



Weather Science Lab:

Discover and record key temperatures

Teacher sheet

The aim of this science lab is to introduce the concept of **Temperature** to the students and familiarise them with the **use of a thermometer**.

Through the measurements conducted they should discover **5 key temperatures**: when water freezes, when water boils, normal body temperature, outdoor temperature and indoor temperature.

It is also important that the students learn to determine the **unit** of their temperature measurements - **degrees Celsius (°C)** - and realise that in other parts of the world people use different units.

Procedure:

- Explain to the students how to use a thermometer
- Split them in 5 small groups which will rotate from one station to another
- All groups should record all 5 key temperatures and any comments they think are necessary on their student worksheet
- Teachers are advised to supervise the boiling water station, in order to make sure no one gets burnt by the steam or hot water
- At the end of the lesson students put the 5 station labels onto a large thermometer in order to understand the relative position of the 5 temperatures.
- The thermometer is taken to their class in order for them to proceed with the next activity.
- At the end of the lesson teachers make a link to real life in two ways:
 - They discuss the temperature under which it snows
 - They point out that normal body temperatures vary from species to species

Necessary materials/equipment:

- 5 Thermometers minimum (for the body temperature it is better to use electronic thermometers)
- Kettle to boil water
- Container with ice
- Large printed thermometer
- Labels depicting each station to stick onto large thermometer (see respective sheet)