

Year: 5
 Term: Spring 1
 Topic: Programming - Selection in physical computing (Micro:bit)

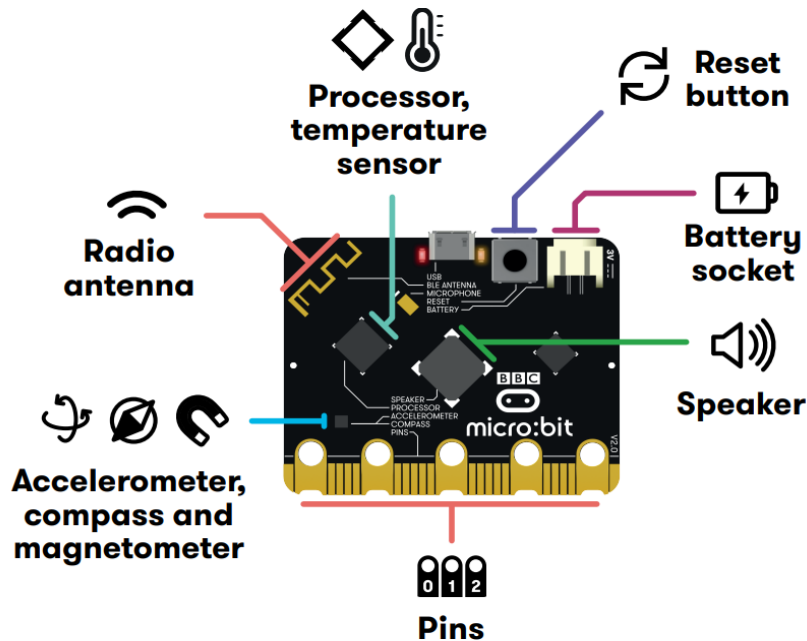
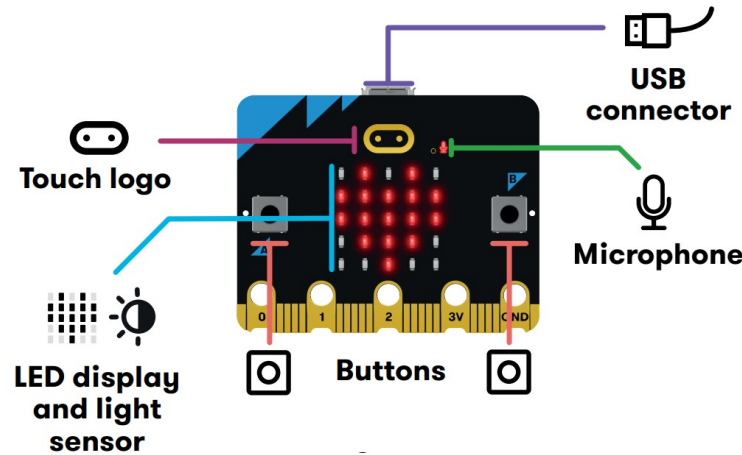
We use algorithms (a set of instructions to perform a task) which we can plan, model and test, in order to create accurate and imaginative robotic actions.

Input: The data which is entered into a computer or device.

Output Device: The device which receives data from a computer or device.

The **Micro:bit** is an input, process, output device that can be programmed. If, then, else programs are used to direct the flow of a program.

Coding for Micro:bit is programmed on the computers and then downloaded onto the devices. Coding can be tested and debugged on a laptop before testing it on the Micro:bit.



Glossary

condition

If '_____' is true, then the program will follow one action, if it's not then it will follow a different one

infinite loop

A set of instructions in a computer program that repeats forever because it never reaches a condition that tells it to stop.

selection

When a program makes a decision or answers a question.

sensor

Senses change in its environment and sends that information to a computer.

trace

Following code or a program to work out what it does and identify any problems.

variable

A value that can be set and changed.



Programming