



Science Log - 4th

Topic: Weather

Learning Goals:

1. Identify different cloud types.
2. Use weather instruments and observations of sky conditions to collect and record weather data.
3. Differentiate among the types of weather associated with high-pressure and low-pressure air masses.

K What do you already know about the topic?	W What do you want to know about the topic?	L What did you learn about the topic?

Vocabulary

Temperature	The measure of the amount of thermal energy in the atmosphere
Air pressure	Due to the weight of the air
Front	Boundary between air masses of different temperature and humidity (cold front = cones/icicles; warm front = semi-circles/suns)
Cumulus clouds	Fluffy white, indicate fair weather
Cumulo-nimbus clouds	Produce thunderstorms
Stratus clouds	Smooth, gray clouds; associated with light rain and drizzle
Cirrus clouds	Feathery clouds; associated with fair weather, rain or snow will fall soon
Barometer	Measures air pressure
Anemometer	Measures wind speed
Rain Gauge	Measures the amount of precipitation
Thermometer	Measures the temperature of the air



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Rain In A Cup

Supplies: one clear cup or jar, one paper towel, water, blue food coloring, pipette, rubber band, pencil or pen

Directions:

1. Place a double layer of paper towels over the top of a clear cup or jar, and add a rubber band to hold the paper towel in place.
2. Fill a second cup with water and mix in a few drops of blue food coloring.
3. Use a pipette to add drops of blue water to the top of the paper towel.
4. Once the paper towel has absorbed too much water, the water will begin to drip into the jar or cup.
5. Record your observations of the changes to the paper towel as more drops of water are added.

I observed _____

Extension: Listen to the story [Cloulette](#) by Tom Lichtenheld to better understand your rain investigation.

Cloud Viewer

Supplies: one paper plate, one Cloud Types printout, scissors, glue or tape, (optional) crayons or markers

Directions:

1. Cut the center out of a paper plate.
2. [Optional] Color and decorate your plate.
3. Cut out the labels and pictures from the Cloud Types printout.
4. Glue or tape the labels and pictures around the border of the plate.
5. Hold your cloud viewer up and look through it at the sky to figure out which type of clouds are present today.
6. Record and draw what you observed below.

Cloud Type: _____