Knowledge Organiser Vocabulary			
	Voc	cabulary	
pictures	Key word	definition	
	circuit	a complete route which an electric cur- rent can flow through	
	current	a flow of electricity through a wire	
•	battery	a small device that provides power for electrical items	
	appliance	something that uses electricity	
S Electrical Conductors Silver gold copper steel sea water	conductor	any material that electricity can pass through or along	
Electrical Insulators O	insulator	any material that electricity cannot pass through or along	
	buzzer	an electrical device that makes a buzz- ing sound	
	motor	a device that changes electrical energy into movement	
	wire	a long thin piece of metal that carries an electrical current. It is often covered in plastic for safety	
Switched On Kids	electrical safety	the concept that electricity can be haz- ardous is not used appropriately	

Key facts

Electricity has been known about since the Ancient Greeks but it wasn't until the 16th century that a physicist, named William Gilbert, used the word 'electric.'

In 1752, Benjamin Franklin carried out an experiment with a thunderstorm in which he found out that lightning was actually electrically charges and could give people a shock.

Thomas Edison, in 1879, created the first long-lasting light bulb. Although it started with just one bulb, he soon managed to generate enough electricity to power a neighbourhood.

Since then, the use of electricity has become vital to our everyday life.



Further Reading

Check out: https://www.dkfindout.com/uk/science/electricity/ for lots more information on electricity

GLUE ME

What I am expected to know from the National curriculum

- identify common appliances that run on electricity
- construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires bulbs, switches and buzzers
- 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
- recognise some common conductors and insulators, and associate metals with being good conductors
- QR code for end of unit assessment:



QUESTIONS TO DEEPEN YOUR LEARNING

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Character	Critical Thinking	Creativity	Creativity Communication	Citizenship	Collaboration
Which parts of	Which parts of \mid Why do I need \mid How can I inves- \mid How could I pre-	How can I inves-	How could I pre-	How does elec-	What have other
electricity do I	to know about	tigate electrici-	sent my electri-	tricity have an	discovered about
need to under-	electricity?	,	cal investiga-	effect on every-	electricity?
stand?			tions?	one?	