

A. Water Cycle:Water moves continuously through the earth and atmosphere
* Where is water found on the earth?
Liquid Water: The earth is unique because it has liquid water on it's surface
but not all liquid water is drinkable!!!
Oceans (salt water) <u>97%</u>
Freshwater <u>3%</u>
Ice/Snow <u>2%</u>
 Lakes, streams, rivers, and underground <u>1%</u>
B. Processes that make up the water cycle:
Evaporation:Liquid water turns into gas water
 The <u>sun's energy</u> heats up <u>surface</u> water in rivers, lakes, and
oceans causing water to <u>evaporate</u> .
 Clean Water? - When water turns from a <u>liquid</u> to a <u>gas</u>
impurities are left behind. Ex; <u>distilled water</u>
2. Transpiration: Water <u>Evaporates</u>
from the leaves of plants.
water travels through plant
3. Plant Uptake: Water is Absorbed from

the ground by the roots.

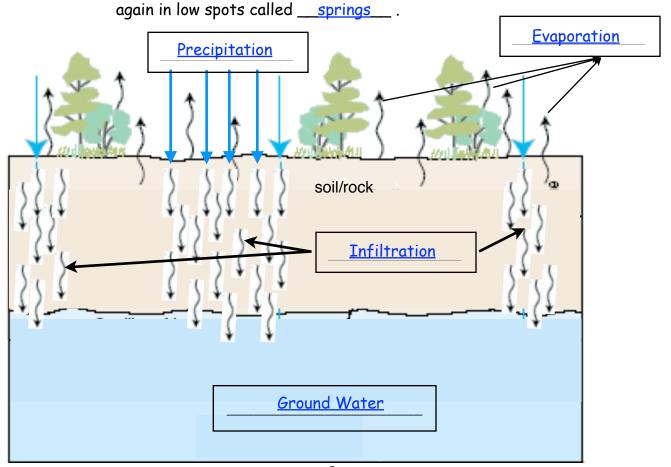
4. Condensation/Clouds: As gas water cools, it turns into <u>liquid</u> water to form
_clouds
-Is it clean? -Water condenses into <u>droplets</u> only when there
are small <u>dust particles</u> in the air around which the
droplet can form.
a. Fog: a cloud at or near the Earth's surface.
b. Dew: Water droplets <u>condenses</u> from the air onto <u>cool</u> surfaces.
5. Transportation: Clouds and fog are pushed by <u>wind</u> .
6. Precipitation: Water moves from the <u>clouds</u> back down to the <u>surface</u> of
the Earth.
- Heavy Water: When droplets of water in <u>clouds</u> get too big
and <u>heavy</u> , they <u>fall</u> .
-Forms of Precipitation: Rain , Sleet , Hail , Snow
* Acid Rain: Factories, cars, and homes putpollution_ in the air
that mixes with the <u>clouds</u> causing rain to be <u>acidic</u> .
*Impact:
 plant growth and health decreases
- <u>decreased fish populations</u>
- buildings erode_
 people/animals aettina sick

7. Surface Runoff: Water moves <u>down hill</u> into <u>streams</u>, <u>rivers</u>,



<u>ponds</u>, and <u>lakes</u>.

- a. Water Shed: The land area from which the water drains to a given point.
- •Small streams flow into <u>larger</u> streams, then into rivers, and eventually the water flows into the <u>ocean</u>.
- 8. **Infiltration**: Water moves (soaks) into the <u>ground</u> through the process of <u>infiltration</u>.
 - *Clean Water? -as water <u>infiltrates</u> through the soil and rock, many <u>impurities</u> are <u>filtered out</u>.
- 9. Ground Water: Water that remains underground is called <u>ground</u> water.
 - *Subsurface Runoff: Ground water moves slowly and can reach the surface



10. Aquifers: An <u>underground</u> layer of <u>water</u> within <u>permeable</u> rock, gravel, silt, clay, and/or sand where <u>ground water</u> is naturally stored.

Transpiration by vegetation

