Weather



How do meteorologist predict the weather?

Meteorologist sample a wide network of weather stations and use satellites images to map out he position of the large air masses circulating the earth. Since air masses interact in a relatively predictable ways, meteorologist are able to predict weather patterns.



Weather

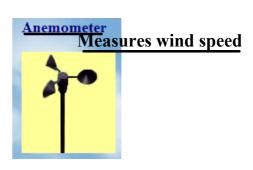


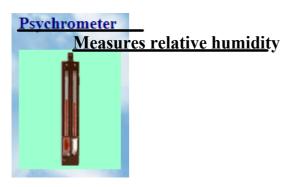
Tools used by meteorologist to predict the weather

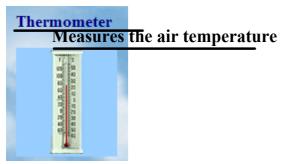
<u>Barometer</u>

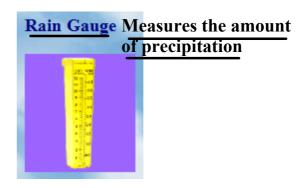
Barometer Measu

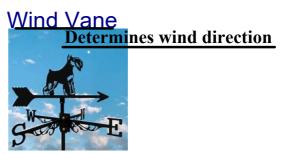
Measures air pressure
That air has a weight and presses against everything it touches as gravity pulls it to Earth.











Weather Instruments

A THERMOMETER measures the air temperature. Most thermometers are closed glass tubes containing liquids such as alcohol or mercury. When air around the tube heats the liquid, the liquid expands and moves up the tube. A scale then shows what the actual temperature is.



A BAROMETER measures air pressure. It tells you whether or not the pressure is rising or falling. A rising barometer means sunny and dry conditions, while a falling barometer means stormy and wet conditions. An Italian scientist named Torricelli built the first barometer in 1643.



A SLING PSYCHROMETER measures relative humidity, using the cooling effect of evaporation. Two thermometers are used in a sling psychrometer. Wet the cloth of one of the thermometers and swing the psychrometer around a few times. Water evaporates from the cloth, causing the temperatures on that thermomenter to be lower than the cloth.



How to Use a Sling Psychrometer (counds com

A RAIN GAUGE measures the amount of rain that has fallen over a specific time perior



A WIND VANE is an instrument that determines the direction from which the wind is blowing



An ANEMOMETER measures wind speed. The cups catch the wind, turning a dial attached to the



(S)

A WIND SOCK is a conical textile tube, which resembles a giant sock, designed to indicate wind



<u>WEATHER MAPS indicate atmospheric conditions</u> above a large portion of the Earth's surface Meteorologists use weather maps to forecast the weather.



HYGROMETER measures the water vapor content of air or the humidit



A WEATHER BALLOON measures weather conditions higher up in the atmosphere



Sillow do worther balloons work? (weathly cont

A COMPASS is a navigational instrument for finding directions



WEATHER SATELLITES are used to photograph and track large-scale air movements. Then
meteocologists compile and analyze the data with the help of computers.



Sanctions 101: How They Work & The Importance To Wanter Forecasting - YouTub

YOUR EYES are one of the best ways to help detect the weather. Always keep an eye at the sky and



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