



Science		Year 4	
Focus: Electricity			
Age related vocabulary			
circuit	A pathway that electricity can flow through. It will always contain wires and a power supply.	insulator	A material that <b>DOES NOT ALLOW</b> electricity to flow through it
electricity	The flow of an electrical current through a material	conductor	A material that <b>WILL ALLOW</b> electricity to flow through it
battery	A device that stores electrical energy as a chemical	mains electricity	Electricity that flows through wires into a building
appliance	A piece of equipment designed to perform a task e.g. whisk or bottle opener	electrical appliance	An appliance which relies on electricity for it to work e.g. washing machine or hairdryer

Carlton Assessment Grid			
Success Criteria	Pupil Reflection		Teacher Assessment
I can identify and classify common appliances that run on electricity	Before <input type="checkbox"/>	After <input type="checkbox"/>	
I can identify circuit components and build working circuits	Before <input type="checkbox"/>	After <input type="checkbox"/>	
I can investigate whether circuits are complete or incomplete	Before <input type="checkbox"/>	After <input type="checkbox"/>	
I can investigate which materials are electrical conductors or insulators	Before <input type="checkbox"/>	After <input type="checkbox"/>	
I can investigate and explain how a switch works in a circuit	Before <input type="checkbox"/>	After <input type="checkbox"/>	

## Key Knowledge

### Components of a circuit:

**cell:** Normally, we would call this a **battery** but scientifically, this is a cell. Two or more cells joined together form a **battery**.



**bulb:** Lights up in a complete **circuit**.



**buzzer:** Makes a noise in a complete **circuit**.



**wires:** Used to connect the different components in the **circuit** together.



**motor:** Produces movement in a complete **circuit**.



**switch:** Used to turn other components in the **circuit** on or off.

