.
 - Same molecules get moved from place to place
- Energy is like a balance
 - Energy in= Energy out



Vegetation and animals



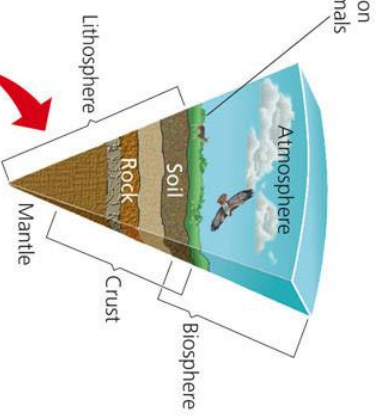
Geosphere
(crust, mantle, core)

Hydrosphere
(water)

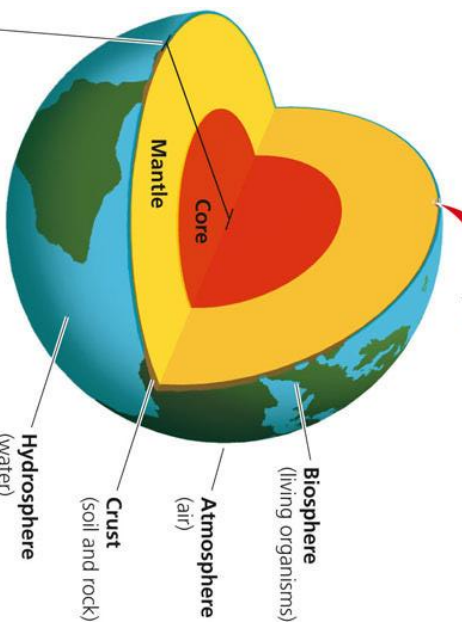
Biosphere
(living organisms)

Atmosphere
(air)

Crust
(soil and rock)



Vegetation and animals



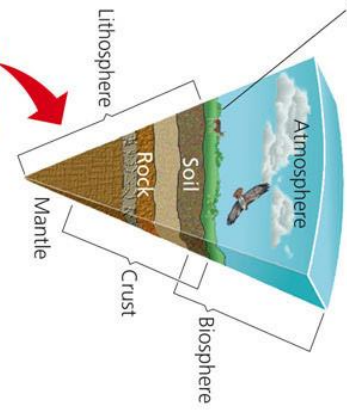
Geosphere
(crust, mantle, core)

Hydrosphere
(water)

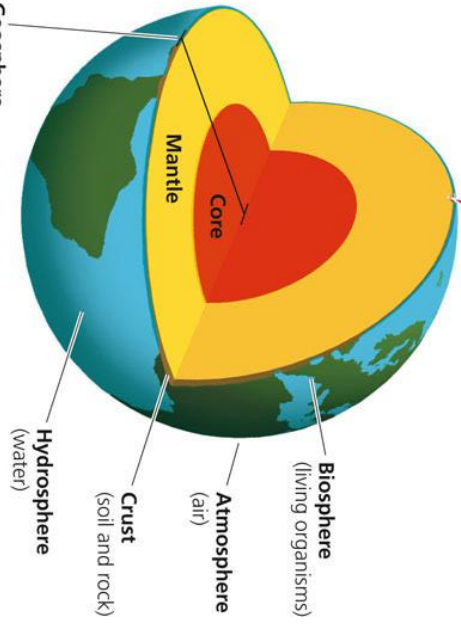
Biosphere
(living organisms)

Atmosphere
(air)

Crust
(soil and rock)



Vegetation and animals



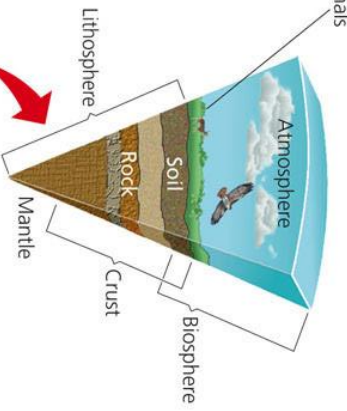
Geosphere
(crust, mantle, core)

Hydrosphere
(water)

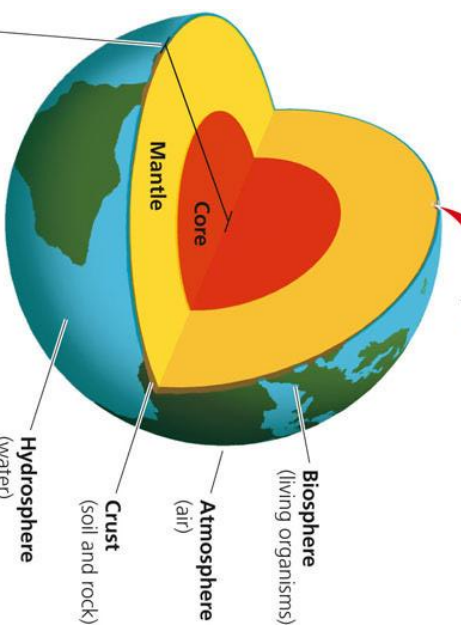
Biosphere
(living organisms)

Atmosphere
(air)

Crust
(soil and rock)



Vegetation and animals



Geosphere
(crust, mantle, core)

Hydrosphere
(water)

Biosphere
(living organisms)

Atmosphere
(air)

Crust
(soil and rock)