



Electricity

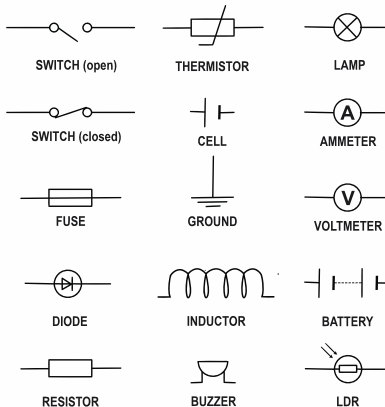
Can we vary the effects of electricity?

YEAR 6
Term 2

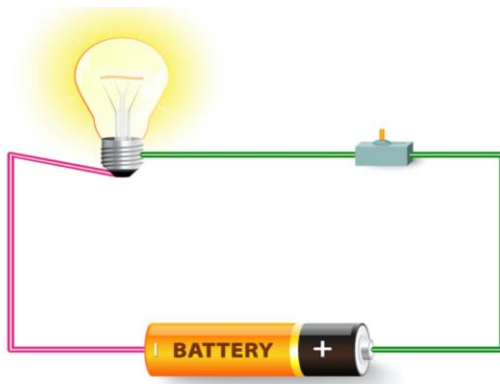
Key Facts:

- When a light is switched on, you are sending a flow of electrons around the circuit.
- Metals such as coppers, aluminium, zinc and gold are good conductors of electricity.
- Light bulbs turn electricity into light due to resistance.
- Friction on an object creates an electric charge.
- A wind up torch works through a dynamo which turns mechanical energy through a simple electromagnet.
- Insulators prevent electric flow so you don't receive an electric shock.

Electric circuit symbols



A simple electric circuit



Key Scientists:

- **Alessandro Volta** - an Italian physicist whose invention of the electric battery provided the first source of continuous current.
- **Nikola Tesla** – a Serbian American inventor and engineer who made dozens of breakthroughs in the production transmission and application of electric power. He also discovered and patented the rotating magnetic field, the basis of most alternating-current machinery.

Key Vocabulary:

- static electricity
- charge
- friction
- discharge
- circuit
- filament
- component
- series
- switch
- voltage
- output
- power
- insulator
- conductor
- fuse
- synchronised
- receiver
- sensor
- variable
- resistor