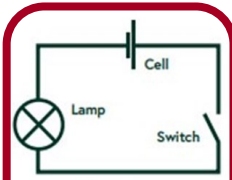


circuit



Circuit diagram
(drawn using symbols)

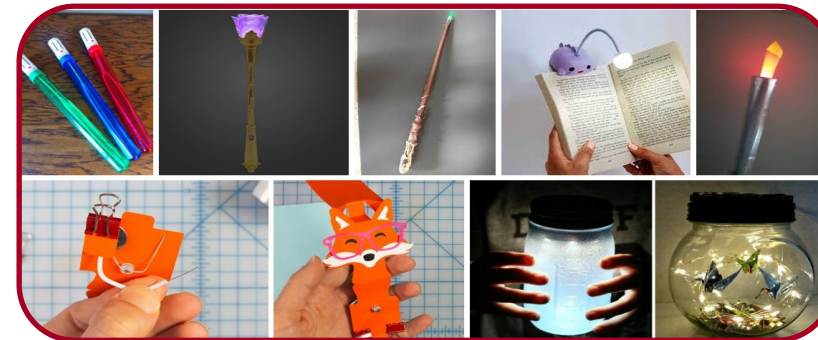
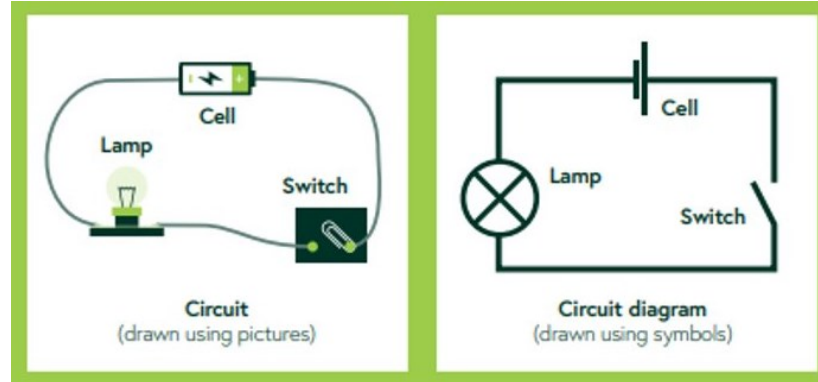
toggle switch



push to make



push to break
switch



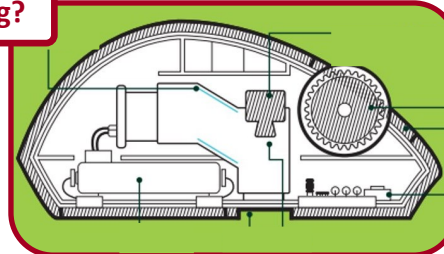
Glossary:

- Conductor – a material which allows an electric current to pass through it.
- Circuit – path through which electricity passes.
- Insulator – a material which does not easily allow electric current to pass through it.
- Prototype – a model made to test whether a design will work.
- Push-to-break switch – a switch turned off by pressing it.
- Push-to-make switch – a switch turned on by pressing it.
- Reed switch – a switch operated by a magnet.
- Toggle switch – a switch operated when a lever is pressed.
- 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.

Sticky Knowledge:

- Know what a circuit is.
- Know what a prototype is and how it is integral to the design process.
- Know that there are a variety of switch styles available (push to make, push to break, toggle) and know how each works.
- Know the dangers of mains electricity.
- Know what a cross sectional drawing is.
- Know we can be innovative in solving everyday problems

What is a cross sectional drawing?



Electrical Symbols



SDG LINK

