

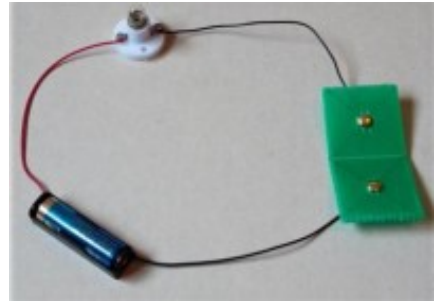
Electrical Systems—A light up card.

- Skills**
- Create
 - Design
 - Plan
 - Recognise
 - Sequence
 - Justify
 - Refine
 - Identify
 - Evaluate

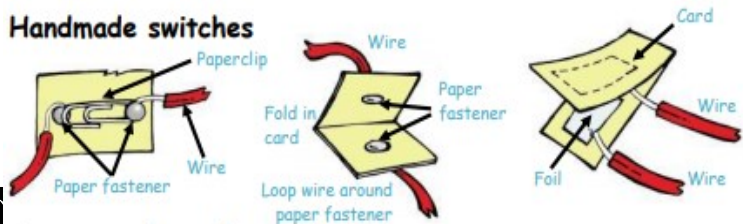


Key Knowledge

A circuit needs to be complete for electricity to pass through. To make a circuit, you need a battery, wires and a bulb, motor or buzzer. Switches work by breaking the circuit.



Handmade switches



- Paperclip
- Wire
- Paper fastener
- Fold in card
- Loop wire around paper fastener
- Card
- Foil

- Key Questions.**
- What do good cards look like?
 - What part of the card will light up?
 - How will I make a suitable switch?
 - How can I keep my circuit hidden apart from the bulb?
 - In what order will I need to make my light?
 - How could the end result have been improved?

- Key vocabulary**
- Circuit – path through which electricity passes.
 - Prototype – a model made to test whether a design will work.
 - System - a set of related parts or components that together achieve a desired outcome.
 - Output devices - components that produce an outcome e.g. bulbs and buzzers.
 - Input devices - components that are used to control an electrical circuit e.g. switches.

