



Year: 4

Subject: Design Technology

Title:
Electrical Systems

What key knowledge do I need to have before this unit?

- Know what a circuit is
- Know what is needed to make a circuit to work
- Know what conductors and insulators.

Key outcomes:

What I need to know by the end of this unit of work:

- 1) Generate and clarify ideas to develop design criteria including appearance and purpose.
- 2) Create a design brief, outlining key information.
- 3) Evaluate existing products.
- 4) Design and create a new product
- 5) Evaluate your product.

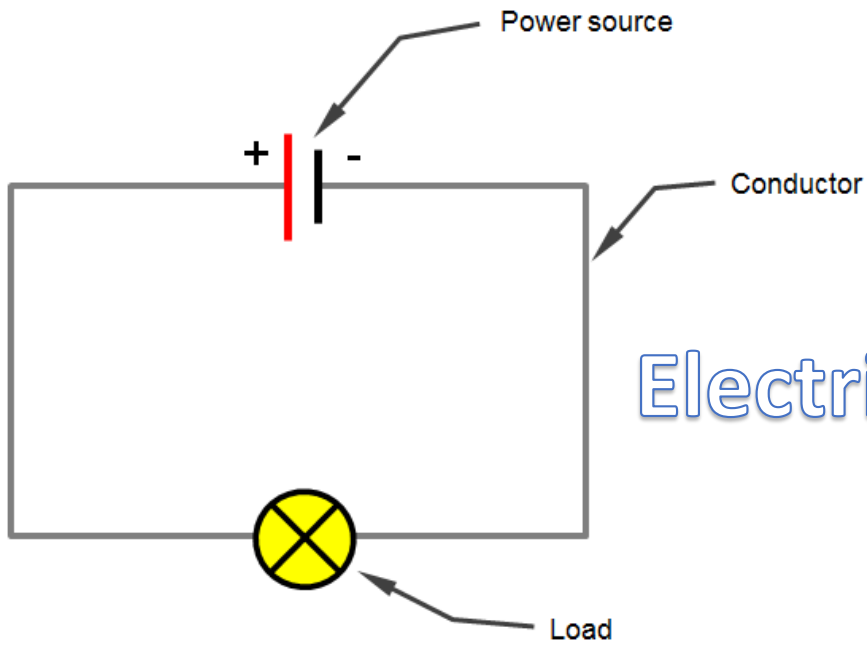
Key knowledge:

Key
Vocabulary:

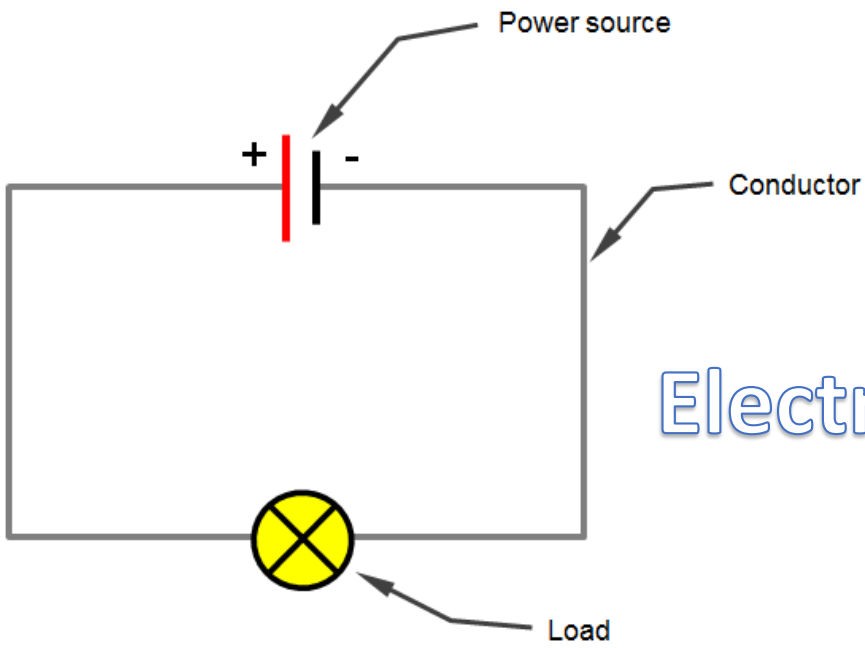
Definition:

A circuit is a closed path or loop that allows the flow of electricity to move back to its starting point.
Know that all products have a purpose.
Know that conductors allow electricity to flow.
Insulators stop the flow of electricity.
An electric circuit contains a power source.
Electrical systems are a group of parts that work together to transport electricity around a circuit.

Battery- power source
Buzzer- gives off a sound
Circuit diagram- the drawn version of a circuit
Electricity- a form of energy created by the flow of tiny charged particles.
Insulator- materials which do not allow an electrical current to flow easily.
Switch- stops and allows electricity to flow
Bulb- gives off light
Conductor- are materials which allow electrical current to flow through them easily.
Wire



Electrical Systems



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