

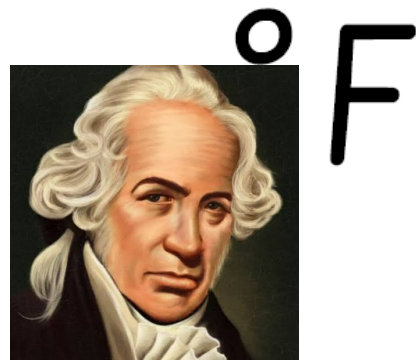
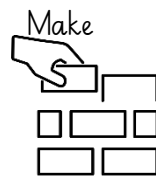
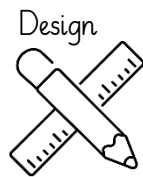
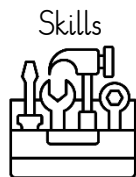
Year: 5
 Term: Summer 1
 Topic: Digital World—Monitoring devices



Where does this learning link to aspirations for the future?

Daniel Gabriel Fahrenheit and Anders Celsius were inventors whose work is still used today. Maybe you could invent something that is used in the future.

In DT we follow this five step process.

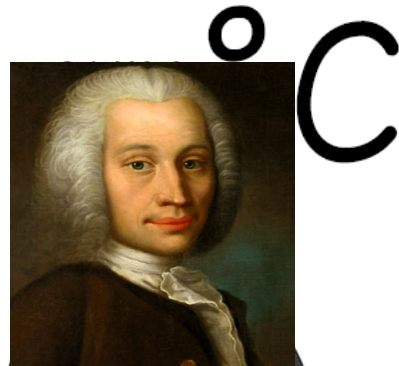


Daniel Gabriel Fahrenheit developed the world's first truly accurate thermometer in 1709, using a numerical scale he called the 'Fahrenheit' scale (°F).

Today we have a range of safe, non-toxic, smart and digital thermometers.



Later in 1742, Anders Celsius developed the 'Celsius' or 'Centigrade' scale (°C) that we use in the UK. It is based on the 0°C freezing point to 100°C boiling point of water.



Glossary

- Boolean** A form of data, which consists of (true) 1s and (false) 0s values.
- device** Equipment created for a certain purpose or job.
- durable** Lasts a long time with prolonged use without deteriorating very easily.
- monitoring device** An electronic device that observes and records something over time using data retrieved from one or more sensors.
- sensor** A tool or device that is designed to monitor, detect and respond to changes.
- synthetic** Something artificial. Made with substances that do not occur naturally.
- variable** This could be a number or text, that can change each time the program is run and often in combination with selection to change the end result of the program.
- versatile** Can be used in a number of ways, or has a variety of functions.
- water-resistant** Repels water from entering or absorbing something.
- Workplane (CAD)** A virtual mat to place and manipulate objects in CAD, to build 3D models.

Monitoring Devices



Security alarm systems use motion detectors to sense movement in a unwarranted place.



Fire alarms can detect smoke and some can also detect abnormally high temperatures.