Design Technology: Torches and Gadgets Electrical Systems

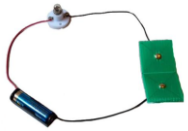
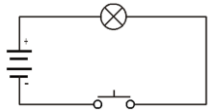
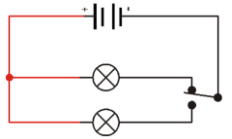
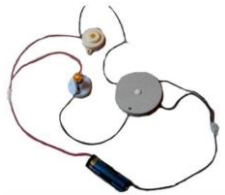
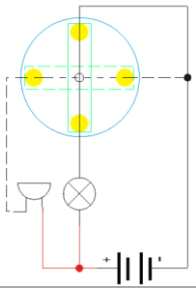
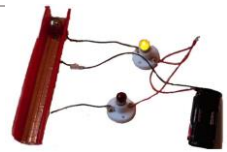
Year 6

Key vocabulary

contacts	the part of a switch that completes or interrupts a circuit affecting an electrical current
exploded diagrams	a drawing or photograph that shows the individual parts of a mechanism separately and in more detail
cross-section	the view inside a product
components (from Science learning)	basic electrical elements that can be connected together to make a circuit
output devices	components that produce an outcome e.g. buzzers, bulbs
input devices	components that are used to control an electrical circuit e.g. switches, sensors

Key knowledge

There are different types of switches that work in different ways:

push switch			Used to complete a circuit as long as the switch is pressed.
toggle switch /two-way toggle switch			Either on or off; so you don't have to hold the switch on all the time.
two-way rotary switch			A more complex switch that could be used in a product where two separate components need to be controlled e.g. a bulb and a buzzer.
tilt switch			Ideal for or alarms.

We are building on our knowledge of Electricity in Science

We are building on our knowledge from Steady Hand Testers in year 4