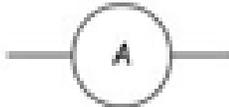


3.) Circuit components and their symbols

 Battery	 Cell	 Resistor
 Bulb	 Ammeter	 Switch

-A cell stores electrical charge. Two or more cells connected together are known as a battery

-Resistors limit the flow of electrical charge

-Bulbs (lamps) contain a wire which glows when charge passes through it

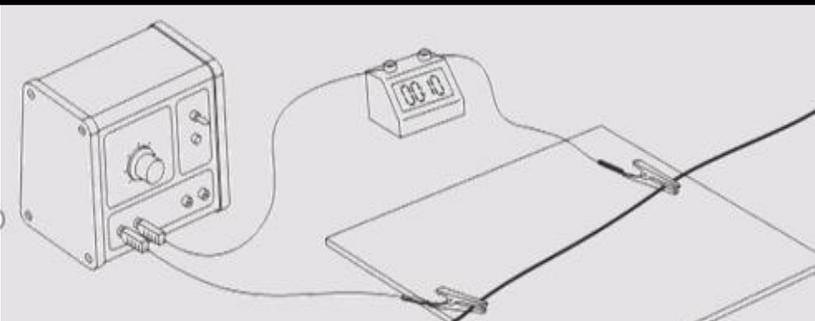
-Ammeters measure the current

-Switches complete or break the circuit

1. Key Words

1	Electron	Tiny particles which carry electrical charge
2	Current	A measurement of how quickly electrons are flowing around a circuit
3	Potential difference	The driving force pushing electrons around a circuit
4	Resistance	A measurement of how difficult it is for electrons to pass around a circuit
5	Conductor	Materials which allow electrons to flow through them
6	Insulator	Materials which do not allow electrons to flow through them
7	Static electricity	The build up of electrical charge on insulating surfaces
8	Shock	When electrons flow through a person
9	Component	A device placed in an electrical circuit e.g. a bulb or ammeter

4.) Measuring the resistance of a wire



Equipment needed: 1m wire, meter rule, ammeter, power pack, connecting wires, crocodile clips

Method:

- Set up the circuit as shown in the drawing
- Clip the crocodile clips onto the wire 10cm apart
- Switch on and read the ammeter. Switch off again
- Move the crocodile clips until they are 20cm apart, and repeat step C
- Keep moving the crocodile clips 10cm apart and measuring until you have completed the table

2.) Command words

1	Describe	Report details about something
2	State	Clearly say what something is
3	Explain	Make an idea clear to someone by revealing relevant facts about it
4	Construct	To make or put something together whether something physical (like an electrical circuit) or a diagram or table.
5	Conclude	Arrive at a judgement about something; for example how successful an experiment has been

5.) Series and parallel circuits

- Components can be connected in series or in parallel
- Components in series are connected in a row, next to one another
- Components in parallel are connected in parallel loops
- To check if something is a parallel circuit, trace round the circuit with your finger. If your finger can take more than one path, your components are in parallel
- Bulbs connected in series will get dimmer as you add more bulbs
- Bulbs connected in parallel will keep their brightness even when more circuit loops are added

