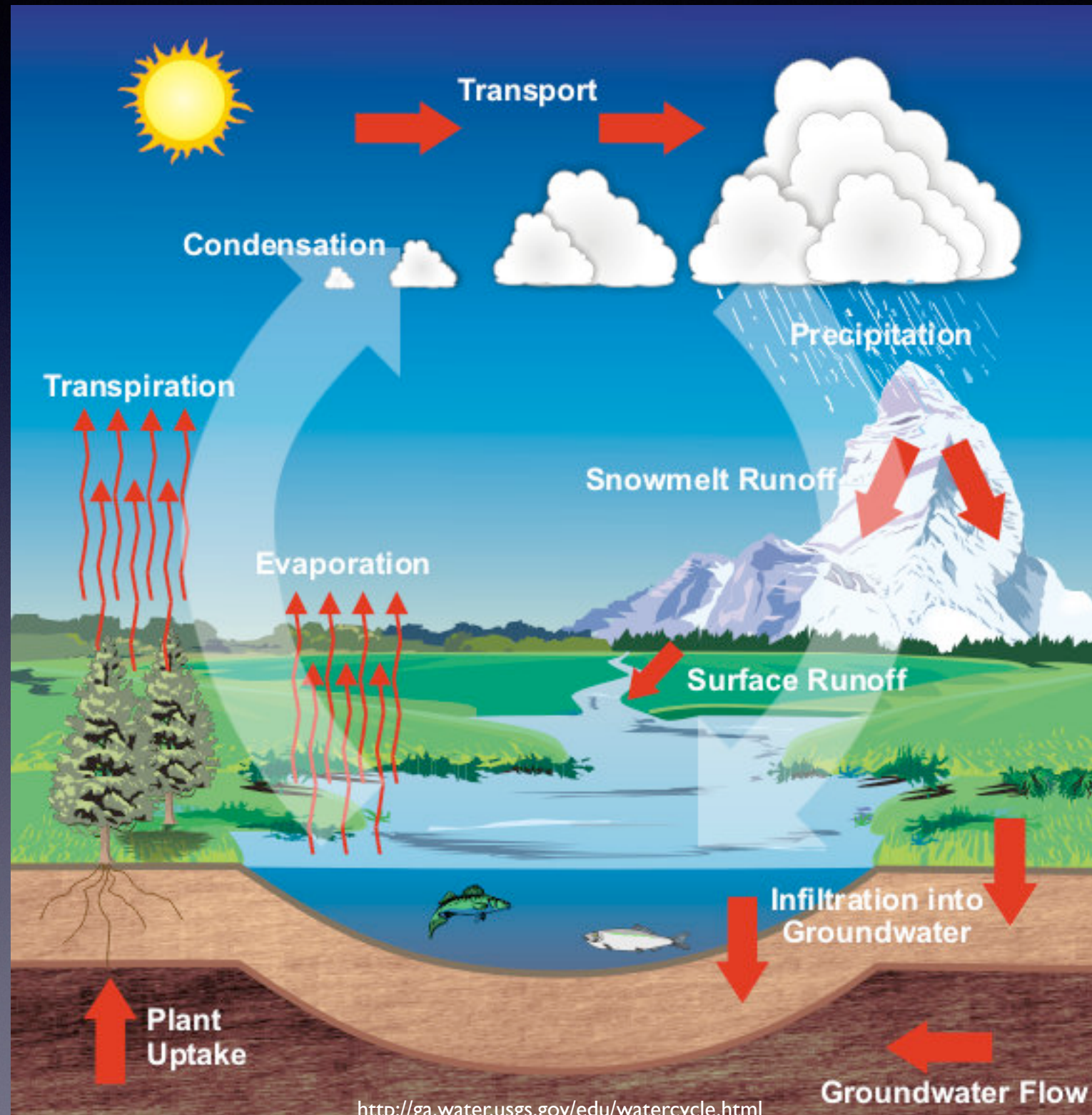


Water Cycle



Water Cycle: Water moves continuously through the earth and atmosphere.



Where Is Water Found?

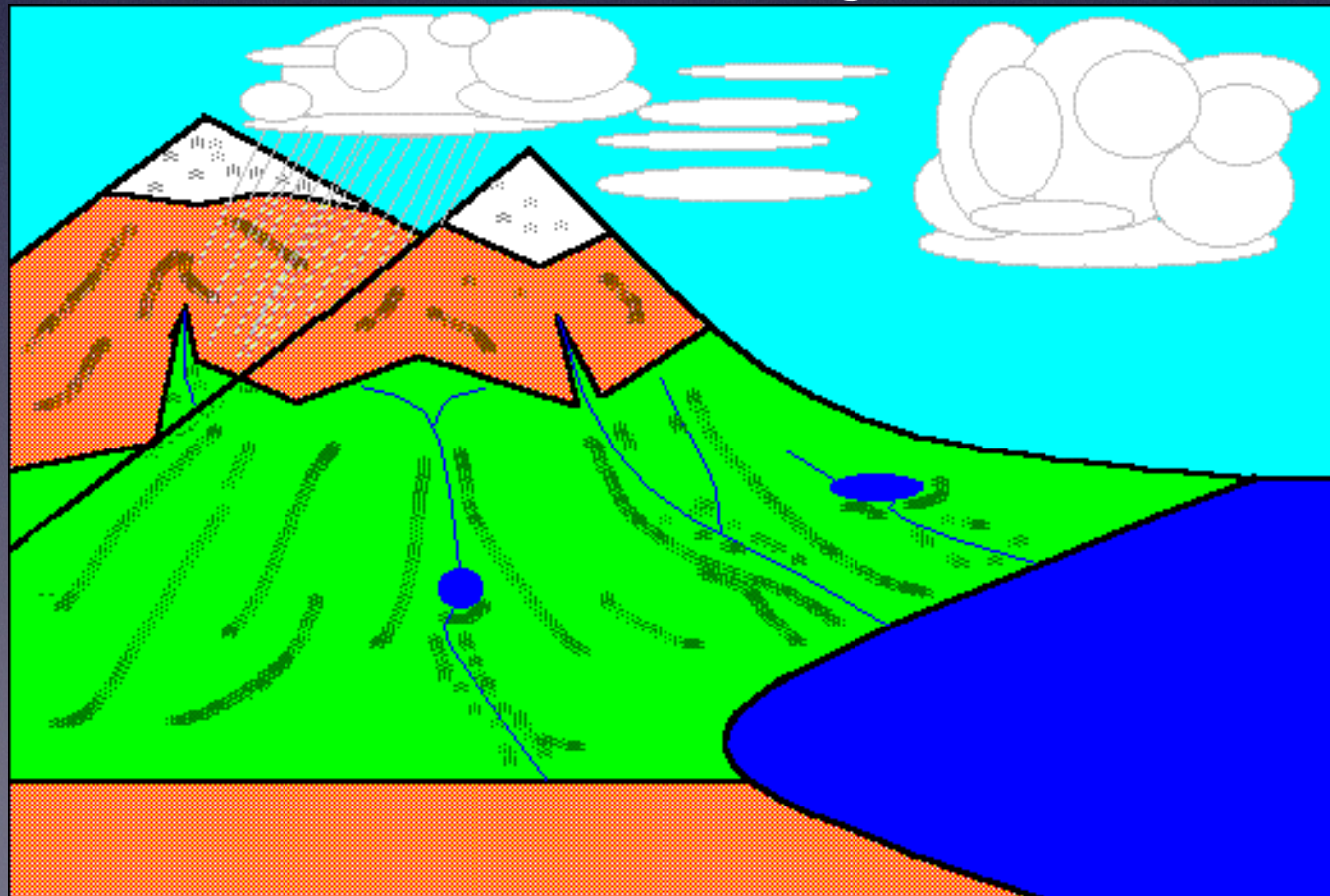


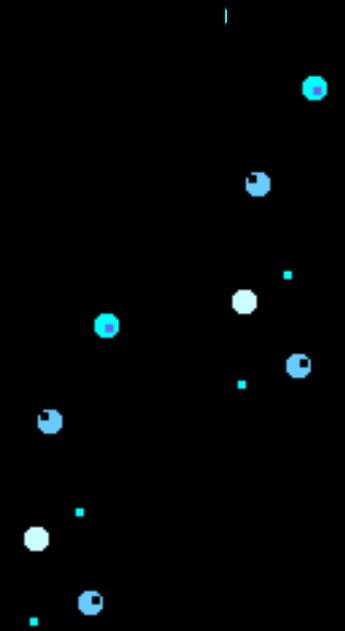
- The earth is unique because it has Liquid water on its surface.... but not all liquid water is drinkable!
 - Oceans (salt water) 97%
 - Freshwater 3%
 - Ice/Snow 2%
 - Lakes, streams, rivers, and underground 1%

Processes that make up the Water Cycle



1. **Evaporation:** Liquid water turns to gas water.
 - The Sun's Energy heats up surface water in rivers, lakes, and oceans causing water to evaporate.





Evaporation:

Clean Water?

- When water turns from a Liquid to a Gas,
impurities are left behind. Ex; evaporation



2. Water transpires
from the leaves of plants.

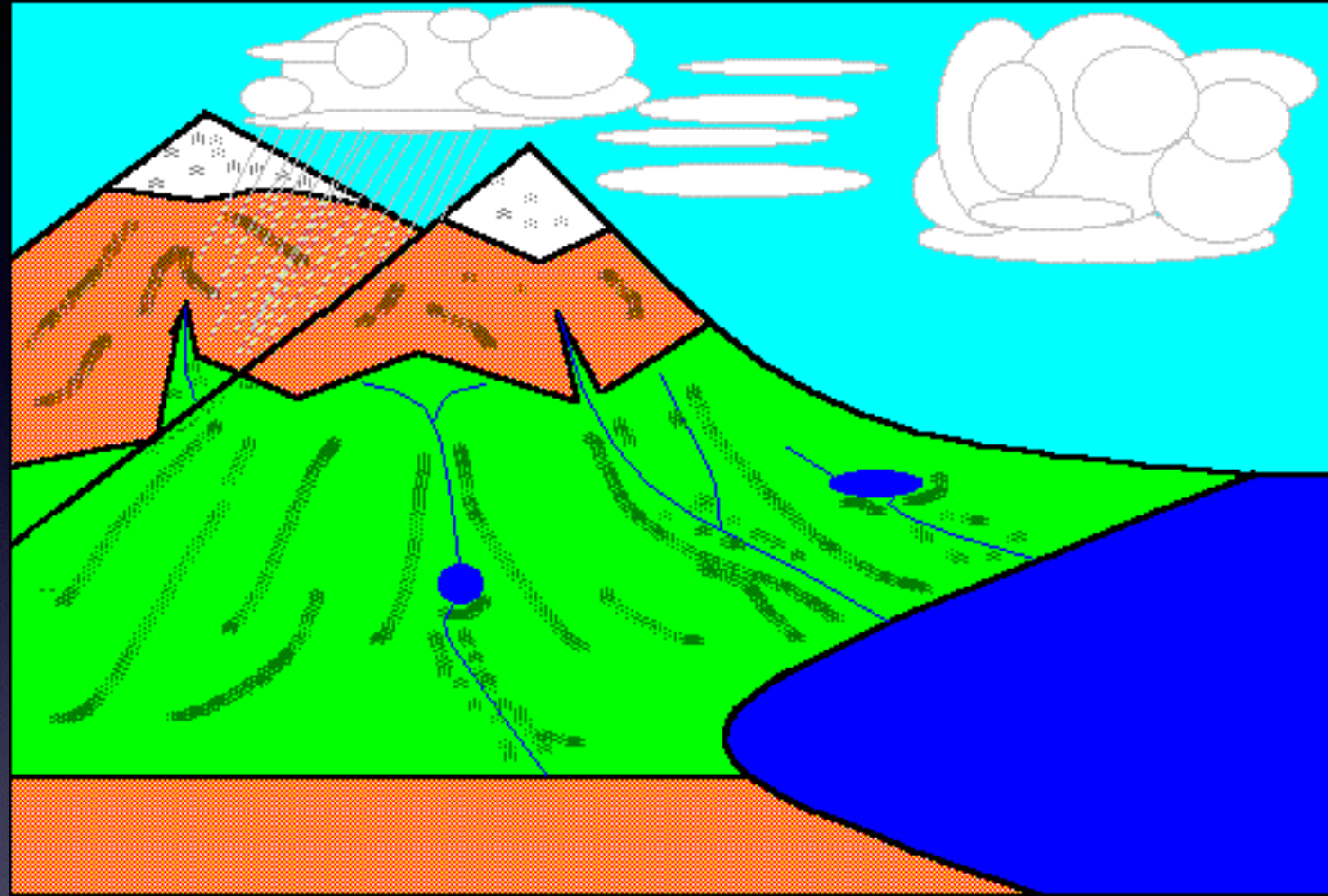


Water travels
through plant

Soil

3. Water is absorbed
from
the ground through the roots.

3. Condensation/Clouds:



- As gas water cools, it turns into liquid water to form clouds.

Is it clean?

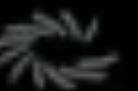
-Water condenses into liquid only when there are small dust particles in the air around which the droplet can form.



Condensation/Clouds: (cont.)

a. Fog: a cloud at or near the Earth's **surface**.

b. Dew: Water droplets **condenses** from the air onto **cool** surface.

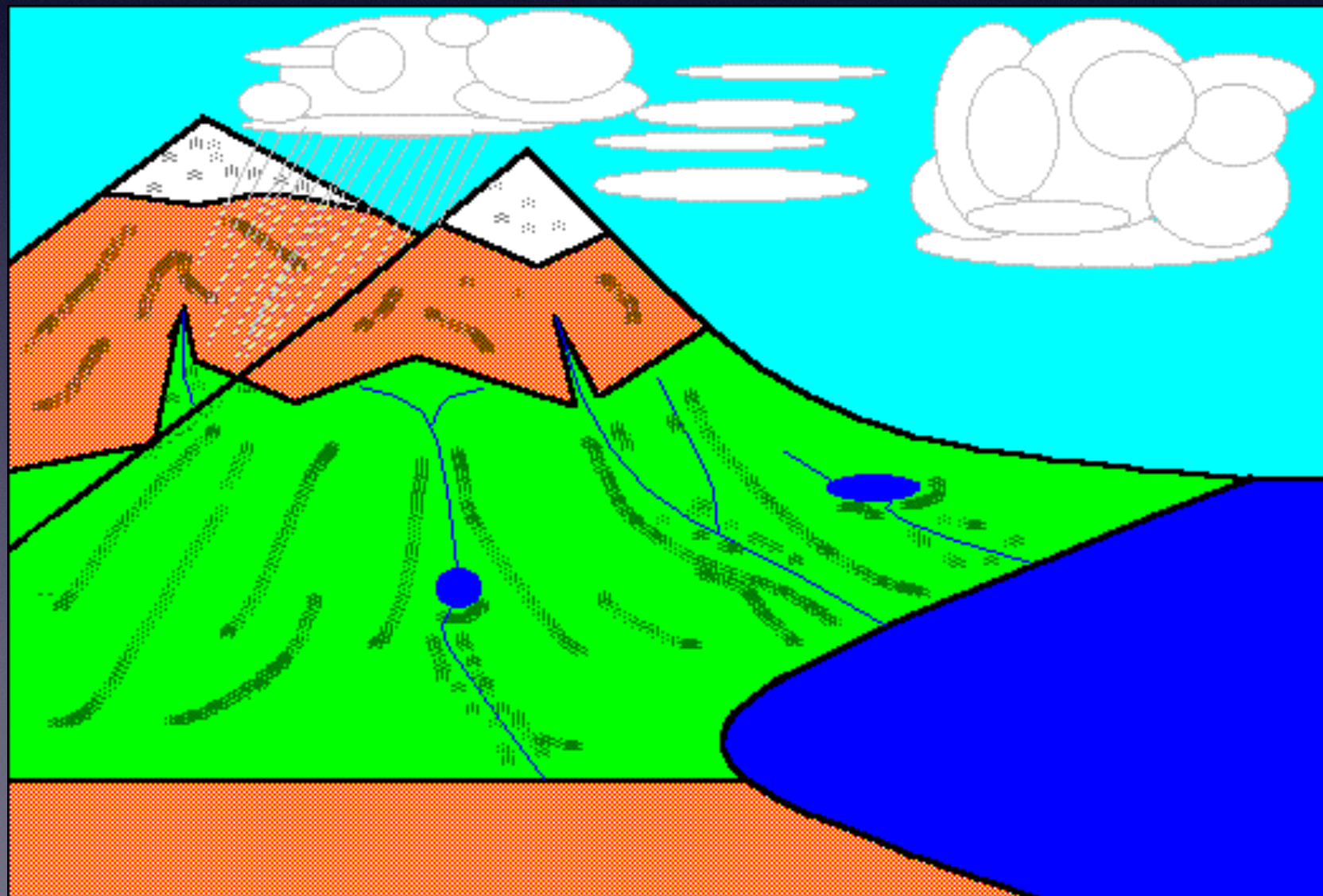


How do clouds move?

Transportation:



- clouds and fog are pushed by WIND



Forms of Precipitation



Rain



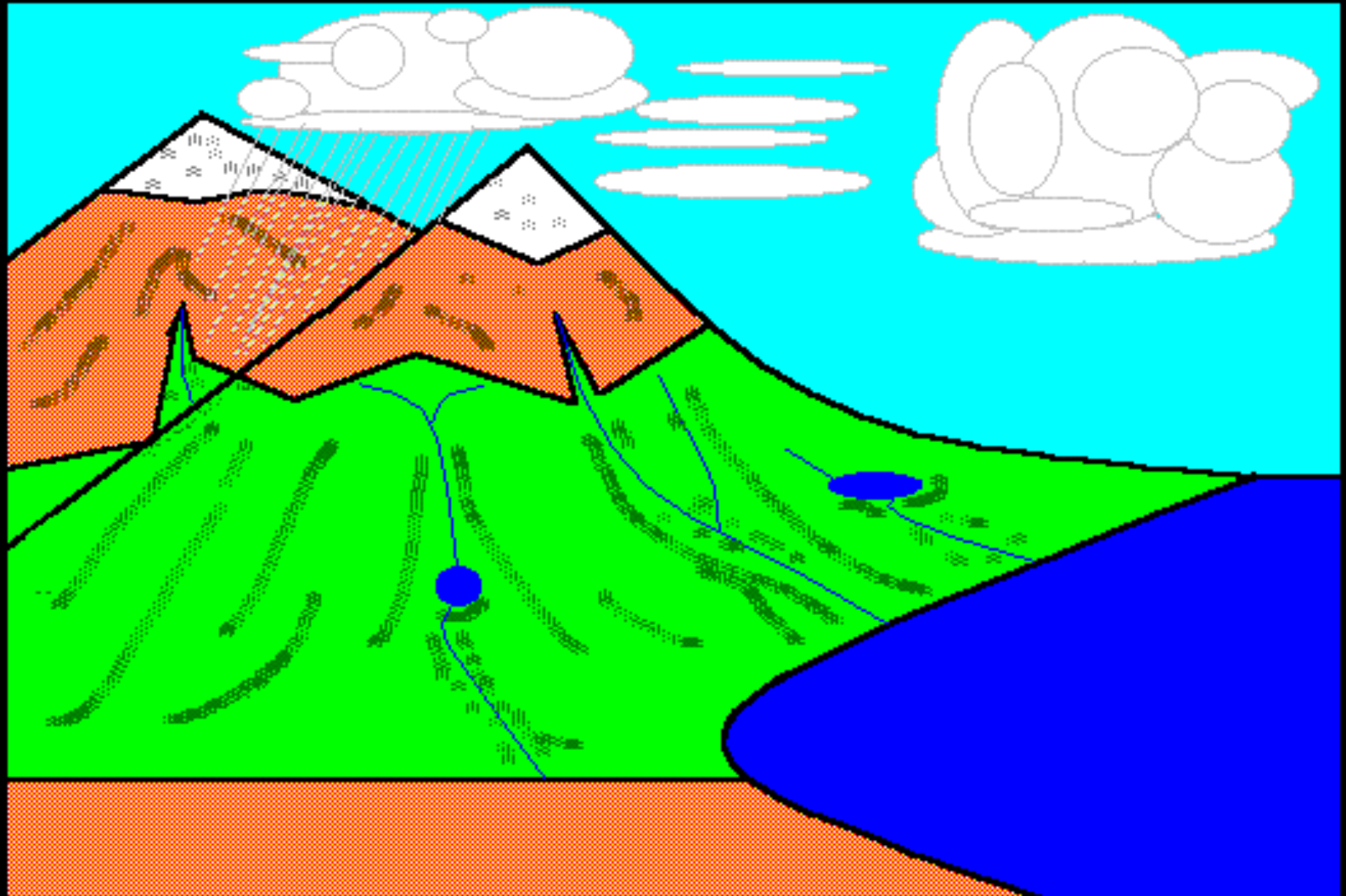
Sleet

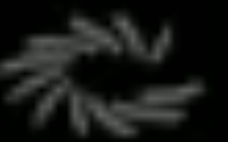


Hail



Snow







Acid Rain

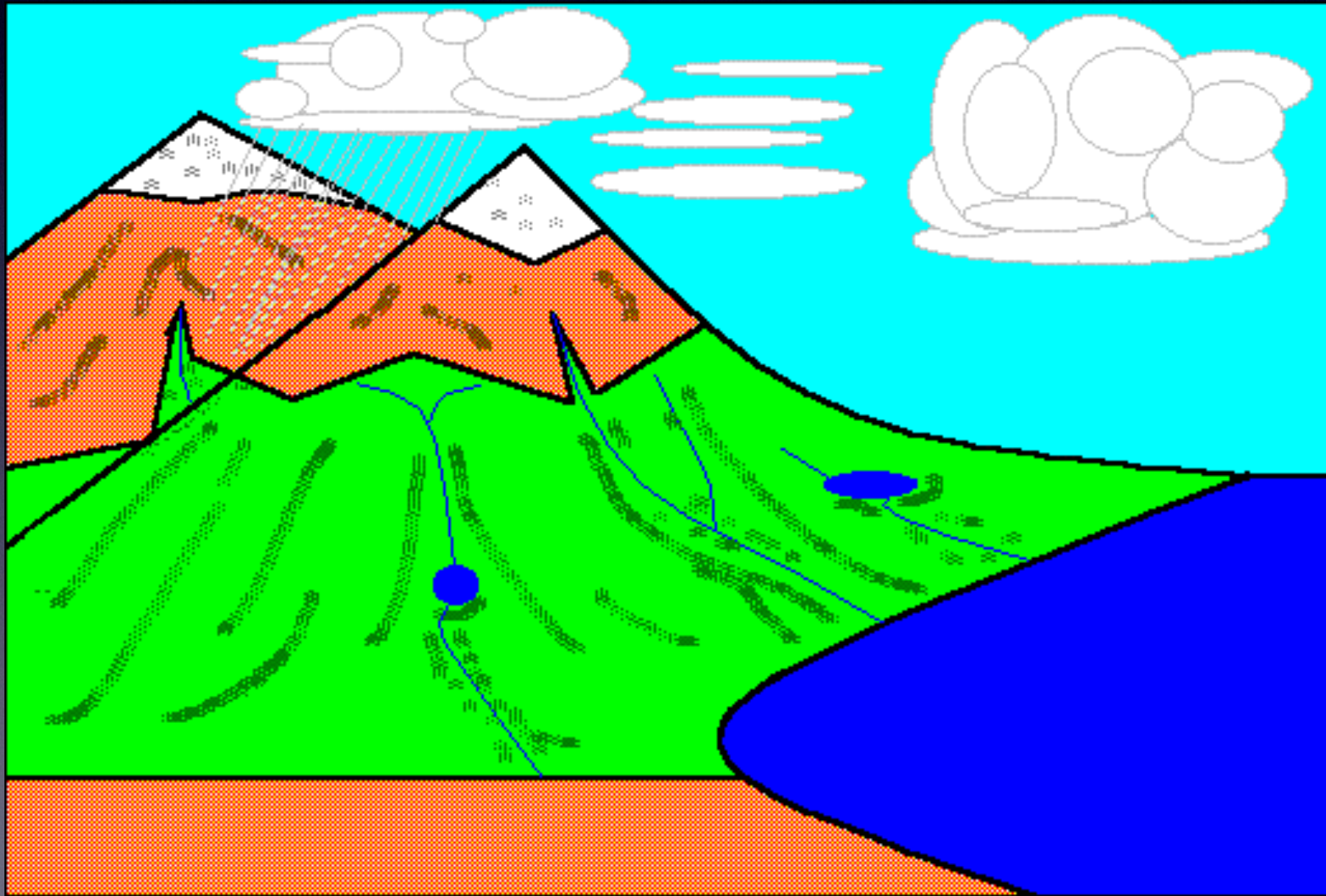


- Factories, cars, and homes put pollution in the air that mixes with the clouds causing rain to be acidic.

* Impact:

- Plant growth and health decreases
- Decreased fish populations
- Chemical erosion on buildings/statues
- People/animals getting sick

5. Surface Runoff: Water moves downhill into streams , rivers , ponds , and lakes .



6. Water Shed: The land area from which the water drains to a given point.

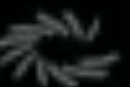


- Small streams flow into larger streams, then into rivers, and eventually the water flows into the ocean.

7. Infiltration: Water moves (soaks) into the ground through the process of infiltration.

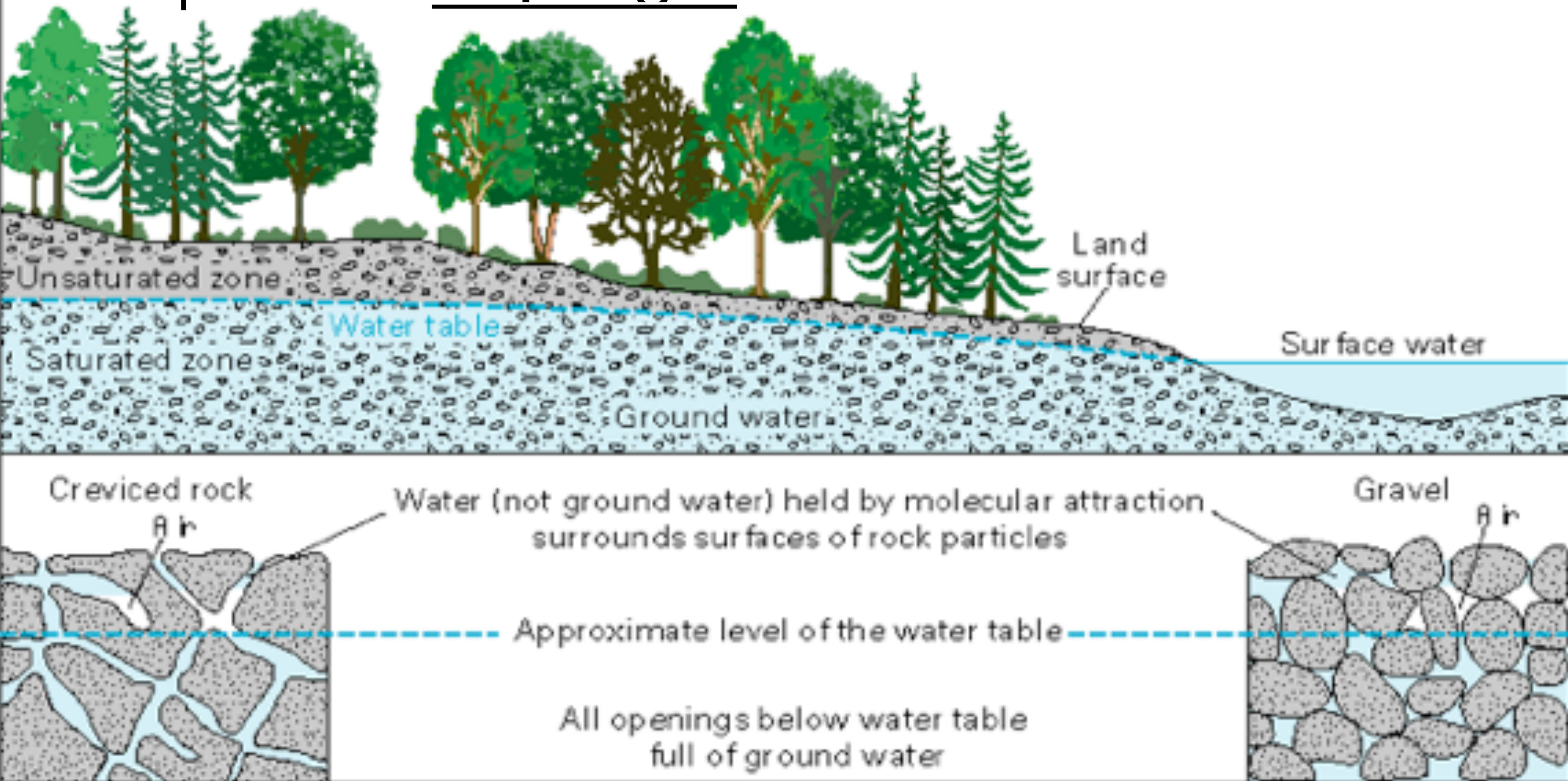
*Clean Water?

-as water infiltrates through the soil and rock, many impurities are filtered out.



8. Ground Water: Water that remains underground is called ground water.

Ground water moves slowly and can reach the surface again in low spots called springs.



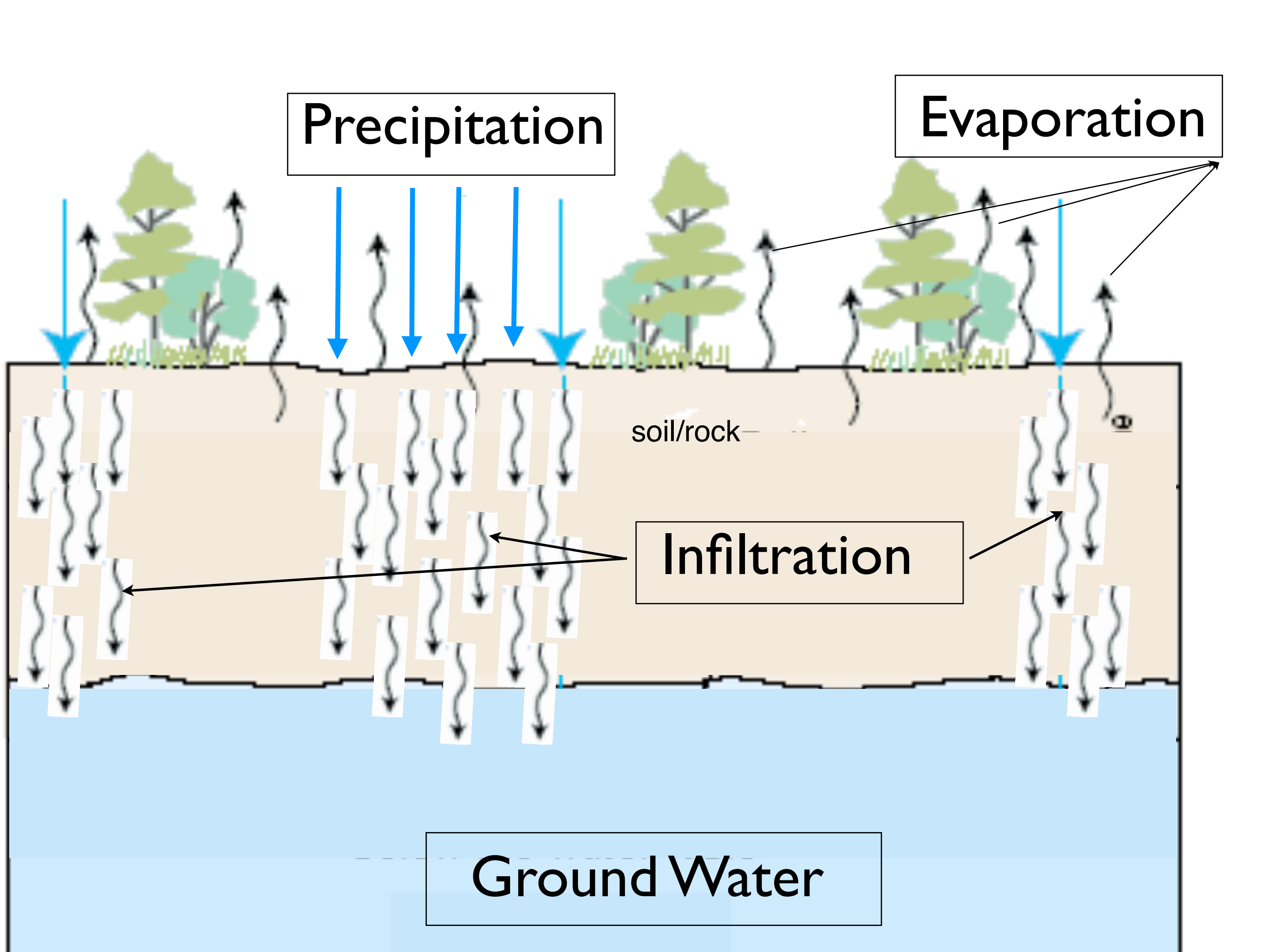
Precipitation

Evaporation

soil/rock

Infiltration

Ground Water



9. Aquifers:

- An underground layer of water within permeable rock, gravel, silt, clay, and/or sand where ground water is naturally stored.

