



# Year 4: Electricity Knowledge Mat

Subject Specific Vocabulary		Interesting Book	Sticky Knowledge about electricity
<b>circuit</b>	An electrical circuit is a path or line through which an electrical current flows.	<p><b>CHARGING ABOUT</b> THE STORY OF ELECTRICITY</p> <p>IT'S REALLY SHOCKING!</p> <p>Jacqui Bailey Matthew Lilly</p>	<input type="checkbox"/> Electricity comes from power stations, wind, the sun, water and even animal pool!
<b>buzzers</b>	A buzzer is an automatic signalling device. They are used as alarms and door bells.		<input type="checkbox"/> Electricity is a type of energy that can build up in one place to flow to another.
<b>conductor</b>	A conductor is an object or type of material that allows the flow of an electrical current in one or more directions		<input type="checkbox"/> A power station is a place where electricity is created and sent to our homes.
<b>battery</b>	A battery is a device that stores chemical energy and makes it available in an electrical form.		<input type="checkbox"/> Electricity travels at the speed of light, which is more than 186,000 miles per hour.
<b>cells</b>	An electrical cell is a device that is used to generate electricity		<input type="checkbox"/> One flash of lightening could power 1000 houses for a whole year.
<b>switch</b>	A switch is an electrical component that can "make" or "break" an electrical circuit.		<input type="checkbox"/> 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.
<b>socket</b>	Sockets allow electric equipment to be connected to the alternating current (AC) power supply in buildings and at other sites.		<input type="checkbox"/> The first power plant opened in 1882 and was opened by a famous person called Thomas Edison.
<b>appliance</b>	An electrical appliance is a device that uses electricity to perform a function		<input type="checkbox"/> Thomas Edison was a very famous inventor who helped us make the most of electricity from bulbs to fuses.
<b>appliance series circuit</b>	Components connected in series are connected along a single path, so the same current flows through all of the components.		
<b>insulator</b>	An insulator is a material whose internal electric charges do not flow freely.		
		<b>Important facts to know by the end of the electricity topic in Year 4</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Know about common appliances that run on electricity</li> <li><input type="checkbox"/> Know how to construct a simple series electrical circuit</li> <li><input type="checkbox"/> Identify and name the basic parts of the circuit, including cells, wires, bulbs, switches and buzzers</li> <li><input type="checkbox"/> Know that a switch opens and closes a circuit</li> <li><input type="checkbox"/> Know about some common conductors and insulators</li> <li><input type="checkbox"/> Know that metals are good conductors</li> </ul>	