



### The weather station at Rhyd-y-creuau

Rhyd-y-creuau (in north Wales) is part of a network of weather stations across the UK. Recordings are made daily at 09:00 GMT.

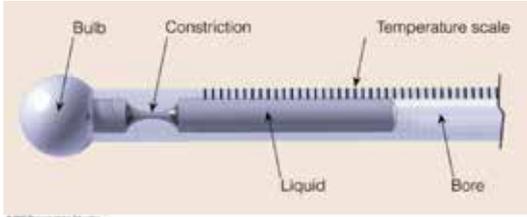
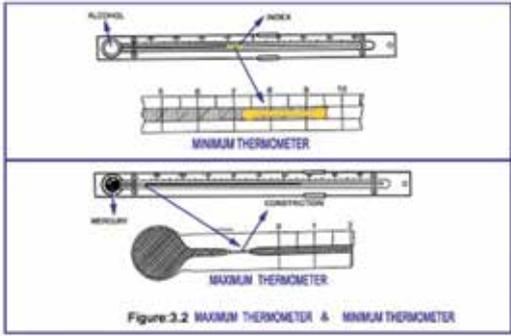
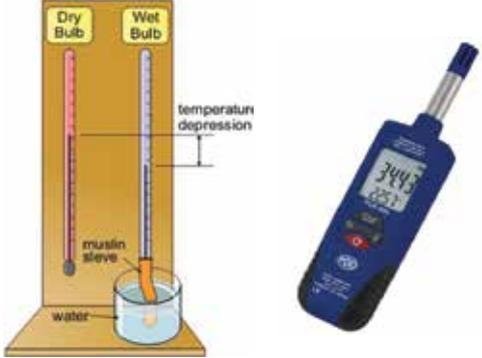
Your Live Lesson presenter will introduce each of the methods to record the weather at this weather station.

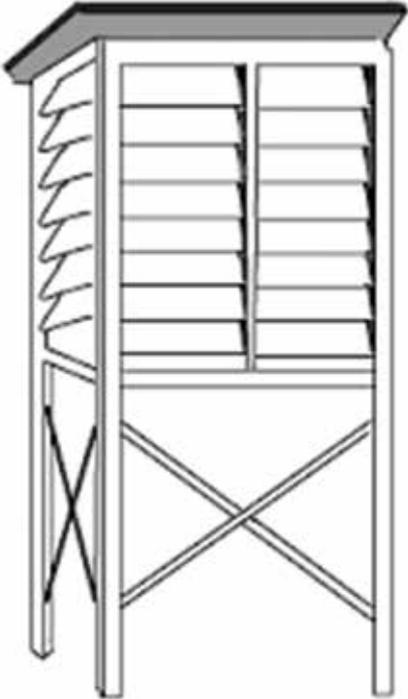
You can use the table below to record the weather conditions alongside the presenter. You can make summary notes and diagrams to summarise the methods used.

The pre-lesson resource pack has information for you to create your own weather station. Once built you can begin recording the weather in your location everyday.

You can add your data to a big data set.

Use this link to enter your results: <https://bit.ly/fieldworkliveWeatherData>

Equipment	Picture or diagram	Description / notes
<p>Maximum Thermometer</p> <p>Variable:</p> <p>Unit:</p>	 <p>The diagram shows a maximum thermometer with a bulb on the left containing liquid. A narrow constriction is located between the bulb and the main tube. The tube contains a column of liquid that rises to the highest temperature reached. A temperature scale is marked on the right side of the tube, and the bore is the narrow channel through which the liquid moves.</p>	
<p>Minimum Thermometer</p> <p>Variable:</p> <p>Unit:</p>	 <p>Figure 3.2 shows two types of thermometers. The top diagram is a minimum thermometer with an alcohol bulb and an index that slides down the tube to mark the lowest temperature. The bottom diagram is a maximum thermometer with a mercury bulb and a constriction that allows the liquid to rise to the highest temperature.</p>	
<p>Hygrometer (dry and wet bulb thermometer)</p> <p>Variable:</p> <p>Unit:</p>	 <p>The diagram illustrates a wet bulb thermometer where the bulb is wrapped in a muslin sleeve and placed in water. The difference between the dry bulb and wet bulb temperatures is used to determine relative humidity. The photograph shows a digital hygrometer with a display showing 34.4°C and 22.1°C.</p>	
<p>Ground thermometers</p> <p>Variable:</p> <p>Unit:</p>	 <p>The photograph shows a ground thermometer being inserted into the soil to measure the temperature at a specific depth.</p>	

Equipment	Picture or diagram	Description / notes
<p>Anemometer / wind vane</p> <p>Variable:</p> <p>Unit:</p>		
<p>Rain gauge</p> <p>Variable:</p> <p>Unit:</p>		
<p>Stevenson Screen</p>		<p>Where to position a weather station?</p>

Location: .....

Date: ..... Time: .....

Present weather

Cloud cover (oktas)

Cloud type

Forecast for the day

Dry bulb temperature (°C) =

Wet bulb temperature (°C) =

Difference in temperatures =

Minimum temperature (°C) =

Relative humidity

Maximum temperature (°C) =

Total rainfall (mm)

Minimum temperature (°C) =

Temperature at ground level (°C) =

Temperature 10 cm underground (°C) =

