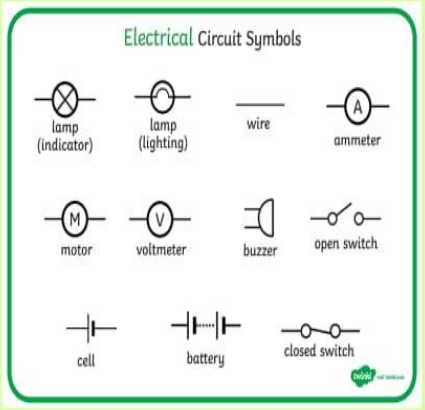
Big Question: Can we make things buzz and light?

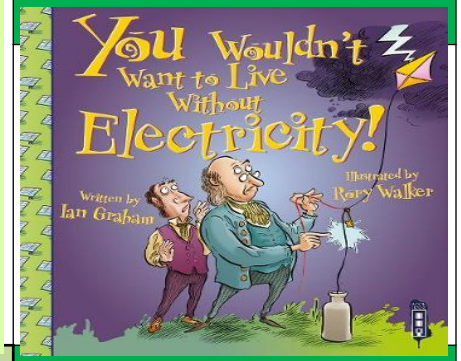
LQ1	What do we know?
LQ 2	Why did that heat travel to my hand?
LQ 3	Can you light the bulb safely?
LQ 4	Is a conductor part of electricity and not just in an orchestra?
LQ 5	Can you make it buzz to win?
LQ 6	Can you stop the buzz? Do we know our conductors AND insulators?
End Product	Using knowledge gained to make a torch in DT.
Links to topics	KS 1 looks at materials (to help us identify conductors and insulators.)
	Year 6- revisits and experiments with more complex circuits.
Character links	Reflective during experiments. Resilient if you can't complete a circuit at first. Responsible when using electricity. Respectful when working in a group.



Sticky Knowledge.

- The non- renewable energies are: the fossil fuels- gas, coal and oil.
- Thomas Edison was a very famous inventor who helped us make the most of electricity from bulbs to fuses.
- When an electric charge builds up on the surface of an object it makes static electricity. This is why we sometimes have a small electric shock.
- A complete circuit has a continuous flow of energy unless it is broken.
- Electricity is measured in Watts.
- A good conductor allows electric current to pass through, whereas a good insulator doesn't.
- Electricity travels at the speed of light, which is more than 186,000 miles per hour.

Exciting Books



Vocabulary

Conductor, insulator, electricity, circuit, switch, electrocute, battery, plug, mains, appliance, device, wire, crocodile clip, bulb, buzzer, connection, power, cell, charge, flow, waves, current, generate, power, appliance, energy source, renewable, non-renewable, fossil fuels.