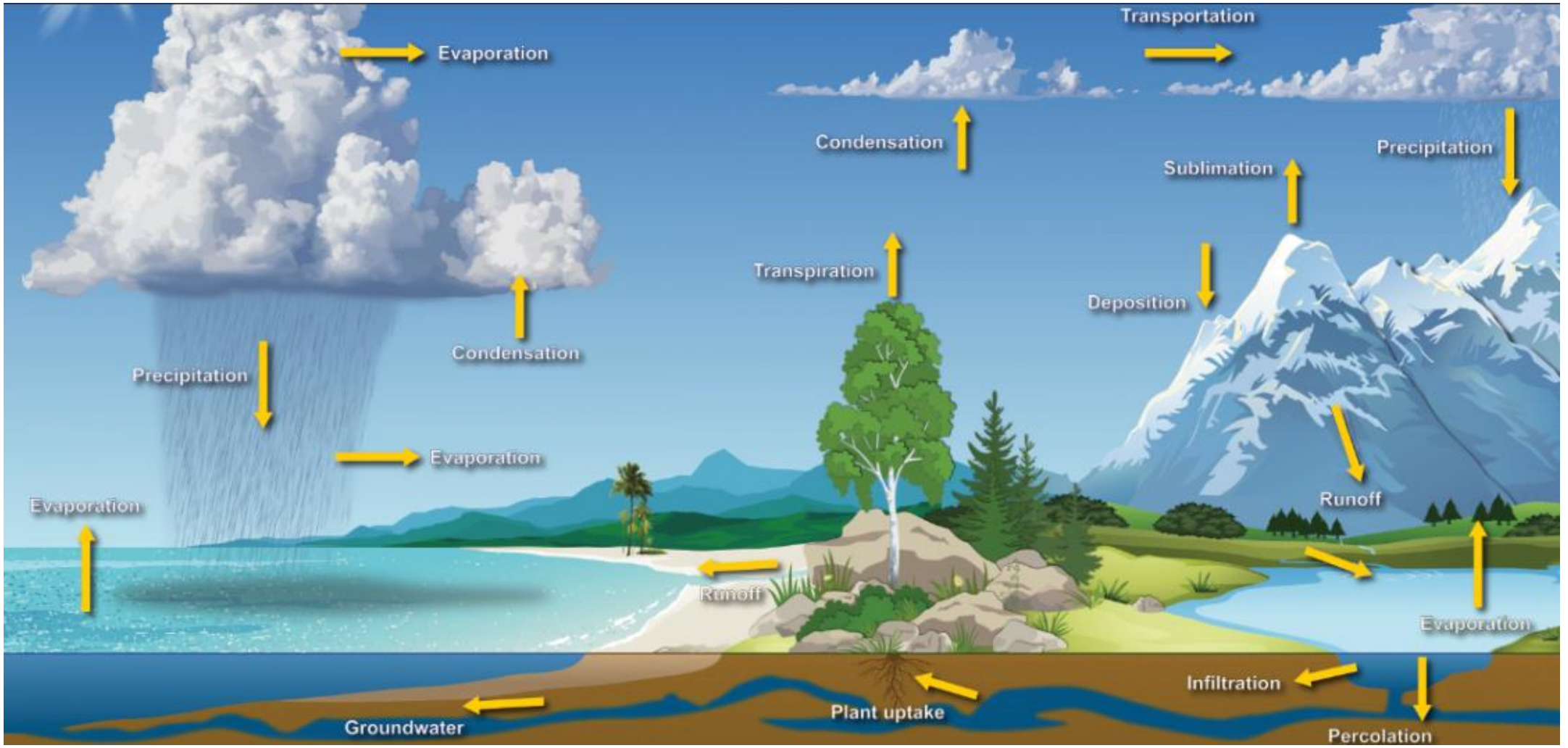
DISTRIBUTION OF WATER

WATER CYCLE

- The water cycle is the movement of water between the atmosphere, land, ocean and living things.
- Due to the constant movement of water, the amount of water on earth has remained the same for millions of years.
- How are evaporation and transpiration related to the movement of underground water?

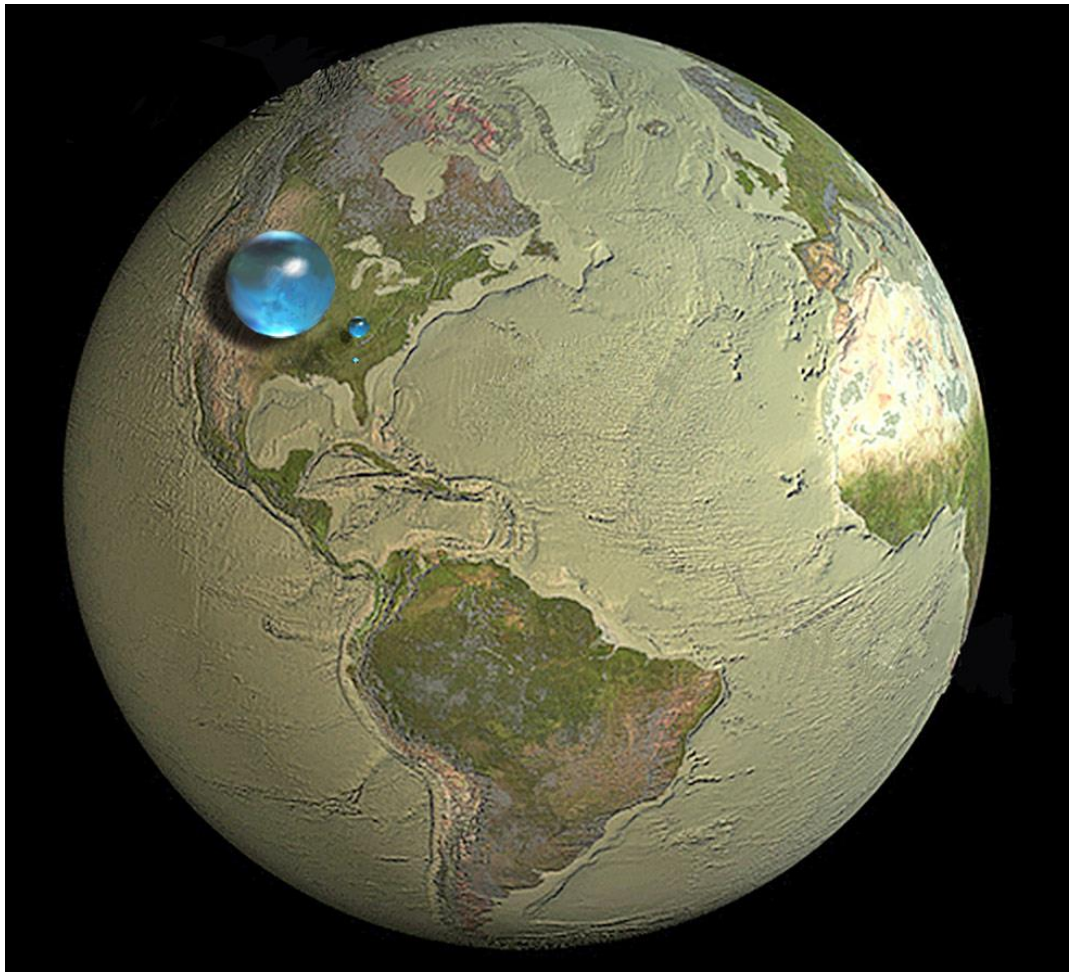
WATER CYCLE DIAGRAM



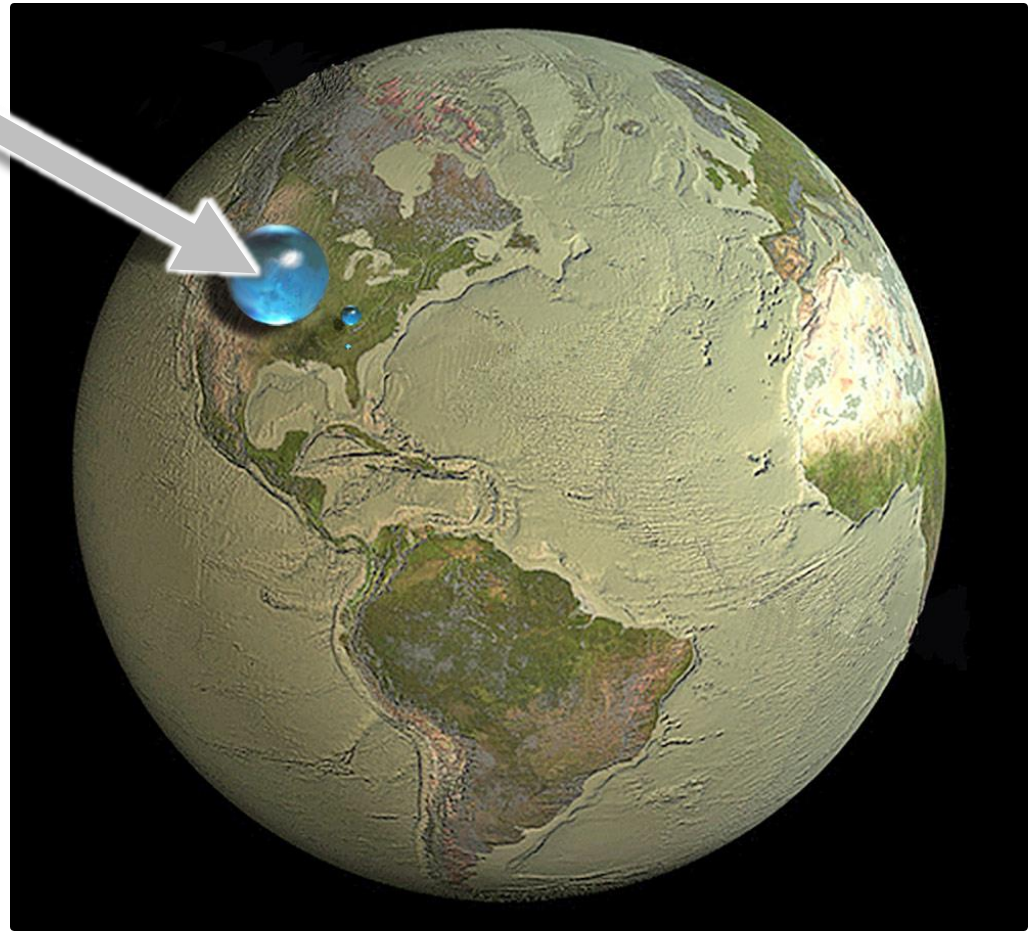
The blue spheres represent the relative amounts of Earth's water in comparison to the size of the Earth.

Are you surprised that these water spheres look so small? They are only small in relation to the size of the Earth.

Overall, it shows that in comparison to the volume of the globe the amount of water on the planet is very small.



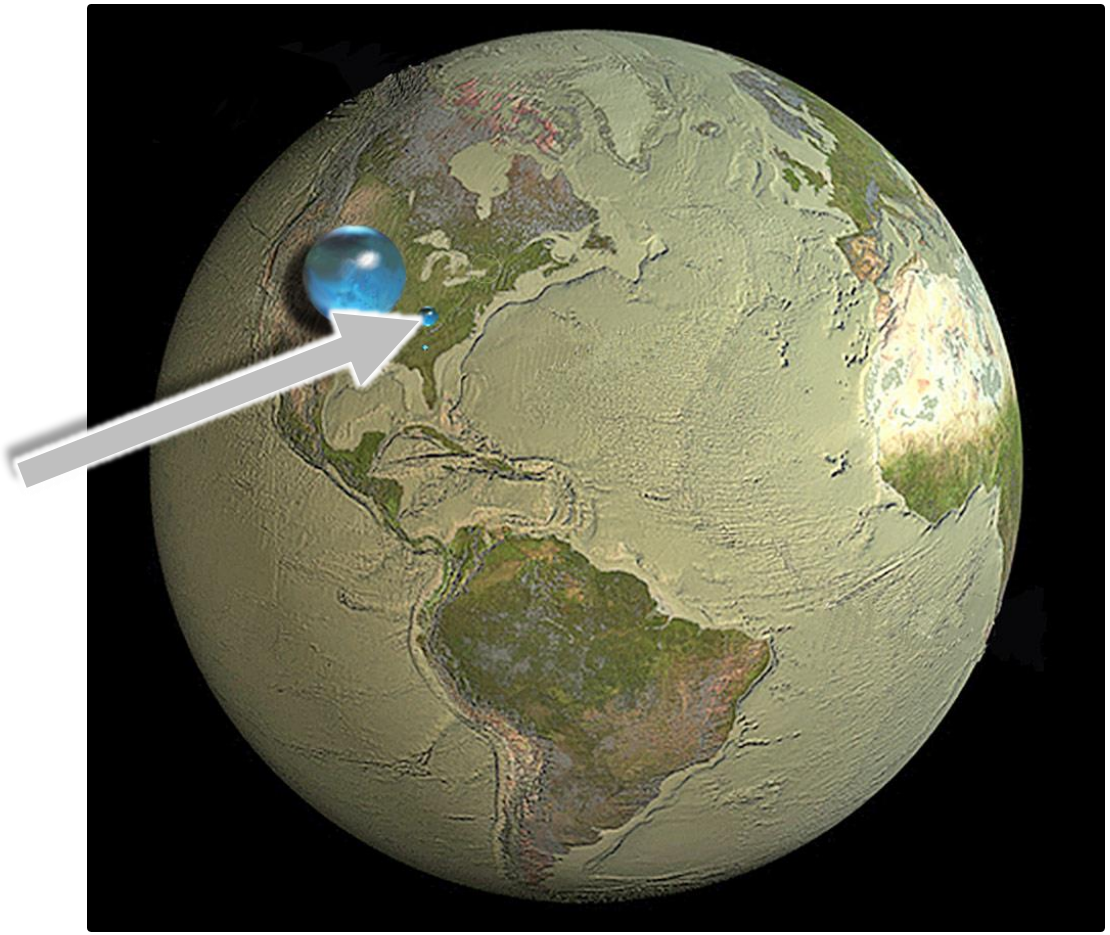
The largest sphere represents all of Earth's water.



The sphere includes all the water in the oceans, ice caps, lakes, and rivers, as well as groundwater, atmospheric water, and even the water in you, your dog, and your tomato plant.

How much of the total water is fresh water, which people and many other life forms need to survive?

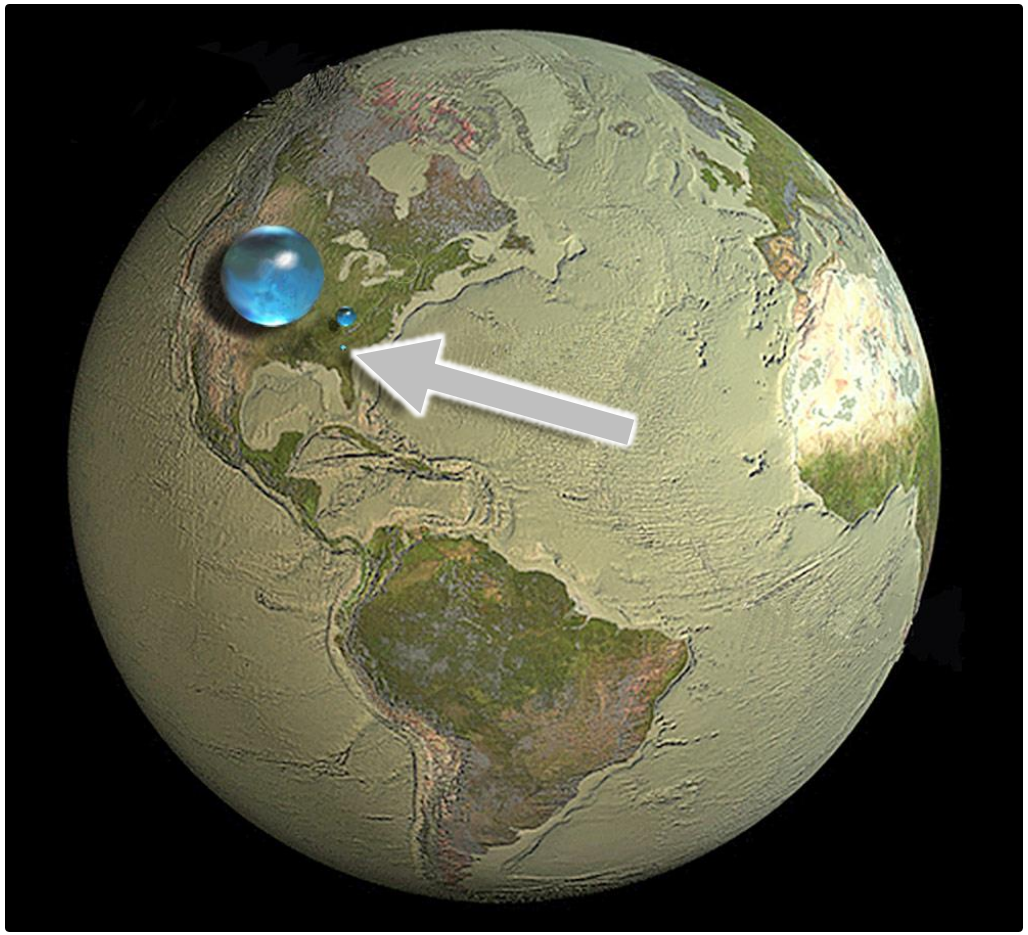
The blue sphere over Kentucky represents the world's liquid fresh water (groundwater, lakes, swamp water, and rivers).



Do you see the "tiny" bubble over Atlanta, Georgia?

That one represents fresh water in all the lakes and rivers on the planet.

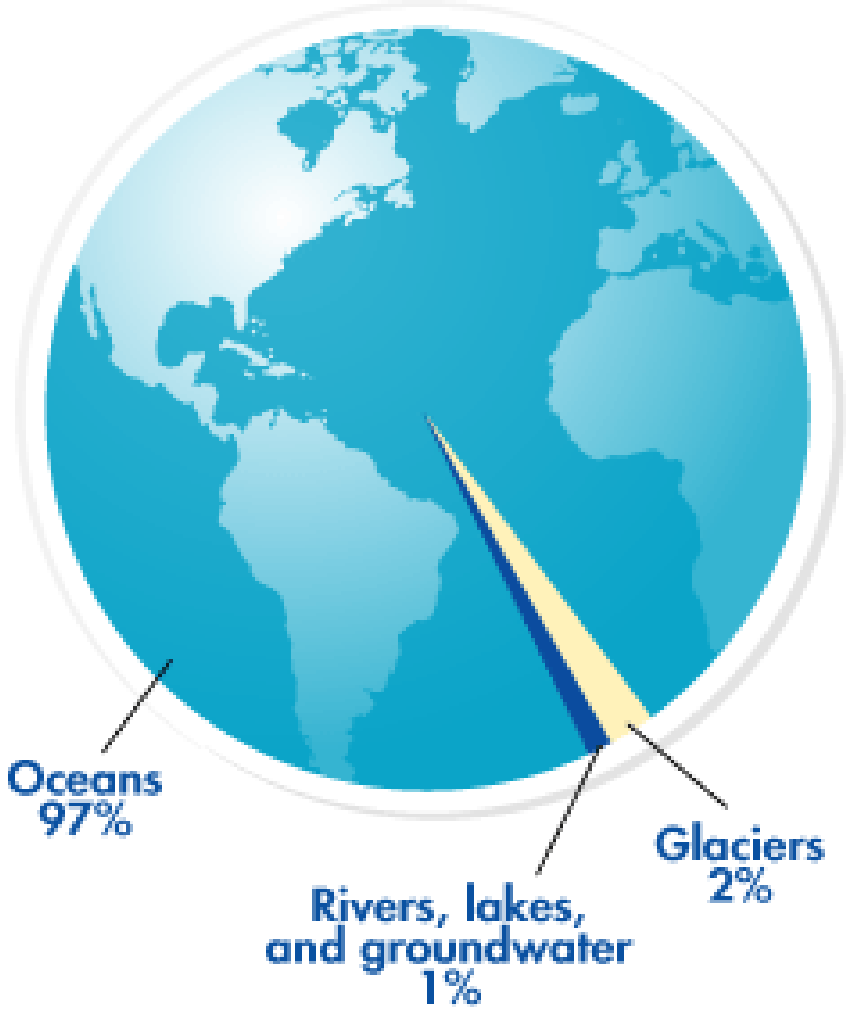
Most of the water people and life on earth need every day comes from these surface-water sources.



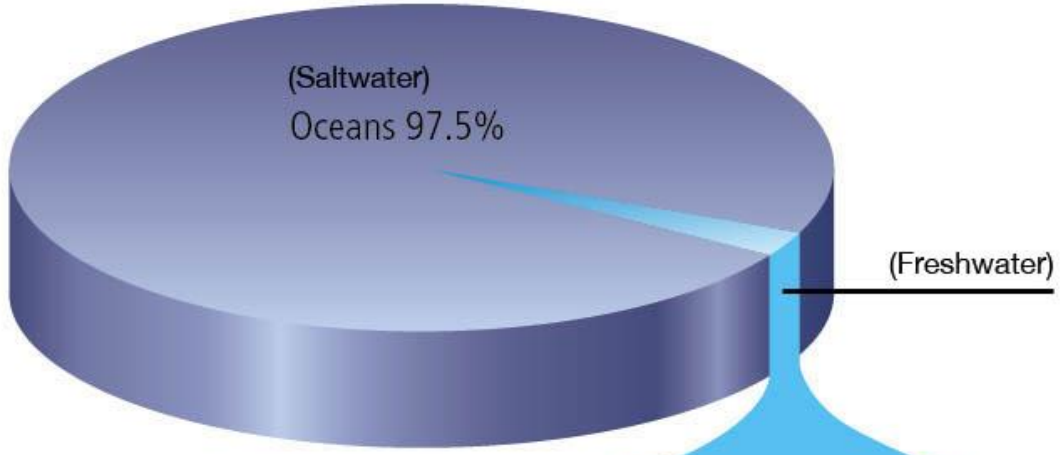
WATER ON THE EARTH

- About 71% of the earth's surface is covered with water.
- Of the total volume of water on Earth:
  - 97% is saltwater
  - 2% is freshwater frozen in ice caps and glaciers
  - 1% is fresh water in lakes and streams, groundwater, and water vapor in the atmosphere
- In general, most of the earth's water is located in the oceans as saltwater. Most of the freshwater on Earth is located in glaciers and ice caps. Lesser amounts are found in atmospheric moisture, rivers, lakes, streams, and groundwater.
- Most of the freshwater on Earth is located in glaciers and ice caps.

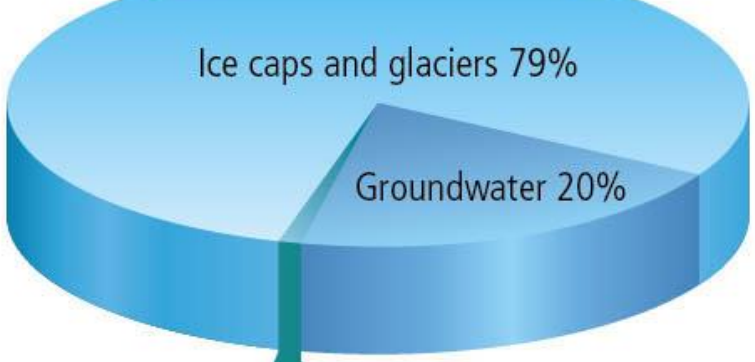
Water of the World



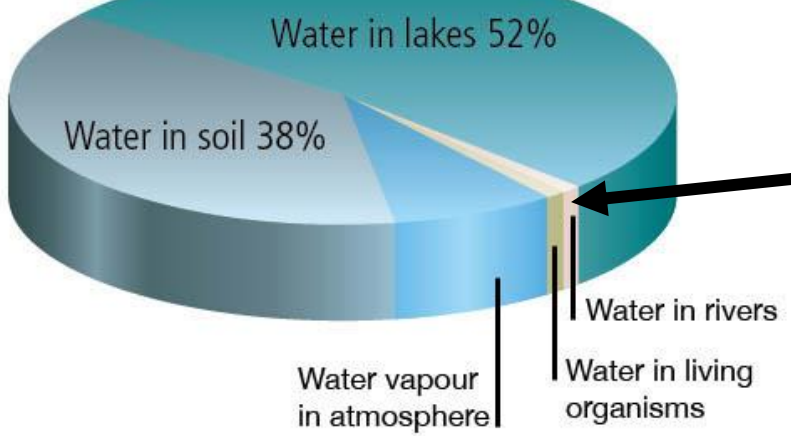
This pie chart represents all the water on earth:
- 97.5% saltwater
- 2.5% freshwater



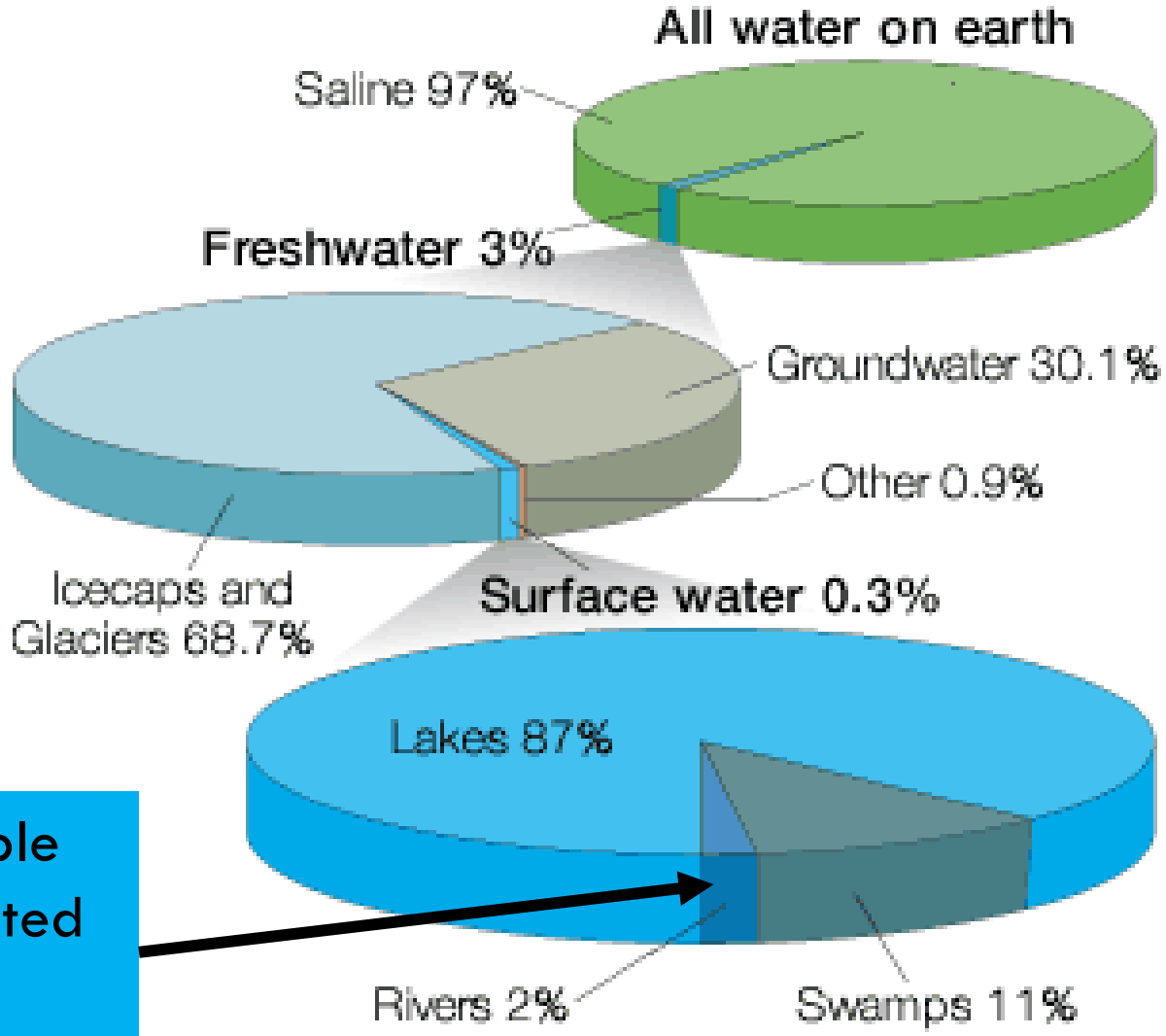
This pie chart represents all the fresh water on earth:
- 79% ice caps and glaciers
- 20% groundwater
- 1% AVAILABLE water



This pie chart represents all the available water on earth

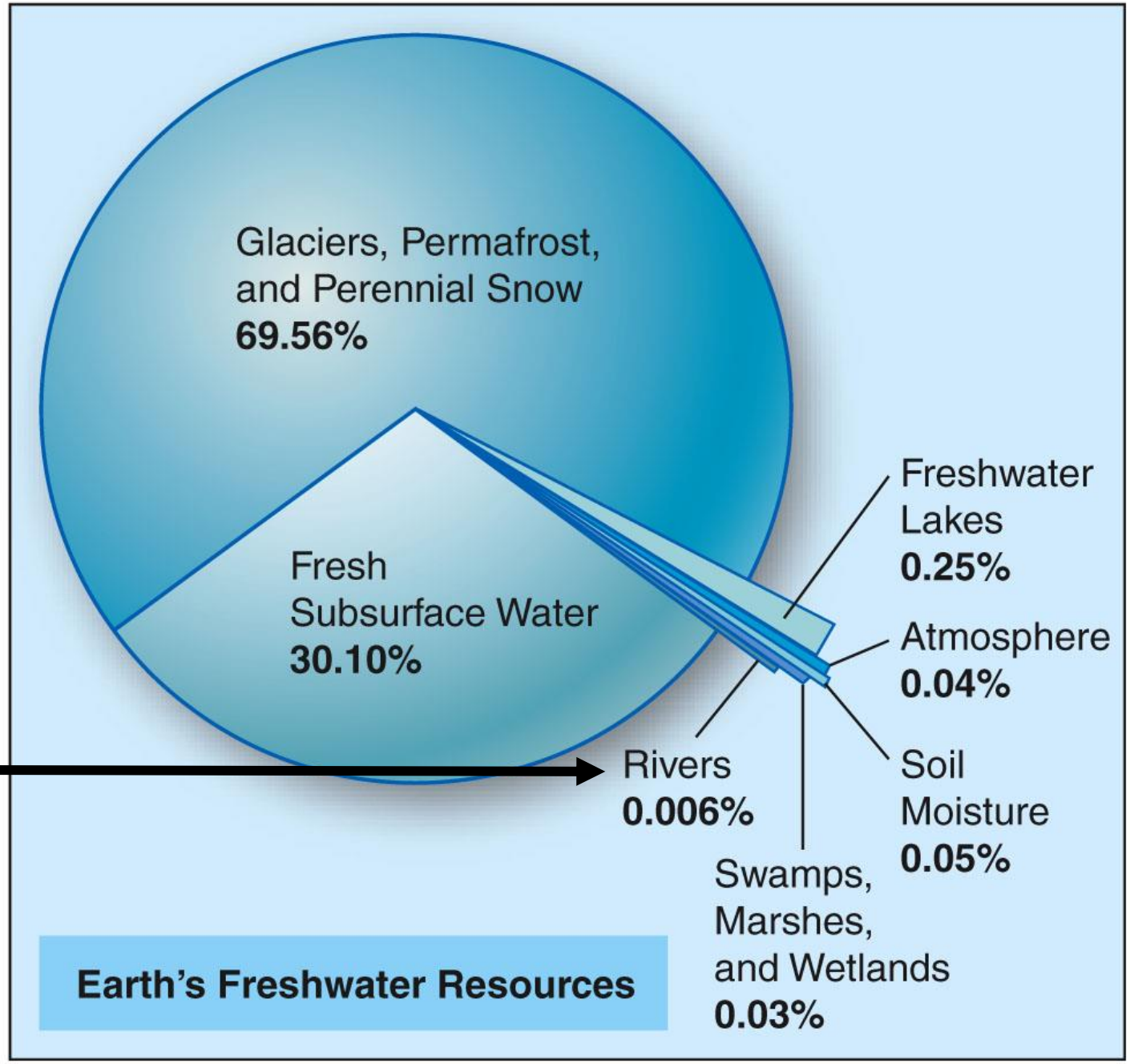


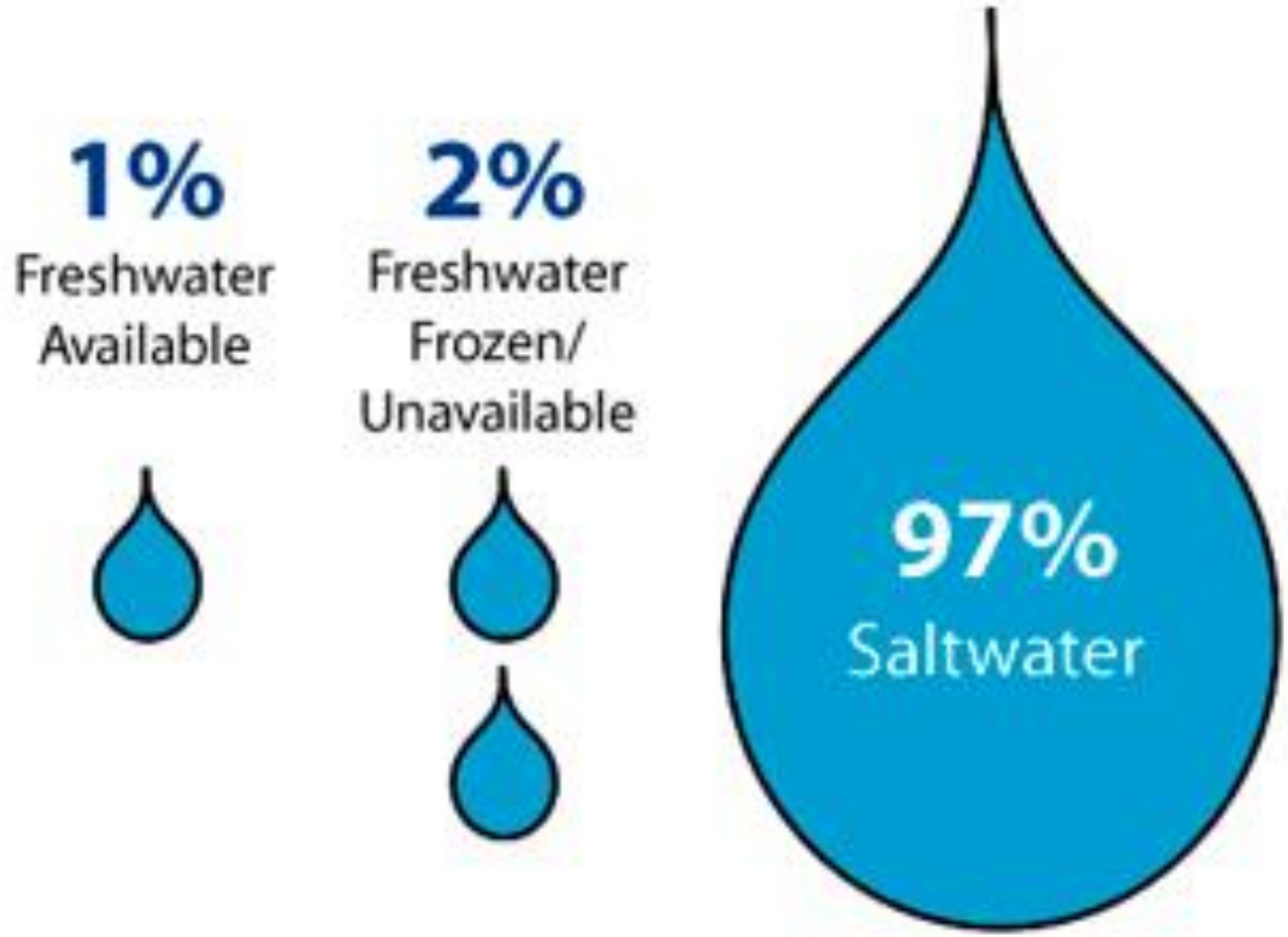
Most available water is located in rivers and streams



Most available water is located in rivers and streams

Most available water is located in rivers and streams




1%
Freshwater
Available
2%
Freshwater
Frozen/
Unavailable
97%
Saltwater

WATER ON THE EARTH

- Water is not evenly distributed, and most of it is unsuitable for drinking.
- We use less than 1% of the water on Earth for drinking and personal hygiene. We also use this fresh water for agriculture, fisheries, transportation, heating and cooling, manufacturing, and many other purposes.
- Unless we use our freshwater supply wisely, rivers, lakes and groundwater can be depleted or polluted, becoming unusable or unsuitable for life.

Label the following images as representations of which of the following: Glaciers/Icecaps, Groundwater, Lakes/Rivers, Saltwater on Earth