2M027 Overview

Master Measuring and Comparing Temperatures

Rationale

In this step, pupils are introduced to measuring temperature in degrees Celsius. They may have looked at simple thermometers and temperatures in Science in Year 1 and will build on this knowledge to read different thermometer scales and record temperatures using '°C'.

Pupils will understand that the temperature is 'higher' when it is warmer and 'lower' when it is colder. They will develop their learning by comparing two given temperatures.

Key Stem Sentences

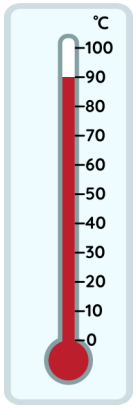
- The temperature is ___°C.
- When the thermometer reading is higher / lower, the temperature is warmer / colder.
- ___ is warmer / colder than ___

Key Vocabulary

- measure
- temperature / °C
- higher / warmer
- lower / colder

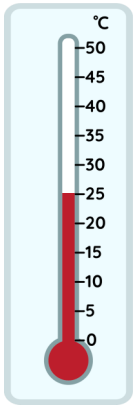
Key Representations

Thermometers



The temperature is 90°C.

90°C is warmer than 25°C.



The temperature is 25°C.

25°C is colder than 90°C.

When the thermometer reading is higher, the temperature is warmer.

Common Errors or Misconceptions

- Pupils may misread the scale.
- Pupils may have difficulty understanding the concept of a higher temperature being warmer and vice-versa.

Pupils will FLOURISH if they can...

- accurately measure temperature to the nearest °C.
- understand that temperature is higher when it is warmer and lower when it is colder.
- compare temperatures to identify whether one is warmer than, colder than or equal to another.
- explain their understanding using written sentences and mathematical proof.