

Y4 Science : Electricity

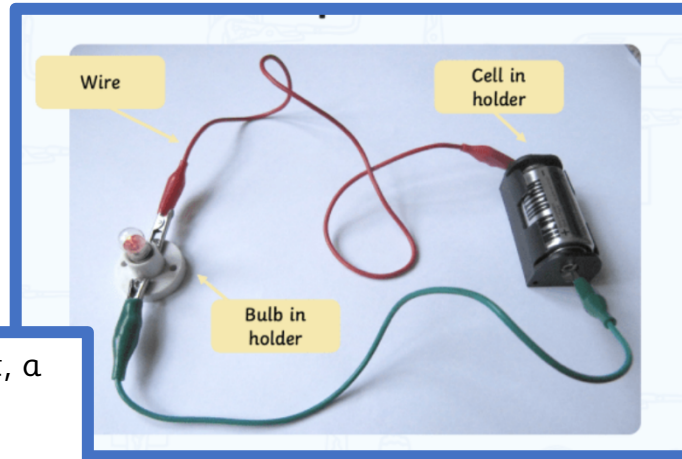
Many household **devices** and **appliances** run on electricity. Some plug in to the **mains** and others run on **batteries**.

Batteries



A **complete electrical circuit** consists of a **cell** or **battery** connected to a **component** using wires.

Mains electricity



If there is a break in the circuit, a **loose connection**, or a **short circuit** the component will not work.



cell/battery



bulb and bulb holder

A **switch** can be added to the circuit to turn the components on and off.

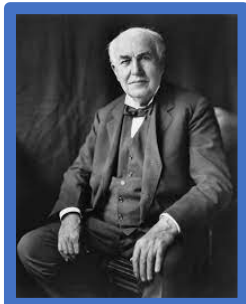


crocodile clip wires

battery holder

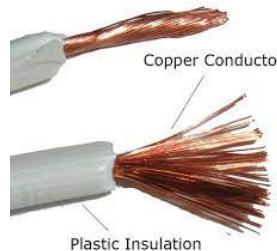


switch



Thomas Edison
1847-1931
-developed the light bulb.

Metals are good **conductors** so they can be used as wires in a circuit.



Non-metallic solids are **insulators** except for graphite (pencil lead).

buzzer



motor