## Y5/6 - How does the cookie crumble?

A microcontroller is a small device that can be programmed to control devices that are connected to it.

This microcontroller is a Crumble controller, which can control LEDs and motors.


Connecting your Crumble: The Sparkle's LED will flash red three limes when you ve connected it correctly.


A motor can start, stop, spin forwards, spin backwards and go at difgerentyspeeds.

$A_{n}$ LED is a light-emitting diode. When electricity is passed through an LED, it produces light.
The LED that is controlled by the Crumble controller is called a sparkle. The crocodile clips provide power to light the LED and data to control it.

A push switch can be used as an input for a Crumble controller and can be used in condilion commands.
This code uses a push switch being pressed as a condilion. When the switch is being pressed (condition is true) the circuit is described as high (HI). When the switch is not pressed (condition is false), the circuit is described as low (LO).



