

# YEAR 4

	EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
<b>ELECTRICITY PHYSICS</b>	<p>The three <b>Prime ELGS</b> of <b>Communication and Language, PSED and Physical Development</b> provide the foundations of which all other learning is built upon.</p> <p>No <b>Specific ELG</b> links.</p>				<p>Identify <b>common appliances that run on electricity</b></p> <p>Construct a <b>simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers</b></p> <p>Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a <b>complete loop with a battery</b></p> <p>Recognise that a <b>switch</b> opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit</p> <p>Recognise some common <b>conductors and insulators</b>, and associate metals with being good conductors</p>		<p>Associate the brightness of a lamp or the volume of a buzzer with the number and <b>voltage of cells used in the circuit</b></p> <p>Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches</p> <p>Use recognised <b>symbols</b> when representing a <b>simple circuit in a diagram</b></p>

## ELECTRICITY COMPOSITES

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

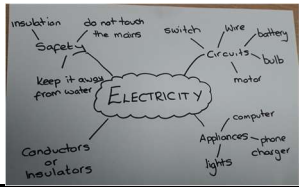
Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery

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

## COMPONENTS

	1	2	3	4	5	6	End Point
	Which appliances need electricity to work?	Can I construct and draw a simple electrical circuit?	Can I explore complete electrical circuits?	How does an electrical switch work?	Which materials conduct electricity?	Do I understand the dangers of electricity?	Children are able to create a working simple circuit with a switch

<b>CONCEPTS</b> 	ENERGY	ENERGY	ENERGY	ENERGY	ENERGY	ENERGY	Understand that energy is need to create a working circuit
<b>SKILLS</b>	Identify <b>common appliances that run on electricity</b>	Construct a <b>simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers</b>	Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a <b>complete loop with a battery</b>	Recognise that a <b>switch</b> opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit Recognise some common	Recognise some common <b>conductors and insulators</b> , and associate metals with being good conductors	Recognise some common <b>conductors and insulators</b> , and associate metals with being good conductors  Understanding the dangers of electricity	Construct a <b>simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers</b> Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a <b>complete loop with a battery</b>
<b>KNOWLEDGE</b> <a href="#">Science: Electricity: Year 4 Knowledge Organiser - Twinkl</a>	There are different electrical appliances	Circuits can be drawn	Create a simple electrical circuit	Use a switch in a circuit	Know what insulators and conductors are	Know what insulators and conductors are	Know how to crea5te an electrical circuit using different components
<b>LESSON LINK</b>	<a href="#">MTP Term 3</a>	<a href="#">MTP Term 3</a>	<a href="#">MTP Term 3</a>	<a href="#">MTP Term 3</a>	<a href="#">MTP Term 3</a>	<a href="#">MTP Term 3</a>	
<b>PROGRESSIVE VOCABULARY</b>	electricity appliance	electrical circuit cell wire bulb switch buzzer	electrical circuit cell battery loop	electrical circuit switch	conductor insulator	conductor insulator	Articulate and recognise subject specific vocabulary
<b>CURRICULUM EXPERIENCES</b>	Chn to explore the sounds and what each object does to create the sound	Chn to explore the sound a coin makes on a drum when dropped from different	Chn to carry out investigation using different materials to 'muffle' sound	Water bottle xylophones			Children to apply their knowledge to being able to change sounds by varying how they bare produced

<b>END POINT</b>	Children to be describe how sounds are made	Children will now how to change the volume of a sound	Children will now how to change the volume of a sound	Children will now how to change the Children to explore the pitch of sounds	Children will know that the further away they are from what produces the sound, the quieter it is.	Children to understand how the formation of the ear affects how we hear things.	
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BIRCHINGTON



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