

Recycling in the Biosphere

~Unlike the one way flow of energy, matter is recycled
within and between ecosystem.

Biological Processes

Biological processes consist of any and all activities performed by living organisms . The process includes eating, breathing, burning food, waste products.

~ Ex. Transpiration of plants giving off water.



Geological Processes

Geological Processes include volcanic eruptions , the formation and breakdown of rock, and major movements of matter within and below the surface of the earth.

~Ex. Volcanic Eruptions

Chemical and Physical Processes

Chemical and Physical processes include the formation of clouds and precipitation , the flow of running water and the action of lightning

~Ex. Stream of water

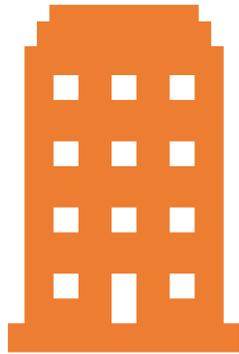


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~Ex. Lightning Strikes

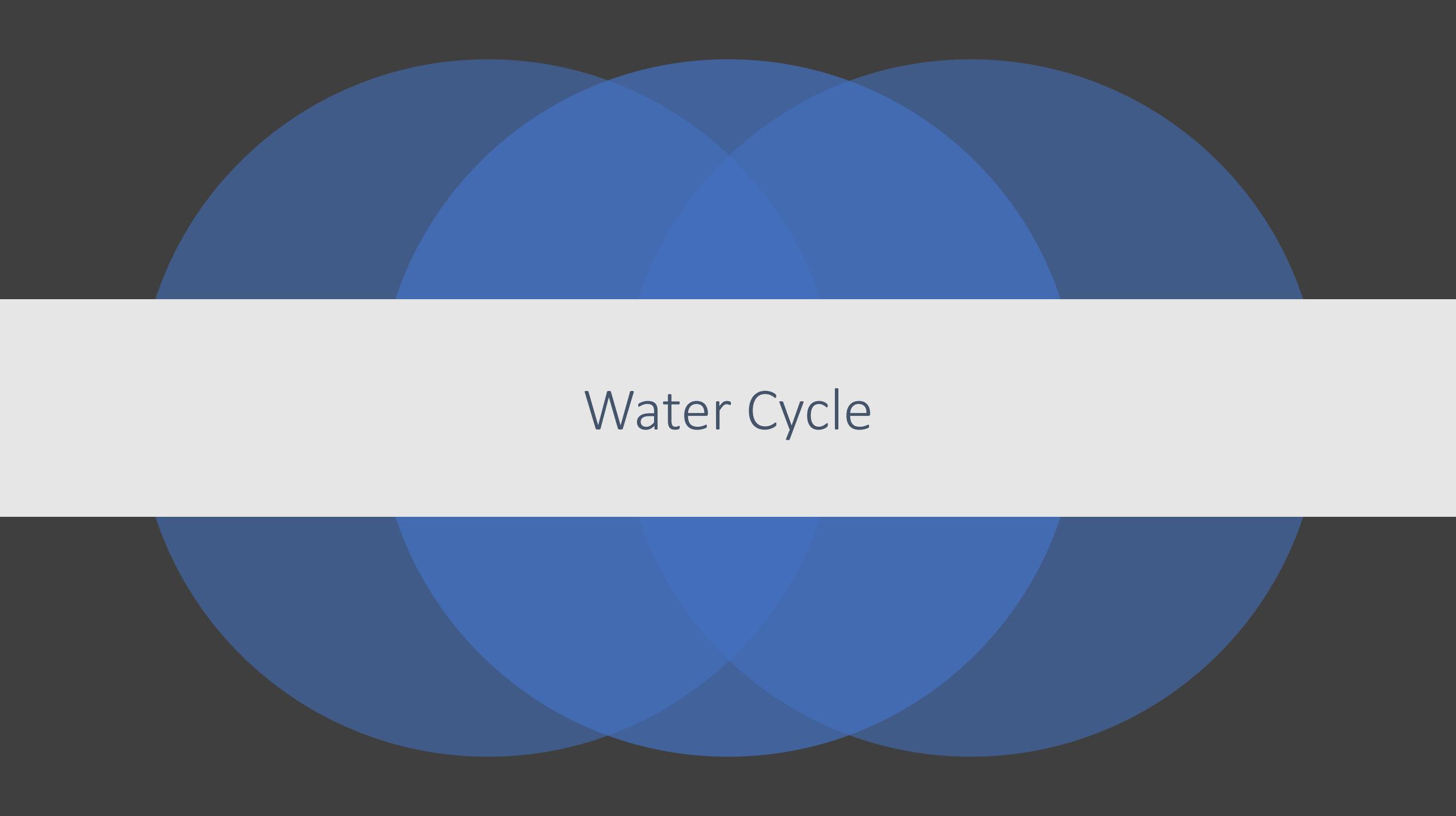
Human Activity



Human activities that affect cycles of matter on a global scale include the mining and burning of fossil fuels, the clearing of land for building and farming, the burning of forests and the manufacture and use of fertilizers.



~Ex. Land clearing for Buildings

The image features a dark gray background with a central white horizontal band. Above and below this band are three overlapping circles in shades of blue, creating a decorative, wave-like pattern. The text 'Water Cycle' is centered within the white band.

Water Cycle

Definitions

Evaporation~ he process of turning from liquid into vapor.

Transpiration~(of a plant or leaf) the exhalation of water vapor through the stomata.

Condensation~ water which collects as droplets on a cold surface when humid air is in contact with it.

Precipitation~ the action or process of precipitating a substance from a solution.

Runoff~ the draining away of water (or substances carried in it) from the surface of an area of land, a building or structure,

Seepage~ the slow escape of a liquid or gas through porous material or small holes.

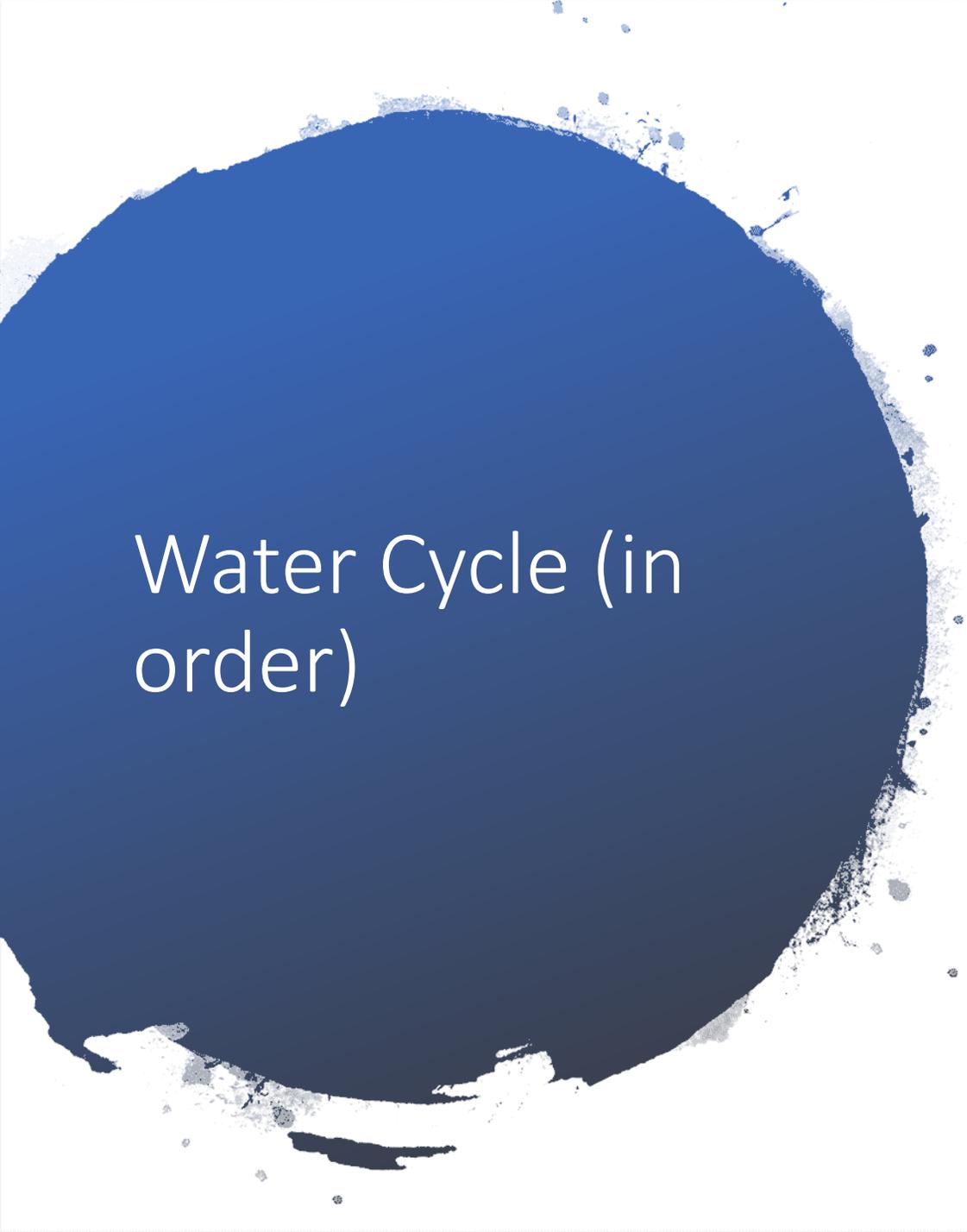
Root uptake ~the **process plants use to take water from the soil, or other medium**, and deliver it to the rest of the plant's structure.

Ways Water moves between area of the atmosphere.

Oceans

Atmosphere

Land



Water Cycle (in order)

Evaporation

Transpiration

Condensation

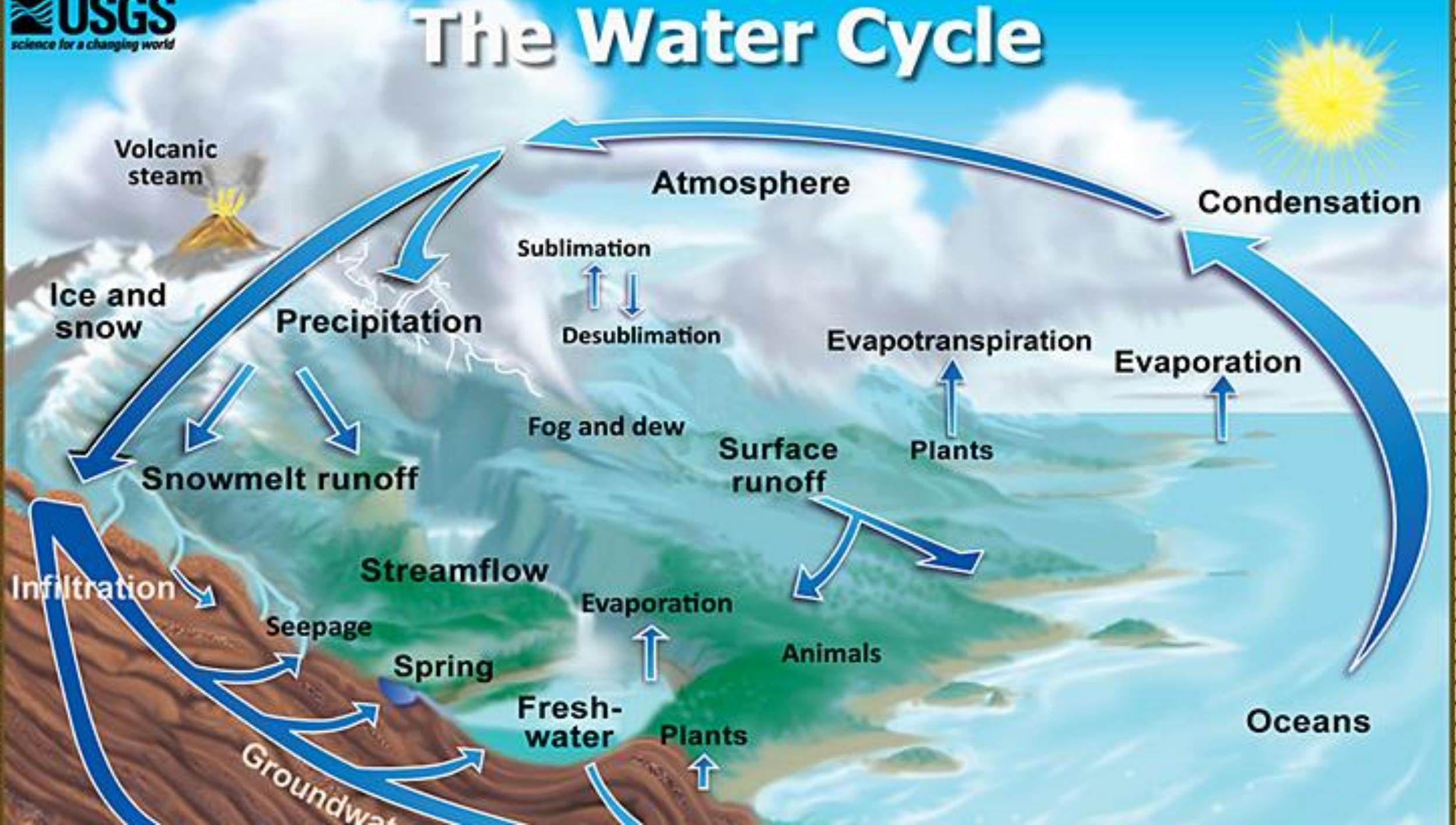
Precipitation

Runoff

Seepage

Root Uptake

The Water Cycle



Forms of Precipitation

- Rain
- Snow
- Sleet
- Hail



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Two ways water can ENTER the atmosphere

- Transpiration
- Evaporation