

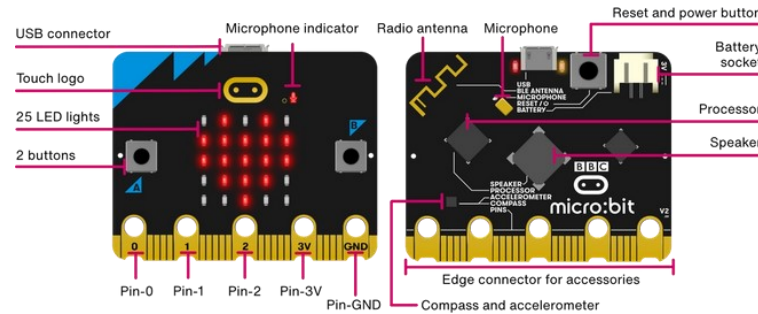
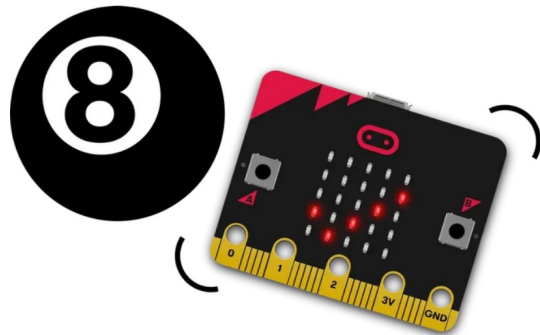
Year 4: Computing and Online Safety

Understanding Physical Systems

Meet **Micro:bit**. Micro:bit is a **pocket-sized computer** that introduces you to how **software** and **hardware** work together. It has an **LED light display**, **buttons**, **sensors** and many **input/output** features that, when programmed, let it interact with you and your world.

You will be **coding** your way through a range of projects, which will increase in **level**, **coding language** and Micro:bit features. These projects include Beating Heart, Animated Animals, Flashing Emotions and finally, Magic 8-Ball.

A **Magic 8-Ball** is recreated using the Micro:bit's **accelerometer**, its ability to make random numbers and its **LED display output** to show a tick for 'yes', a cross for 'no', or a 'meh' face for 'not sure'.



As you can see above, your BBC Micro:bit has a wide range of features for you to explore! To help you get started with each of these features, you will need to visit:

<https://microbit.org/projects/make-it-code-it/>

Managing Information Online

How does what you **post online** affect your **identity**? Your identity is made up from different parts of your **culture**, **experiences**, and **interests**. You are **unique**, for example, due to your personality, where you live, or where your family is from.

When we post **selfies**, or other images, these will often lead people to make **assumptions** about who we are. An assumption is something that someone thinks is true, but may not be true.

Sharing things online that show your identity can feel good. It's like **showing off** who you are to the world! And we all have our own **unique combination** of things that make us who we are. But we should think **carefully** about what we share about ourselves online. Remember that others might make **assumptions** about us!

We define who we are.



CRC Article 29: All children have the right to be the best that they can be.
CRC Article 19: All children have the right to be safe.



Vocabulary

accelerometer	An instrument for measuring acceleration.
assumption	Something that someone thinks is true but in reality, may or may not be.
coding	The process of writing computer programs.
culture	The ideas and usual beliefs of a group of people or society.
experiences	Events which leave an impression on someone.
features	An aspect of something, e.g., the features of a Micro:bit.
hardware	The physical features of a computer.
identity	The interests that make you unique.
input	Information that is put into a computer.
interests	Things that make you curious, happy and excited to find out more about.
LED light display	A flat panel of lights, often used for a video display.
Micro:bit	A pocket-sized computer that allows you to use a coding program.
output	A place where information or power leaves a computer system.
personality	The qualities and characteristics of a person.
selfie	A photo a person takes of themselves.
sensors	A device which detects, measures and records the instructions given.
software	The programs and other operating information used by a computer.
unique	Being the only one of its kind; unlike anyone else.

