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| St Julie Catholic Primary School – Science |
| Topic: Electricity | Year: 6 | Strand: Physics |



**What should I already know?**

* Identify common appliances that run on electricity
* construct a simple series electrical circuit, identifying and naming its basic parts
* identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery
* recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit
* Know the difference between a conductor or an insulator



By the end of this topic I will:

**Know** that adding more cells to a complete circuit will make a bulb brighter, a motor spin faster or a buzzer make a louder sound.

**Know** that if you use a battery with a higher voltage, the same thing happens.

**Know** that adding more bulbs to a circuit will make each bulb less bright.

**Know** that using more motors or buzzers, each motor will spin more slowly and each buzzer will be quieter.

**Know** that turning a switch off (open) breaks a circuit so the circuit is not complete and electricity cannot flow.

**Know** that any bulbs, motors or buzzers will then turn off as well.

**Know** that you circuit symbols can be used to draw simple circuit diagrams.

**Scientific skills**

In investigations I will:

* recognising and control variables.
* decide what observations or measurements to make over time and for how long.
* look for patterns and relationships

**STICKY KNOWLEDGE**