

Year 3 - Digital Worlds - Electronic Charm - Term 2

Key Vocabulary

Control	To command something to change, such as the direction in which something moves.
Electronic	Devices that have some decision-making capabilities that require a processor.
Function	How an object or product operates or works.
Initiate	To start.
Programming loop	A piece of code that repeats until instructed to stop.
Monitor	To observe and record something over time.
Program	A series of code which instructs an electronic device to perform specific tasks.
Sensor	A tool or device that is designed to monitor, detect and respond to changes.
Simulator	Computer generated imitation of something such as a program test or product prototype.
User	A person that uses something.

Digital revolution

Since the 1980s, as scientific discoveries come about, technology has continued to develop, becoming more advanced and making everyday tasks easier. This included analogue to digital technologies. It's sometimes known as the Third Industrial Revolution and is still happening today.



Analogue



Digital

Smart wearables

A combination of electronics and items that you can wear to help you with day-to-day activities such as purchasing goods.



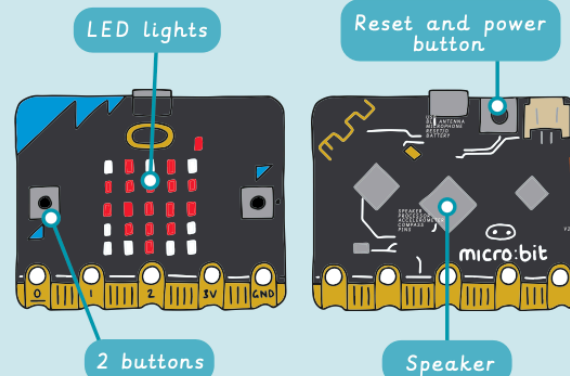
VR Goggles



Smart watch

What is a Micro:bit?

A programmable electronic device, that can be coded to carry out certain functions.



To know statements



I know there have been advances in technology.

I know the differences between analogue and digital.

I know some of the features of a Micro:bit.

I know how to adapt a given program that initiates a flashing LED panel design on the Micro:bit when a button is pressed, identifying when there are errors in their program.

I know some key features for a pouch and can use a template with adult support when cutting and assembling the pouch.

I can give an example of a 'point of sale' display, following basic design requirements using computer-aided design by drawing at least one shape with a textbox and bright choice of colours, with adult or peer support and express their opinion of their finished design.

What can you remember from previous units?

What electronic devices do you have at home? Do you know how they work?

What different types of lighting do you know?

Anything else you have learnt? What have you enjoyed?