

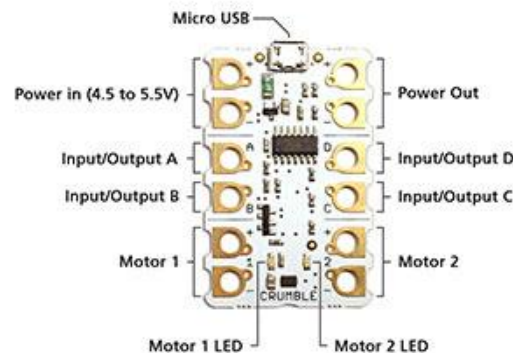
Year 5 Merlins Computing Spring 2

Selection in physical computing

Key Vocabulary	Definition
components	A part, such as a buzzer, LED, or sensor.
condition	A statement that needs to be met to allow something to happen and is true or false.
Crumble	A programmable device used for physical computing. It has 4 input / output terminals, which can connect LEDs, switches and other interesting add-ons.
LED lights	(Light emitting diode) A type of bulb which can produce many different colours of light.
microcontroller	Something small that can be used to control other things.
motor	A machine, especially one powered by electricity, that supplies power to moving parts.
output devices	Equipment connected to a computer that is used to transfer data out of the computer, either to a human user (e.g. as images on a monitor or sound from a loudspeaker) or to some form of permanent record (e.g. printed text).
Selection	An algorithm that uses the "If... then..." instructions.

Crumble controller

The crumble controller can be programmed to perform many different outputs, including lighting an LED, making noise through a buzzer, and powering a motor.

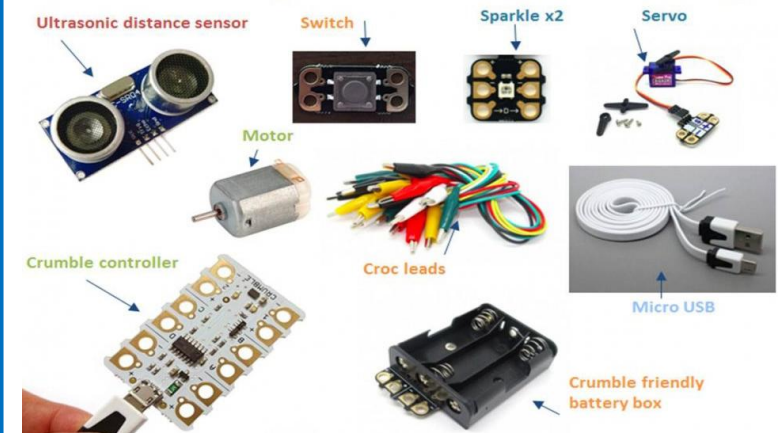


Algorithm

The programming for Spring halfterm will be important in the development of the algorithms for the Crumbles; the building blocks to the right show how the crumble is programmed.



Crumble components



Some of the components which can be used with the Crumbles:

- Switches
- Batteries and motors
- LED lights
- Sparkles