

ΦΥΛΛΟ ΕΡΑΣΙΑΣ 2 ΦΤΙΑΧΝΩ ΜΕΤΕΟΡΟΛΟΓΙΚΟ ΣΤΑΘΜΟ

What is environmental monitoring?

Environmental monitoring is a technique designed to observe the surrounding environment, characterize its quality, and analyze its parameters. This is all done to accurately monitor the impact of human activity on the environment and vice versa.

STUDY THE WEATHER COLLECT DATA

MAKE A ANEMOSCOPE

A variety of instruments can be used to measure wind direction, such as the anemoscope, windsock, and wind vane. All these instruments work by moving to minimize air resistance. The way a weather vane is pointed by prevailing winds indicates the direction from which the wind is

FIND THE DIRECTION THE WIND IS BLOWING

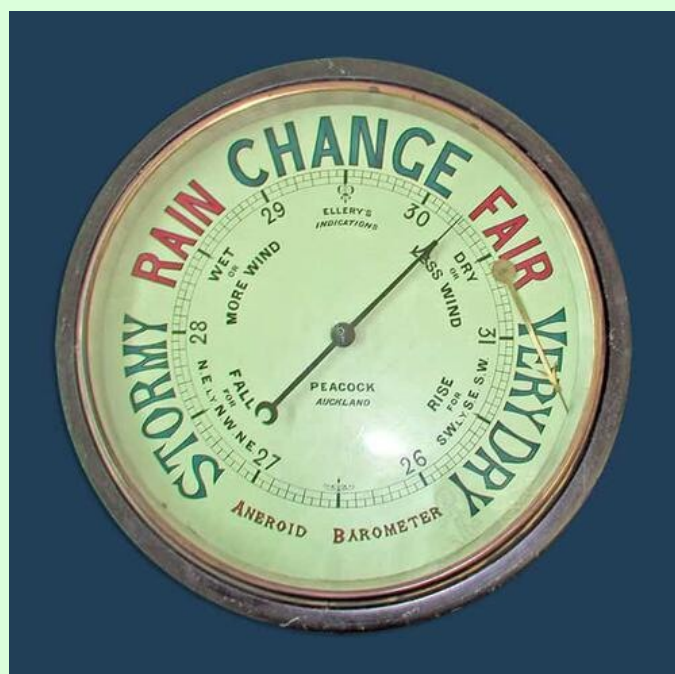


<https://youtu.be/-q50xsFAht0?si=mz3vC->

MESURE THE ATHMOSPHERIC PRESSURE

Atmospheric pressure is an indicator of weather. Changes in the atmosphere, including changes in air pressure, affect the weather. Meteorologists use barometers to predict short-term changes in the weather. A rapid drop in atmospheric pressure means that a low-pressure system is arriving.

<https://www.amnh.org/explore/ology/earth/make-your-own-weather-station/make-a-barometer>



MAKE AN ANEMOMETER

The instruments used to measure wind are known as anemometers and can record wind speed, direction and the strength of gusts.

The normal unit of wind speed is the knot
(nautical mile per hour = 0.51 m sec⁻¹ = 1.15 mph).



<https://youtu.be/Af0LB3abBsk?si=MO8jdnChjRqJT6bv>



MAKE A THERMOMETER

<https://www.sciencebuddies.org/stem-activities/homemade-thermometer>

<https://youtu.be/64od08I7WKk?si=FY0uxk799Ofcja>

MAKE YOUR OWN RAIN GAUGE

<https://www.wikihow.com/Build-a-Rain-Gauge>



ΠΗΓΕΣ
Science Buddies
National Geographic
American Museum of Natural History

https://www.teachengineering.org/activities/view/cub_weather_lesson02_activity1