## Water on Earth

## Who needs water?

- All living things need water
- Human uses include:
- Drinking water
- Recreation

- Food
- Agriculture
- Hydroelectric Energy



## What is the distribution of water

## on Earth?

- Most of Earth's water is


## Where is Earth's Water?

# salt water-96.5\% <br> - Only 2.5\% is fresh water. 

## How is Earth's fresh water divided?

- Most fresh water on Earth is found as ice - 68.7\%
- Groundwater - 30.1\%
- Lakes - o.26\%
- Rivers - o.oo6\%
- Water vapor - 0.04\%



## How does water move on Earth?

- Water moves on Earth through the continuous process of the water cycle.
- Water Cycle - the circulation of Earth's water



## Evaporation/Transpiration

(liquid $\rightarrow$ gas)

- Evaporation: water from bodies of water is turned to vapor and rises into the atmosphere
- Transpiration: water from plants is turned into water vapor \& rises into the atmosphere


## Condensation

Gas $\rightarrow$ liquid. Where warm and cold air collide and form water droplets


- Water droplets in the clouds become too heavy and begin to fall in the form of precipitation (snow, rain, sleet, hail)
- A decrease in precipitation decreases the amount of infiltration of water into the ground
- Infiltration - process by which water on the ground surface enters the soil
- Infiltration recharges groundwater supplies


Infiltration Capacity (depth/time)

## Groundwater Flow and Discharge

- Vast amounts of water are unseen underground.
- This water can move through the water cycle several ways:

1. Transpiration by plants
2. Move into surface water like streams
3. Move or storage in the ground

