

# Computing (Computer Science) - Year 5

# How do alarms work?

#### Big Idea:

Electrical appliances are programmed to work by humans and can be started and stopped in different ways.

### What should I already know?

- How to write and debug a program controlling physical systems.
- How to program an electrical circuit to turn on/off depending on the input.

## What will I know by the end of this unit?

## How to adapt an algorithm depending on the type of input. **Primary Crumble: Push Switch** Reed Switch Toggle Switch Light-Dependant Micro Switch Tilt Switch Resistor Press the switch to turn on Press the switch to turn off program start program start turn all sparkles off turn all sparkles off wait until (A) is (HI) wait until (A) is (HI) it (250) n set sparkle 🕕 to 📕 do until (A) is (HI) set sparkle 🕕 to 📕 250 milli turn sparkle 0 off turn sparkle 0 off set sparkle (1) to set sparkle 🚺 to 🔃 250 milliseconds

#### Kev vocabulary:

turn sparkle 1 off

Input	The action performed by a user on a device.
Output	The action performed by the device.
Commands	Instructions given to computer device.
Pattern	A sequence that reoccurs.
Hardware	The physical components of a machine/device.
Software	The programs and algorithms used to make a
	machine/device function.