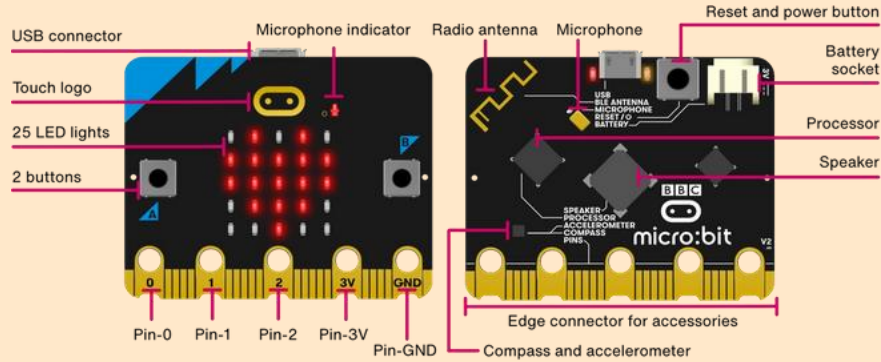
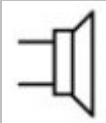




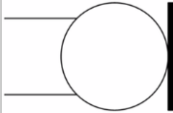



Microbit v2 Controller



Micro:bit V2 What is it? The BBC 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.

Make:Code This is a block code creator that can be programmed to run the Micro:bit. There is an online Micro:bit simulator to check if your Make:Code would run if downloaded to the physical micro:bit.

Feature	Is there an electrical symbol?	What does this feature do?
Speaker		The new micro:bit with sound has a built-in speaker so you even more easily add music and new sounds to your projects.
Battery socket		Instead of powering your micro:bit from the USB socket, you can unplug it from your computer and use a battery pack instead. This is really useful if you want to take your micro:bit outside, wear it or play games with it. It can run for a long time using just two AAA batteries.

Feature	Is there an electrical symbol?	What does this feature do?
Buttons	N/A	The micro:bit has two buttons on the front that can be used separately or together to make things happen.
LED display and light sensor	LED Light Emitting Diodes 	25 LEDs arranged in a 5x5 grid make up the display for showing pictures, words and numbers. They can also act as sensors, measuring how much light is falling on your micro:bit.
Microphone LED		You can create programs that react to loud and quiet sounds and measure noise levels with the new micro:bit's built-in microphone. The microphone LED shows you when the microphone is actively measuring sound levels. Just to the left of the LED, you'll see a small hole where the sound goes in.
Radio & Bluetooth antenna	Radio Antenna Bluetooth 	Your micro:bit can communicate with other micro:bits by radio, and with other devices using Bluetooth.
Processor & temperature sensor	Thermistor 	The micro:bit's processor is its brain, fetching, decoding and carrying out your instructions. It also contains a temperature sensor so you can measure how warm or cold your environment is.
Compass	N/A	Find magnetic North or measure the strength of magnetic fields using the micro:bit's compass. It can measure magnetic fields in three dimensions, so you can use this for science experiments or for making simple door or window alarms.
Accelerometer	N/A	The micro:bit's accelerometer measures forces in 3 dimensions, including gravity, so your projects can tell which way up your micro:bit is. You can use it for science experiments, add shake inputs to games or make simple alarms that alert you when someone moves your things.
Micro USB socket		Download programs to your micro:bit from a computer and power it using its USB interface.