<u>Barometer</u>
How does a mercury barometer calculate the atmospheric pressure?
How does an aneroid barometer work?
What are some advantages that an aneroid barometer has over a mercury barometer?
Rain Gauge
Describe the dimensions of an official rain gauge?
Why does one inch in an official rain gauge actually measure only one - tenth of an inch of rain?
How is rainfall measured if it exceeds two inches?
Hygrometers
A hygrometer measures the humidity level in air and other gases. What is humidity?
Why can human hair (blond) be used to measure humidity using a mechanical hygrometer?

Anemometer (Wind Vane)
What are the two ways in which an anemometer (wind vane) measures the wind speed?
Thermometer
A thermometer really does not measure the temperature of something; rather it measures the temperature of itself. Explain this statement.
Name the four different types of thermometers that are explained on this link.
Explain how a liquid-in-glass thermometer works? What two substances are used in the thermometer's glass tube?
Explain how a deformation thermometer measures temperature?
<u>Satellites</u>
Why are satellites useful in predicting the weather?
What does a Doppler radar do that makes it so important in predicting weather?
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