

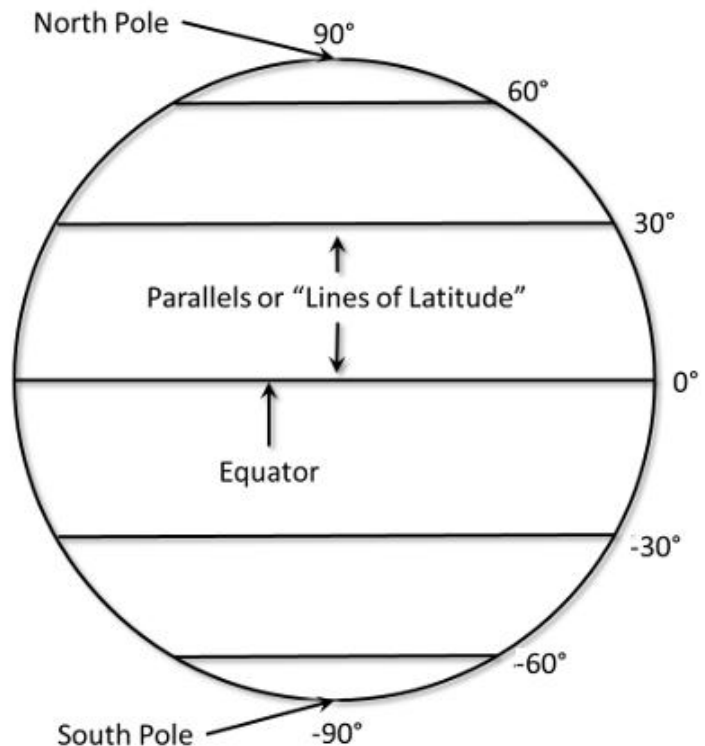
Name _____

WEATHER INSTRUMENTS

WIND + Anemometer

1. What causes wind?
2. Why is it breezy in Beverly by the ocean during the day, but not as much at night?

3. *Label the Easterlies, Westerlies and NE / SE Trade Winds on the Earth below*



4. Using the anemometer, what information does it tell you?

5. How fast can you blow air into the anemometer? How fast is a fan?

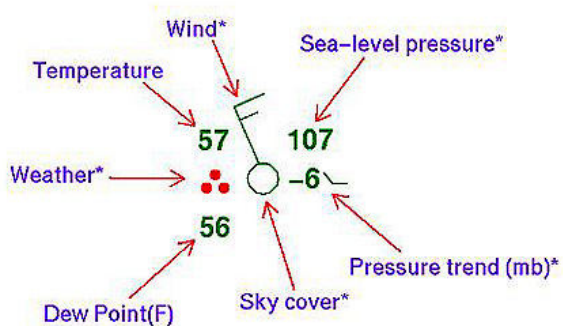
WET BULB VS. DRY BULB THERMOMETER

1. What is humidity?
2. What are characteristics of a humid day? Why do we feel hot?
3. When do most humid days occur? Why do you think that is?

Collect data below:

Dry Bulb Temperature (C)	Wet Bulb Temperature (C)	Difference (C)	Relative Humidity (%)

4. Is your answer the same as what the thermo-hygrometer is reading? Why do you think this is?



WEATHER SYMBOLS:

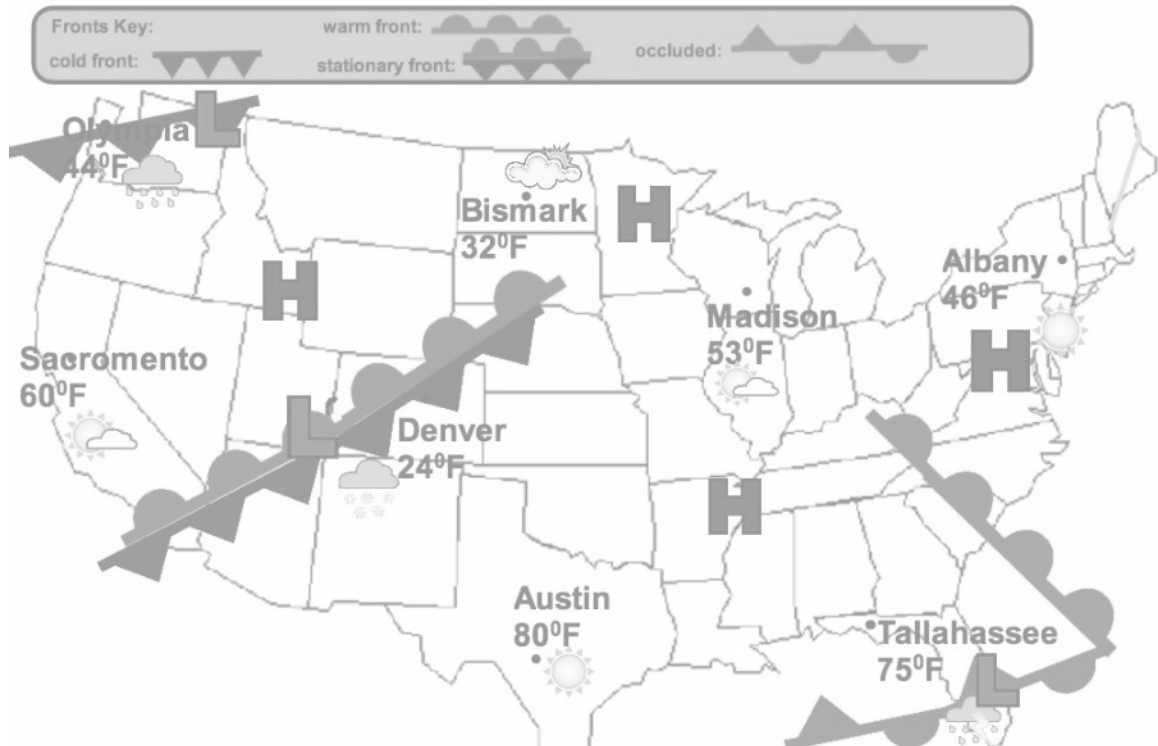
Using symbols provides, change the **wind**, **temperature**, **weather** and **sky cover** then describe in words the weather.

1.

2.

3.

Color and label the fronts below:



LIGHT METER + SEASONS:

Move around the room with the light meter. Move the meter up and down.

1. Where is the light the strongest? Weakest? Be specific.

2. Where on Earth will light be the strongest? How does this affect the climate in the area?

Use the cut-out and put it touching the globe, then shine the light through the holes

3. Describe the two circles you see, how are they different?
4. Where in the world is the circle the smallest? Why?
5. In summertime, why is it warmer in MA? Use the circles and move things around to see what changes, and how that impacts our location.

CLOUDS

Write the meaning of the prefix / suffix below:

Cirro:

Alto:

Nimbo/Nimbus:

Cumulo:

Strato:

Draw cumulonimbus clouds

and stratus nimbus clouds:

How are these clouds similar?

How are they different?

What process of the water cycle forms clouds? What state of matter is water in clouds?

What type of cloud are you?