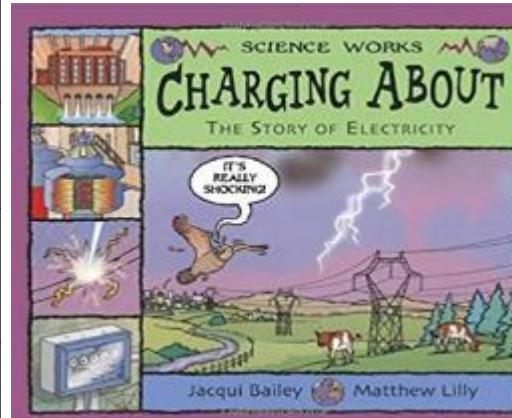


Year 4: Electricity Knowledge Mat

Subject Specific Vocabulary		Interesting Book	Sticky Knowledge about electricity	
circuit	An electrical circuit is a path or line through which an electrical current flows.		<input type="checkbox"/> Electricity comes from power stations, wind, the sun, water and even animal poo!	
buzzers	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.	
conductor	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.	
battery	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.	
cells	An electrical cell is a device that is used to generate electricity		<input type="checkbox"/> One flash of lightning could power 1000 houses for a whole year.	
switch	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.	
socket	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.	
appliance	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.	
appliance series circuit	Components connected in series are connected along a single path, so the same current flows through all of the components.		<input type="checkbox"/> Know about common appliances that run on electricity	
insulator	An insulator is a material whose internal electric charges do not flow freely.		<input type="checkbox"/> Know how to construct a simple series electrical circuit	
			<input type="checkbox"/> Identify and name the basic parts of the circuit, including cells, wires, bulbs, switches and buzzers	
			<input type="checkbox"/> Know that a switch opens and closes a circuit	
			<input type="checkbox"/> Know about some common conductors and insulators	
			<input type="checkbox"/> Know that metals are good conductors	

Important facts to know by the end of the electricity topic in Year 4

- ❑ Know about common appliances that run on electricity
- ❑ Know how to construct a simple series electrical circuit
- ❑ Identify and name the basic parts of the circuit, including cells, wires, bulbs, switches and buzzers
- ❑ Know that a switch opens and closes a circuit
- ❑ Know about some common conductors and insulators
- ❑ Know that metals are good conductors