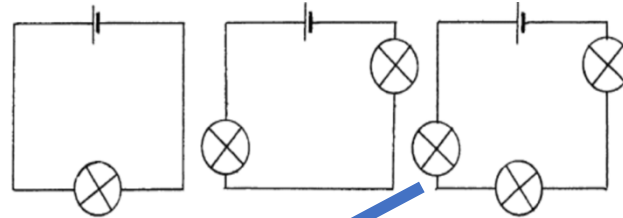


# Y6 Science: Electricity

**Circuit** = a complete circular path that electricity can flow through.

In a **complete circuit**, the components will work.

## Circuit diagrams



**Component** = any single part of the electrical circuit, e.g. a bulb, wire, motor etc.



## What I remember from Y4:

- devices can run on the mains or batteries
- a break in a circuit, stops it from working, e.g. a switch
- name some conductors and insulators

Adding more bulbs to the circuit will make each bulb less bright (or more buzzers would make them quieter).

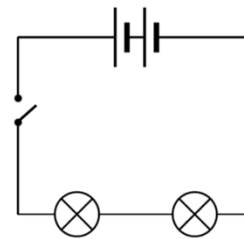
## Voltage

The higher the voltage of the battery, the better the components in the circuit will work – bulbs will be brighter, motors spin faster, buzzers sound louder.

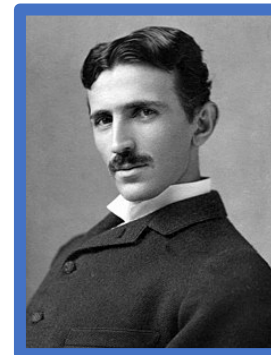
Adding more cells to a circuit will make this happen too!

## Circuit diagram symbols

cell			bulb
battery			motor
wire			buzzer
switch			



An off (open) **switch** breaks the circuit (**incomplete**) so electricity cannot flow, and the components do not work.



**Nikola Tesla** (1856-1943)  
Inventor best known for developing the alternating current (AC) electrical supply system.