

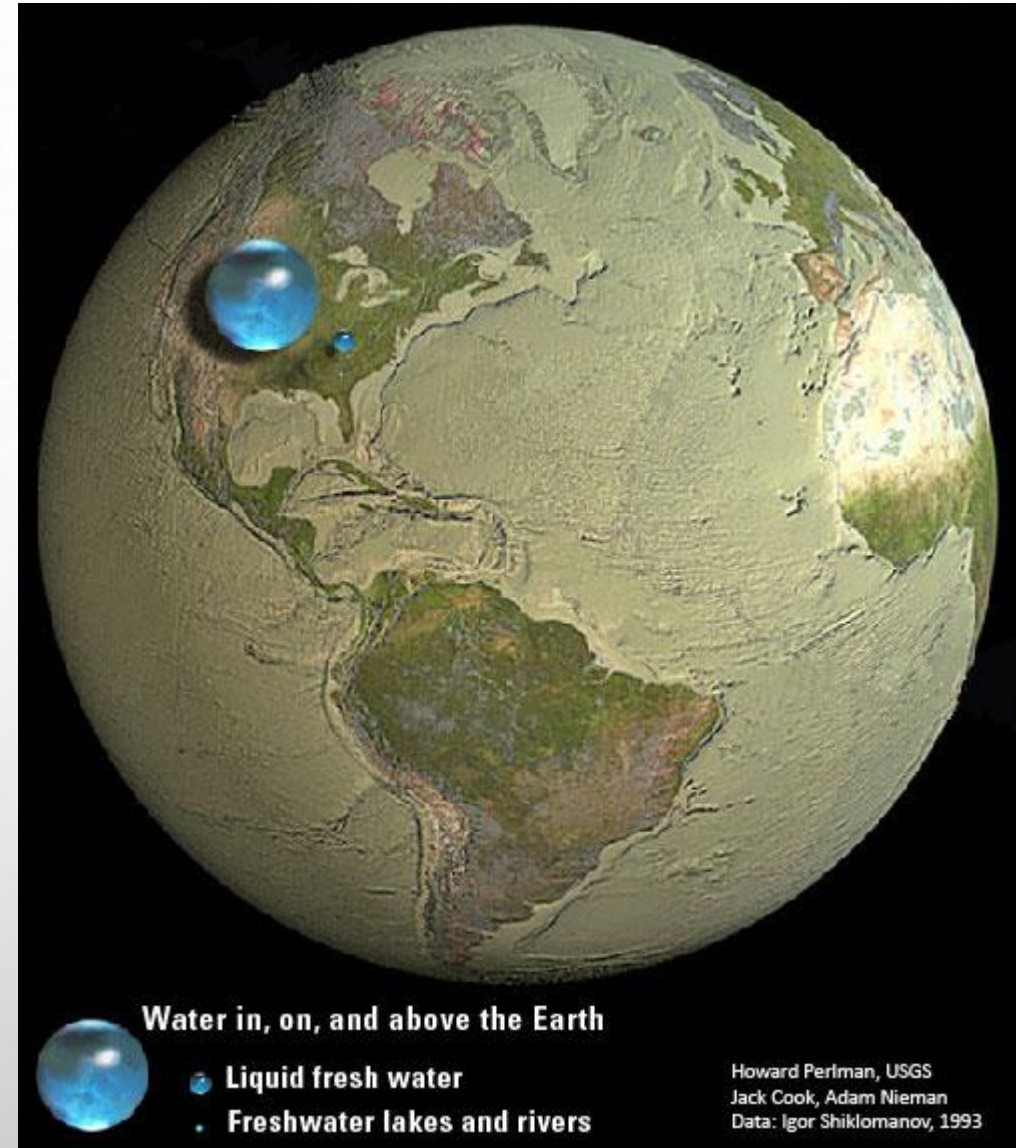
The background features a light gray gradient with several realistic water droplets of various sizes scattered across the surface. In the center, there is a faint, circular diagram of the water cycle, showing the sun, clouds, rain, and evaporation processes.

WATER!

I WILL BE ABLE TO UNDERSTAND THE PROCESS OF THE WATER CYCLE.

EARTH

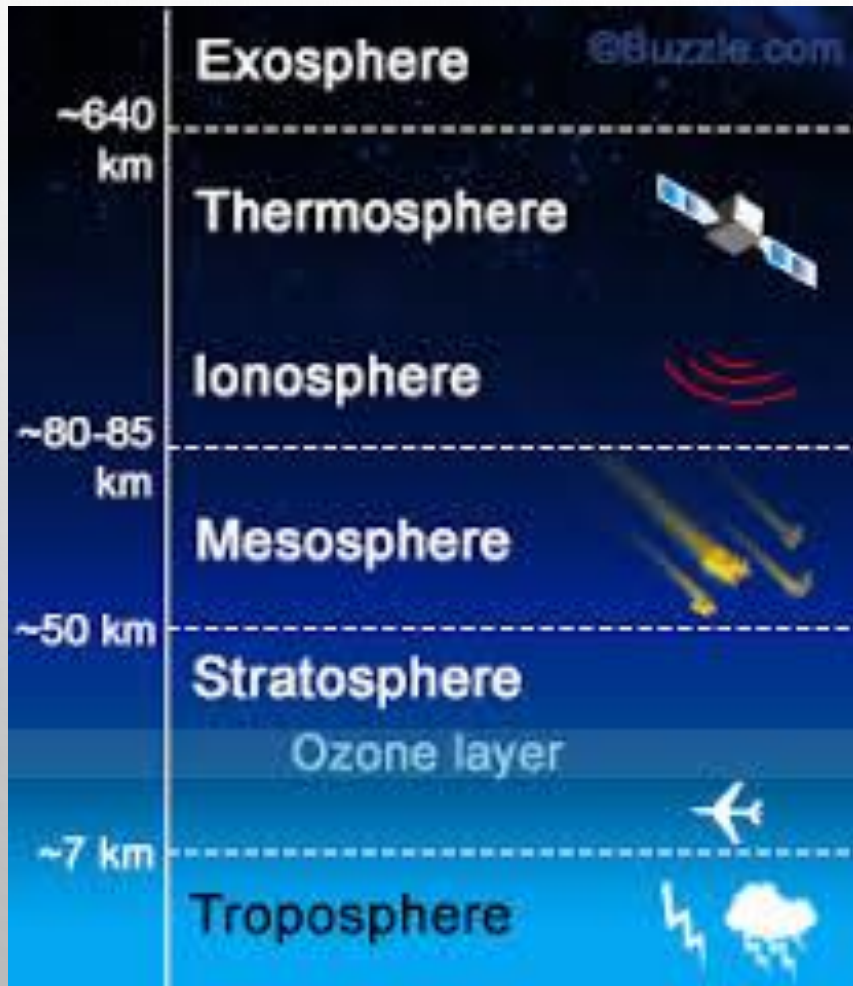
- WATER COVERS 75% OF EARTH'S SURFACE.
- 96.5% OF THE WATER ON EARTH IS SALT WATER.
- 3.5% OF THE WATER ON EARTH IS FRESH WATER. MOST OF IT IS IN GLACIERS.



- EVAPORATION- WHEN THE SUN OR ANY OTHER SOURCE OF HEAT TURNS WATER INTO WATER VAPOR.



WATER VAPOR



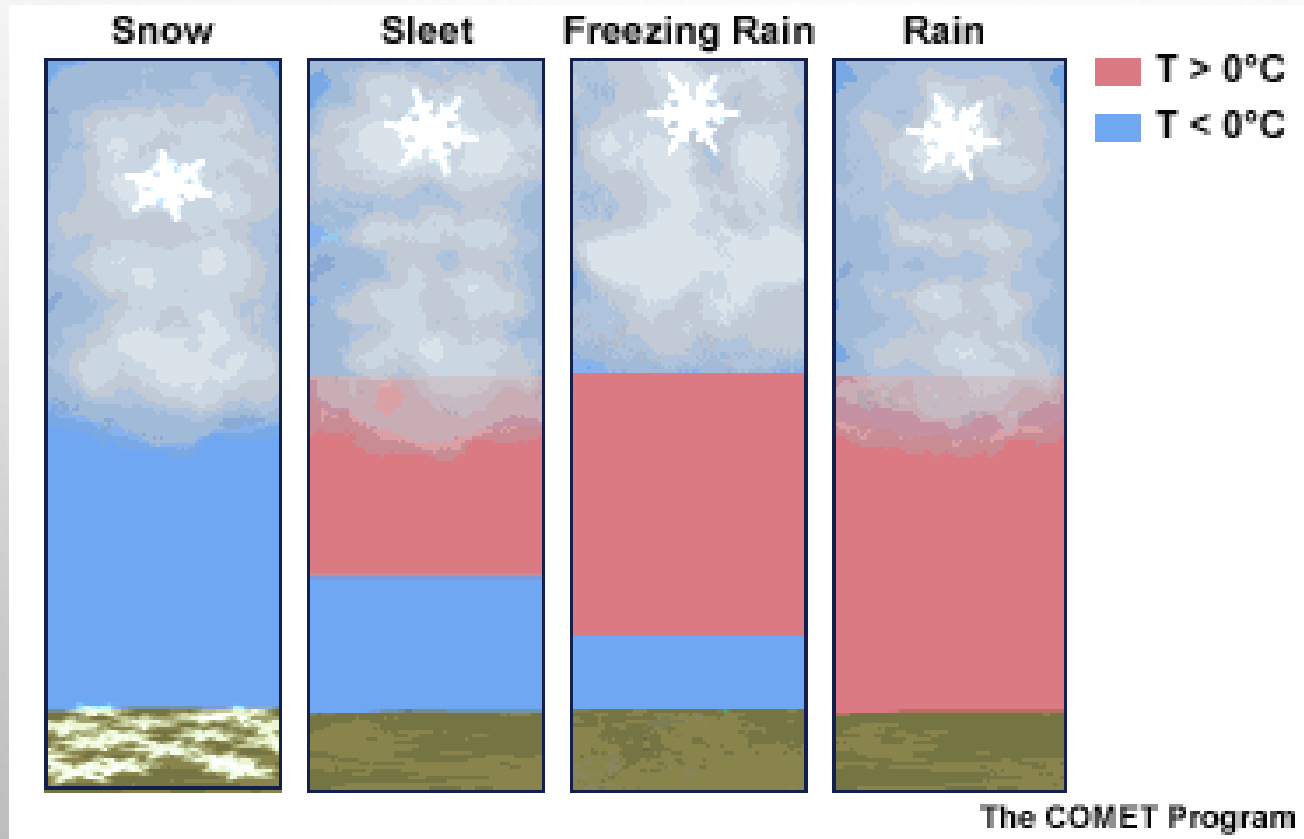
- **ATMOSPHERE-** THE ENVELOPE OF GASES SURROUNDING THE EARTH OR ANOTHER PLANET.

CLOUDS

- CONDENSATION- WHEN WATER VAPOR COOLS DOWN THEY FORM INTO LIQUID AGAIN OR INTO CLOUDS.

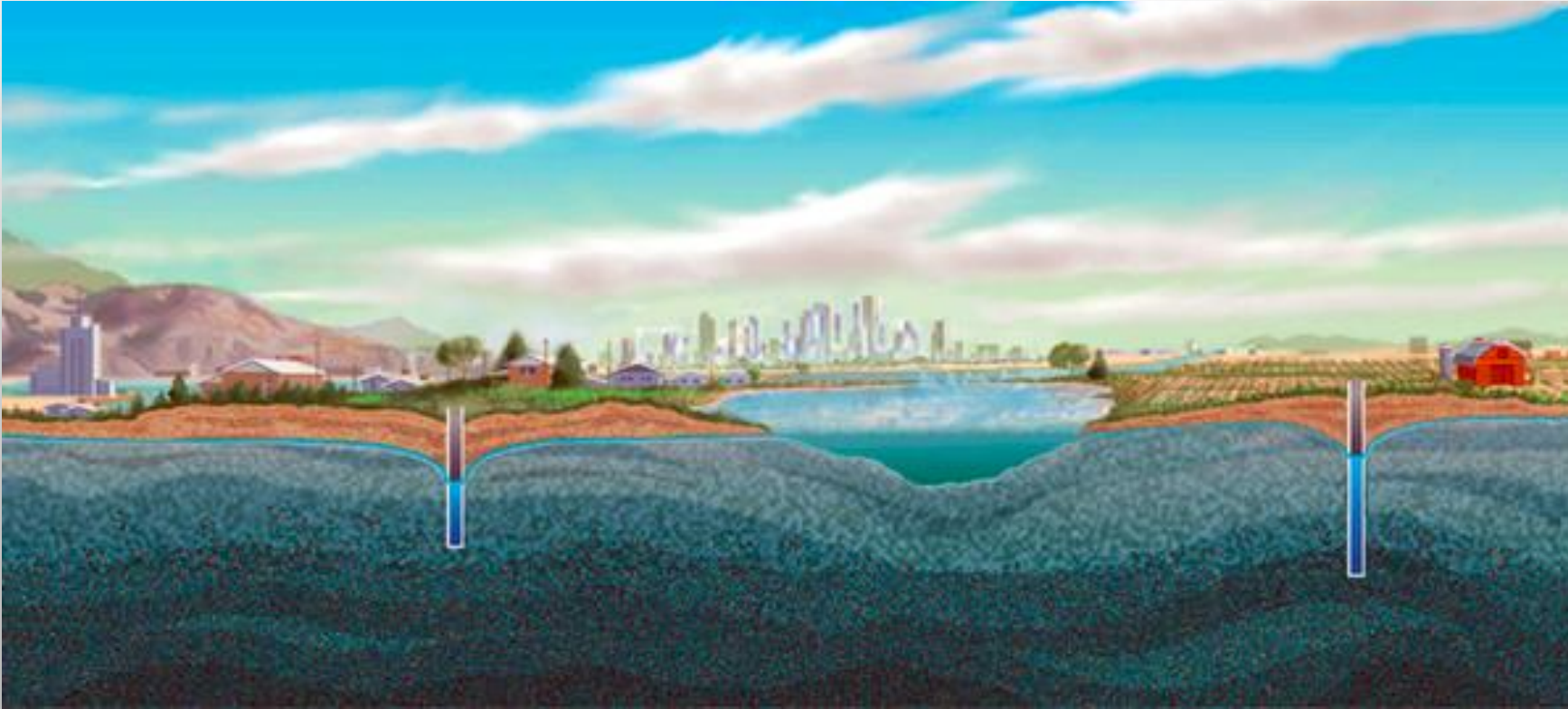


- PRECIPITATION- WATER THAT FALLS FROM CLOUDS TO EARTH SURFACE.



WHERE DID THE WATER GO?

- **GROUNDWATER**-IS THE WATER FOUND UNDERGROUND IN THE CRACKS AND SPACES IN SOIL, SAND AND ROCK

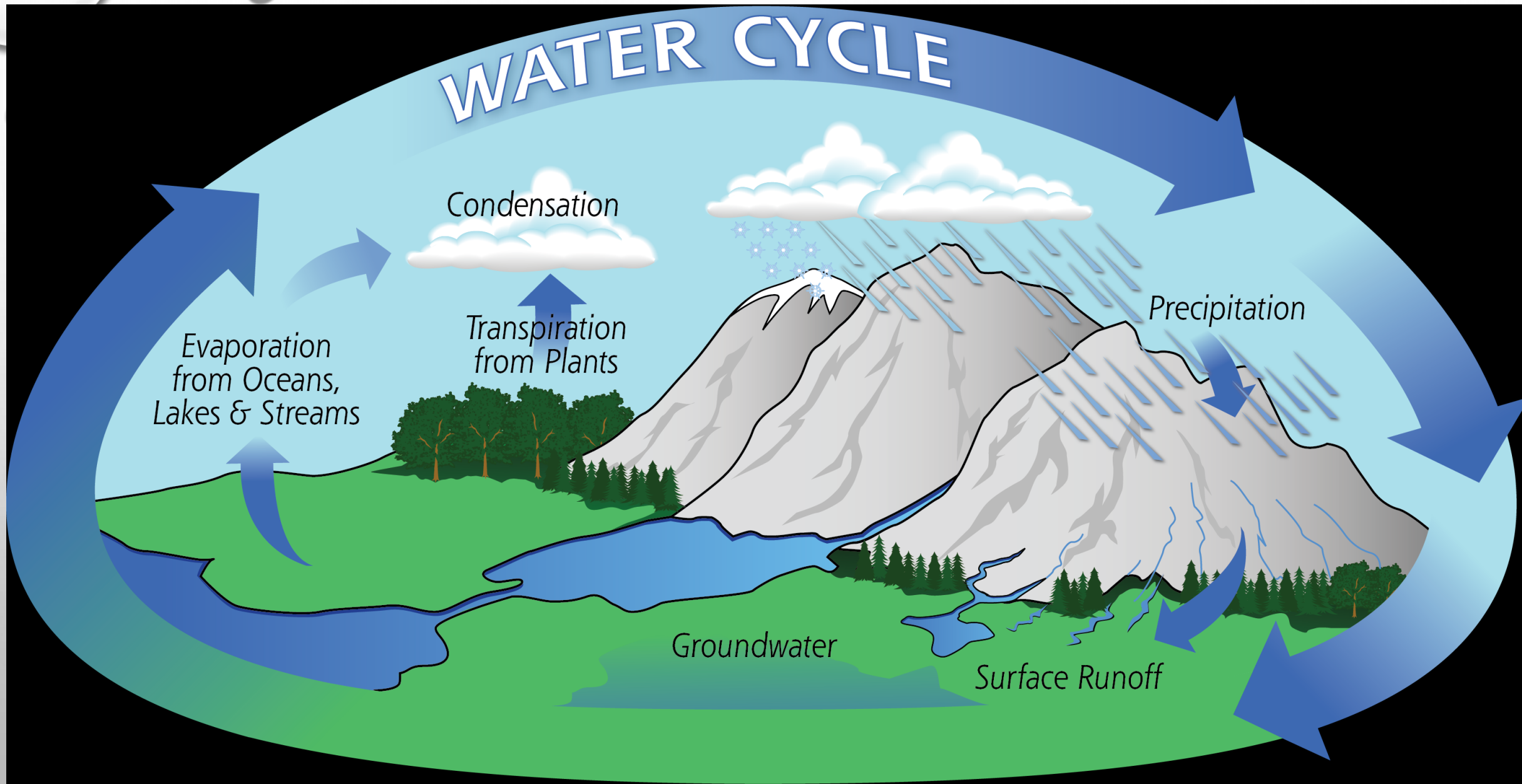


RUNNING WATER!

- RUNOFF- WATER THAT CAN NOT SOAK UNDERGROUND AND INSTEAD FLOWS ACROSS EARTH'S SURFACE.



WATER CYCLE



Evaporation
from Oceans,
Lakes & Streams

Condensation

Transpiration
from Plants

Precipitation

Groundwater

Surface Runoff

**SPRING IS A NATURAL OPENING ALLOWING
GROUND WATER TO SURFACE.**



**DEW- IS CONDENSATION AND IS FOUND ON GRASS
IN THE MORNING.**





**I WILL BE ABLE TO UNDERSTAND HOW WEATHER IS
MEASURED.**

- UNIT 3 LESSON 2



WEATHER VS. CLIMATE

- WEATHER IS WHAT THE ATMOSPHERE IS AT **ONE** POINT IN TIME.
- CLIMATE IS HOW THE WEATHER IS OVER A **LONG** PERIOD OF TIME.

TOOLS

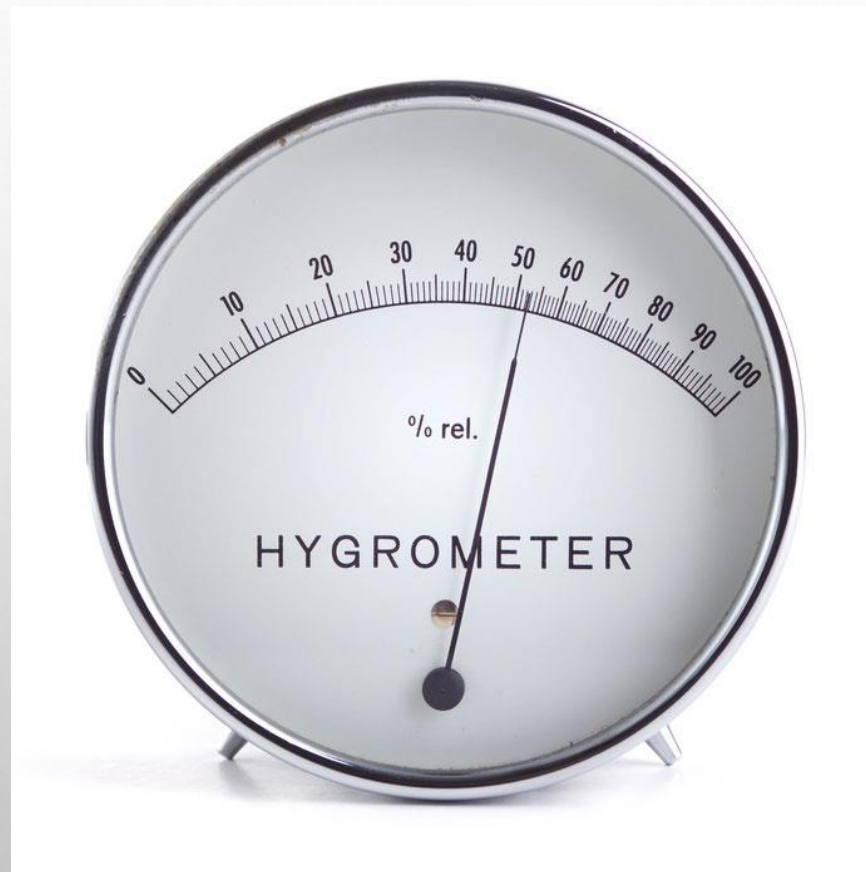
- WEATHER BALLOONS- CARRY WEATHER TOOLS HIGH UP INTO THE ATMOSPHERE.



- WIND VANE- MEASURE WIND DIRECTIONS.
- ANEMOMETER- MEASURES WIND SPEED.
- BAROMETER- MEASURES AIR PRESSURE.



- HYGROMETER- MEASURES WATER VAPOR OR HUMIDITY.
- HIGHER TEMPERATURES MEANS MORE WATER VAPOR CAN BE HELD.



The image features a light gray gradient background with several realistic water droplets of various sizes scattered in the corners. The droplets have highlights and shadows, giving them a three-dimensional appearance. The text is centered in the upper half of the image.

**I WILL BE ABLE TO UNDERSTAND CLOUDS AND THE
DIFFERENT TYPES.**

CLOUDS

- STATUS- ARE FLAT AND COVER MOST OF THE SKY.



- CIRRUS- CLOUDS THAT ARE THIN, WHITE, AND FEATHERY.

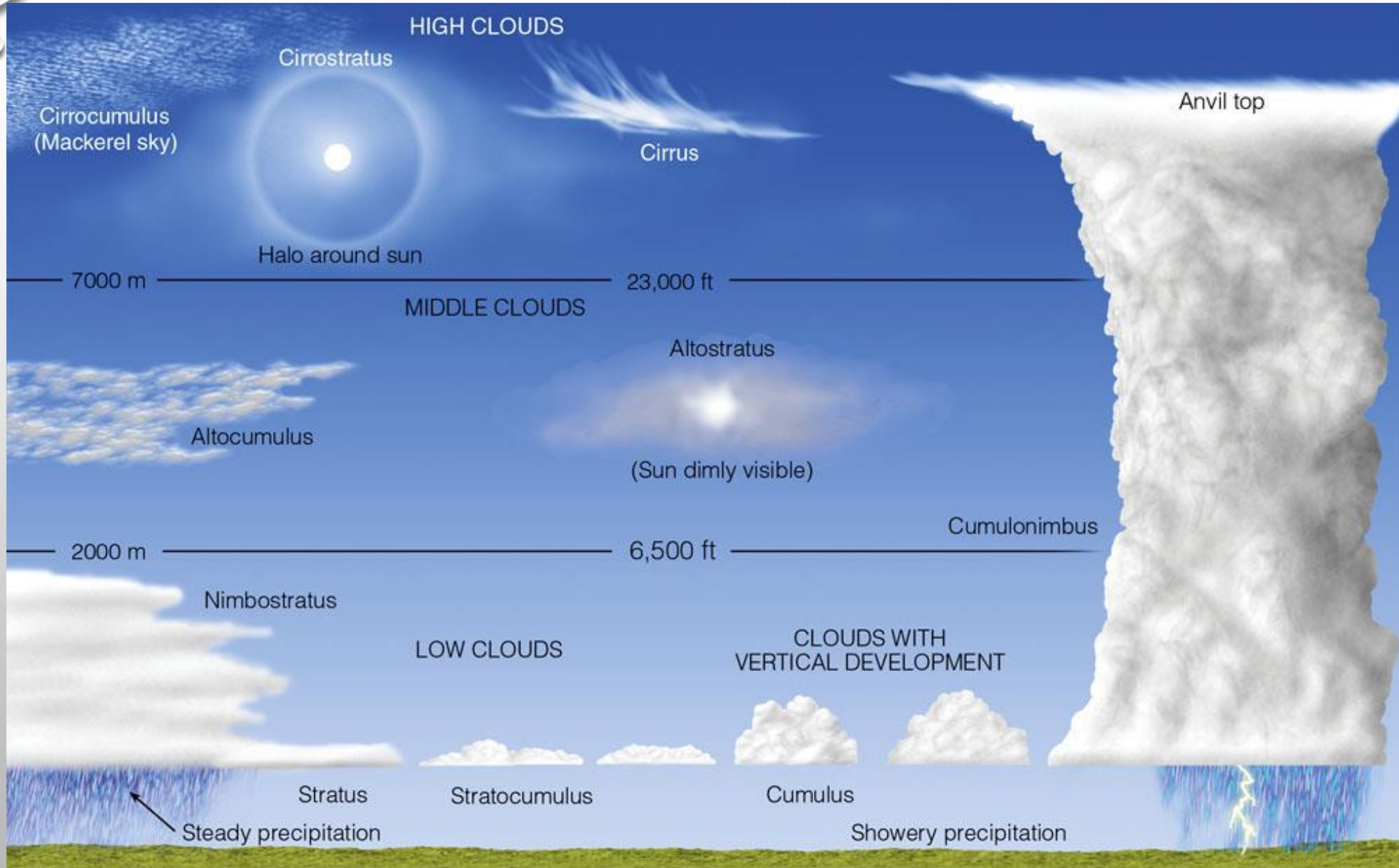


- CUMULUS- CLOUDS THAT ARE PUFFY AND WHITE.



- NIMBUS CLOUDS ARE STORM CLOUDS.





TYPES OF PRECIPITATION

- SLEET- SMALL PELLETS OF ICE.
- HAIL- FORMS INSIDE THUNDERCLOUDS. THE WIND CARRIES RAINDROPS HIGH INTO THE CLOUDS AND FREEZES THEM.





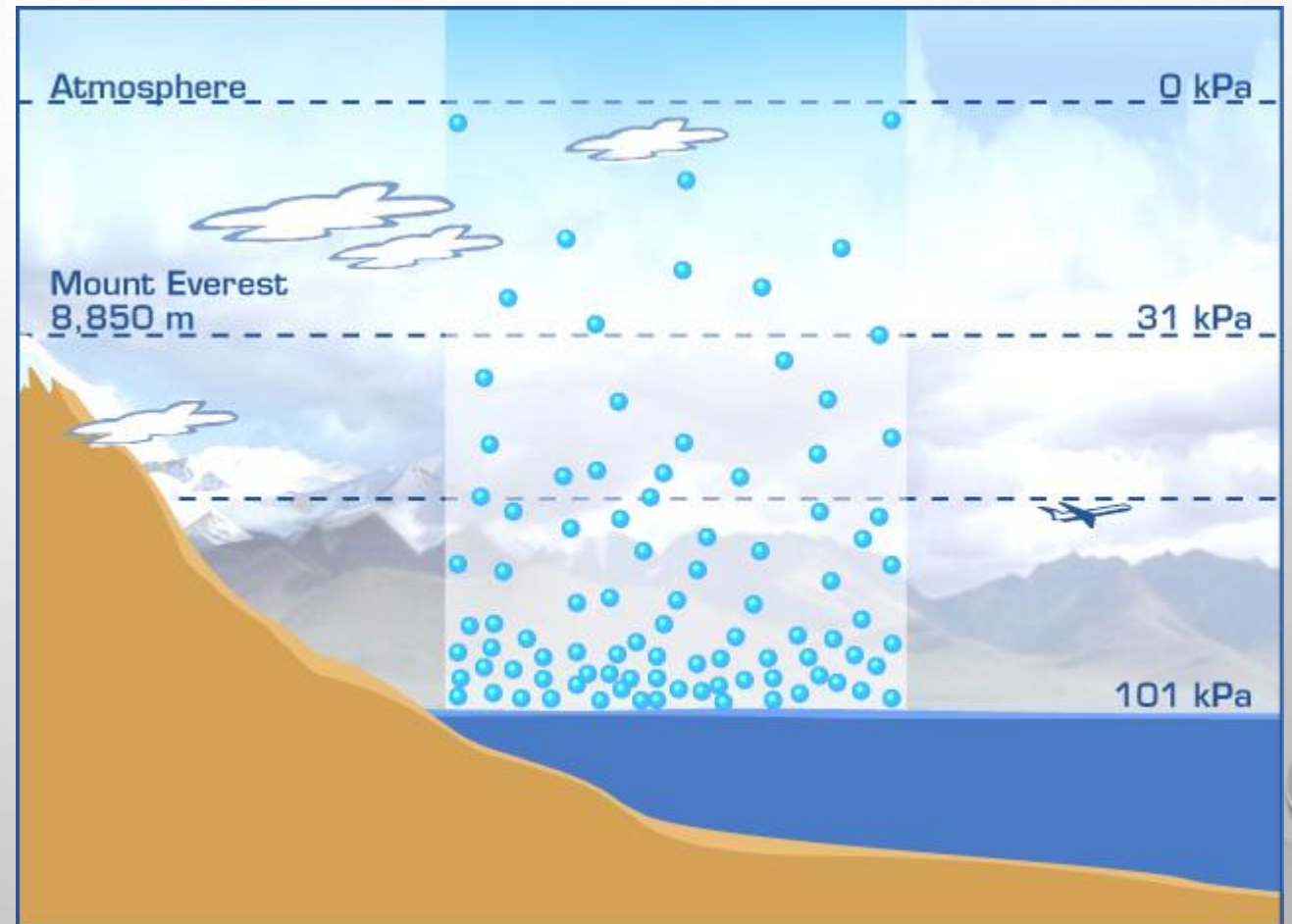
**I WILL BE ABLE TO DESCRIBE THE FACTORS THAT HELP
METEOROLOGIST PREDICT WEATHER.**

- UNIT 3 LESSON 4



THE ATMOSPHERE

- AIR HAS MATTER, VOLUME, AND MASS.
- AIR-PRESSURE IS THE WEIGHT OF THE ATMOSPHERE ON EARTH.
- WIND IS MOVING AIR.

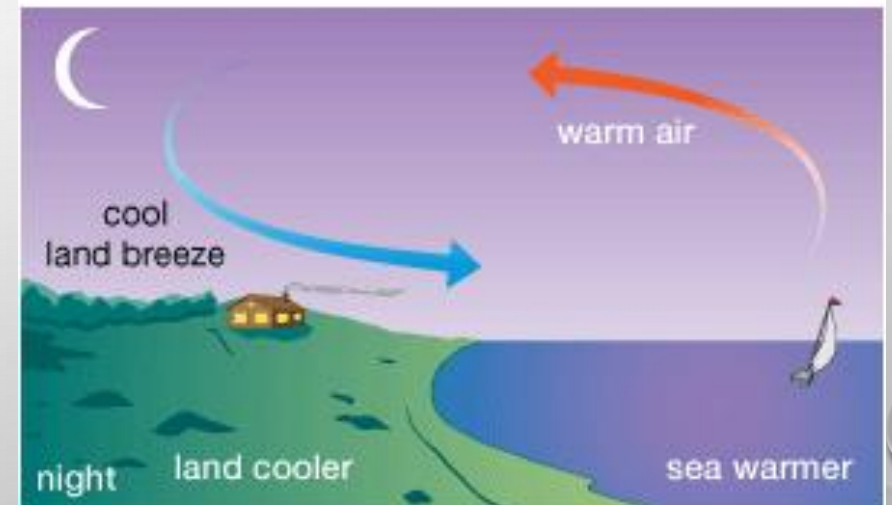
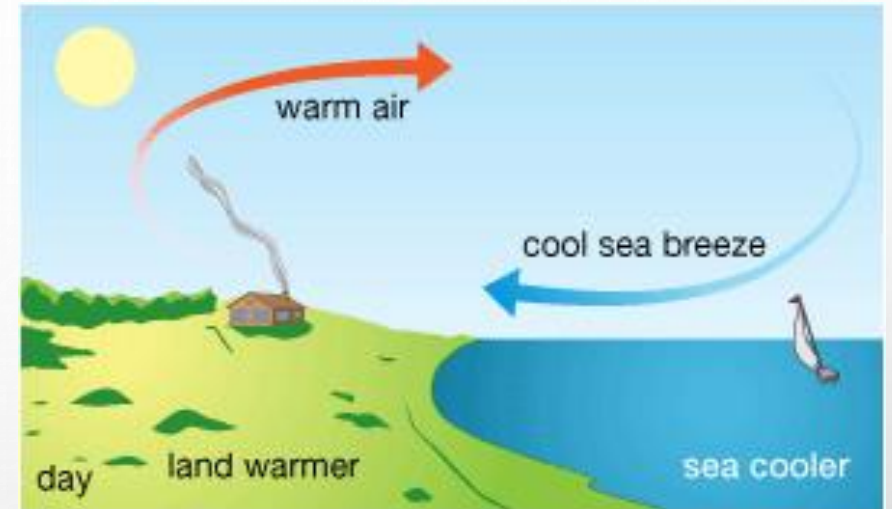


- LOW PRESSURE MEANS LOW DENSITY=RISING AIR/HOT
- HIGH PRESSURE MEANS HIGH DENSITY= COOL AIR DROPS.



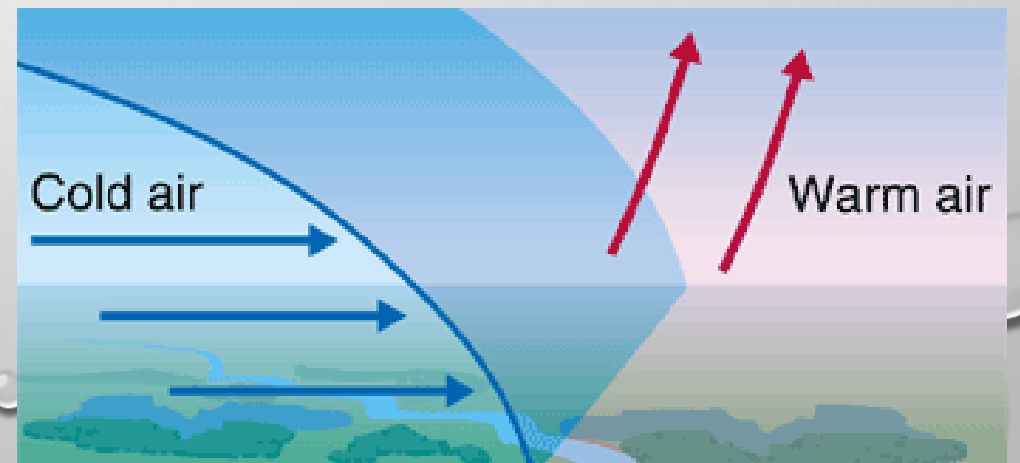
SEA BREEZE

- LAND HEATS UP FASTER THAN WATER. SO AIR OVER LAND HEATS UP AND RISES WHILE AIR OVER WATER COOLS DOWN AND FALLS. THIS CAUSES WIND!

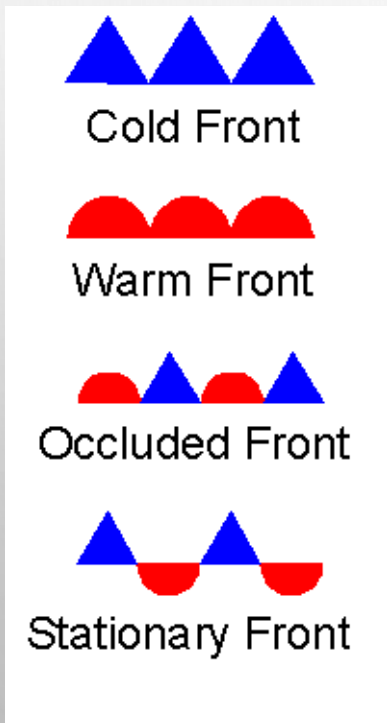


AIR FRONTS

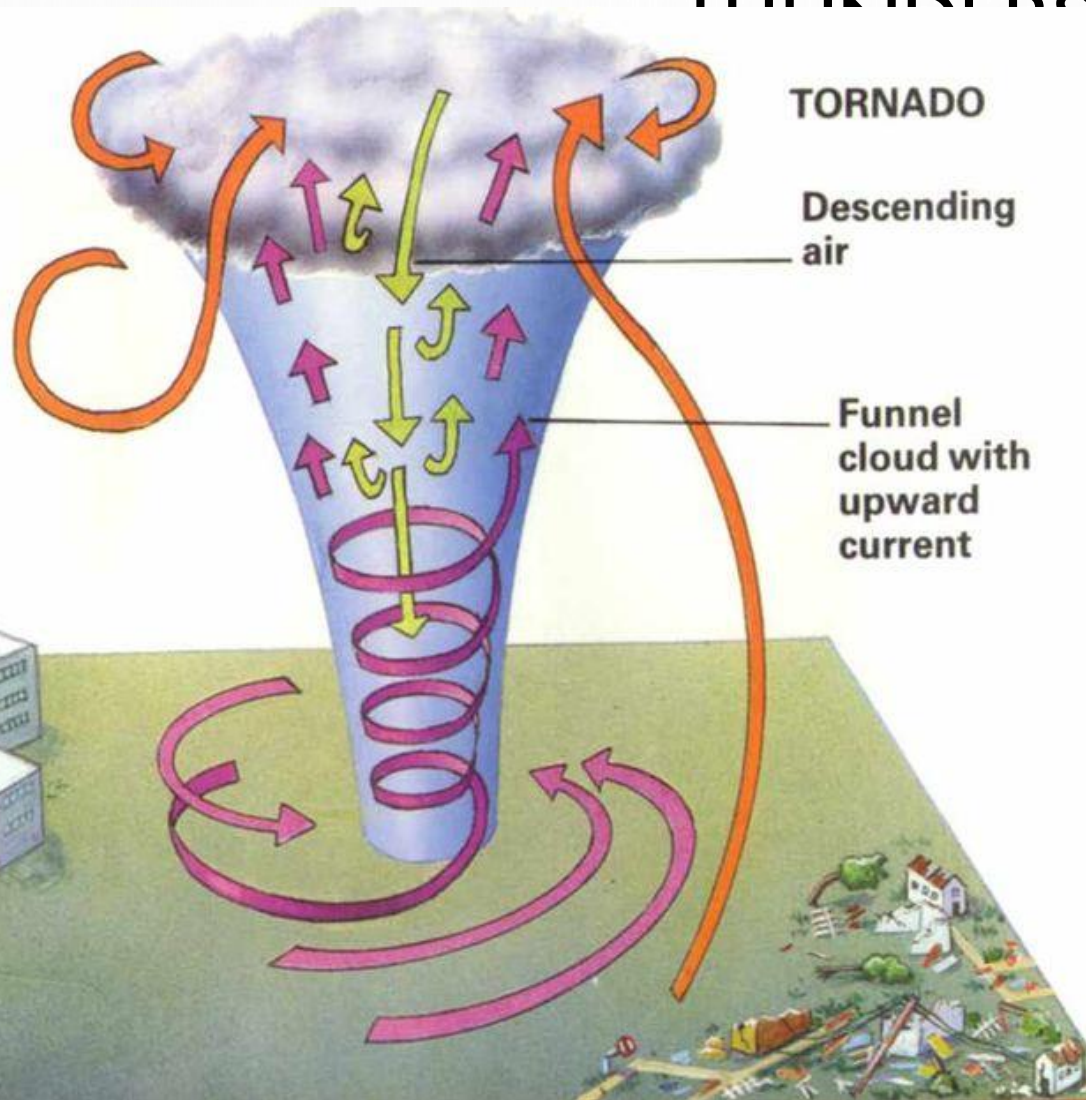
- AIR MASS- HAS THE SAME TEMPERATURE AND MOISTURE PROPERTIES. WHEN TWO AIR MASSES MEET IT IS CALLED A FRONT.
- COLD FRONT VS. WARM FRONT
- [HTTP://WWW.PHSCHOOL.COM/ATSCHOOL/PHSCIEPX/ACTIVE ART/WEATHER FRONTS/](http://www.phschool.com/atschool/phsciepx/active_art/weather_fronts/)
- [HTTP://STUDYJAMS.SCHOLASTIC.COM/STUDYJAMS/JAMS/SCIENCE/WEATHER-AND-CLIMATE/AIR-MASSSES-AND-FRONTS.HTM](http://studyjams.scholastic.com/studyjams/jams/science/weather-and-climate/air-masses-and-fronts.htm)



WEATHER MAP



TORNADOS- FUNNEL SHAPE AND FORMS FROM THUNDERSTORMS.



- [HTTP://VIDEO.NATIONALGEOGRAPHIC.COM/VIDEO/101-VIDEOS/TORNADOES-101](http://video.nationalgeographic.com/video/101-videos/tornadoes-101)

HURRICANES FORM OVER WARM WATER THAT IS OVER OCEANS. IT SLOWS DOWN WHEN IT REACHES LAND.

