## Water Cycle

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) _97\%
Freshwater _3\%_

- Ice/Snow _2\%
- Lakes, streams, rivers, and underground _1\%
B. Processes that make up the water cycle:

1. Evaporation: $\qquad$ Liquid water turns into gas water. $\qquad$
$\qquad$ _.

- The $\qquad$ sun's energy heats up _surface water in rivers, lakes, and oceans causing water to $\qquad$ evaporate .
- Clean Water? -When water turns from a _liquid to a gas $\qquad$ ,
impurities are left behind. Ex; distilled water


4. Condensation/Clouds: As gas water cools, it turns into $\qquad$ liquid water to form clouds $\qquad$ .
-Is it clean? -Water condenses into ___droplets _ only when there are small __dust particles__ in the air around which the droplet can form.
a. Fog: a cloud at or near the Earth's surface. $\qquad$
b. Dew: Water droplets $\qquad$ from the air onto $\qquad$ surfaces.
5. Transportation: Clouds and fog are pushed by $\qquad$ wind _. .
6. Precipitation: Water moves from the _clouds__ back down to the _surface_ of
 the Earth.

- Heavy Water: When droplets of water in__clouds__ get too big and $\qquad$ heavy $\qquad$ they $\qquad$ fall .
-Forms of Precipitation: __Rain___ Sleet__ Hail__ Snow__

* Acid Rain: Factories, cars, and homes put $\qquad$ pollution in the air that mixes with the $\qquad$ clouds causing rain to be $\qquad$ acidic ـ.


## * Impact:

- ___ plant growth and health decreases
- ___ decreased fish populations
- buildings erode
$\qquad$

$\qquad$ into $\qquad$ streams $\qquad$ rivers ,
 __ponds, and _lakes.
a. Water Shed: The land area from which the water drains to a given point.
-Small streams flow into __larger__ streams, then into rivers, and eventually the water flows into the $\qquad$ ocean -.

8. Infiltration: Water moves (soaks) into the $\qquad$ ground through the process of
$\qquad$ infiltration -.

* Clean Water? -as water __infiltrates___ through the soil and rock, many _impurities__ are __filtered out__.

9. Ground Water: Water that remains underground is called ground water.
*Subsurface Runoff: Ground water moves slowly and can reach the surface again in low spots called $\qquad$ springs .

10. Aquifers: An $\qquad$ underground layer of $\qquad$ water within $\qquad$ permeable rock, gravel, silt, clay, and/or sand where $\qquad$ is naturally
stored.
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