




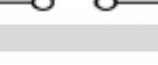


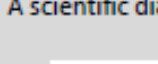
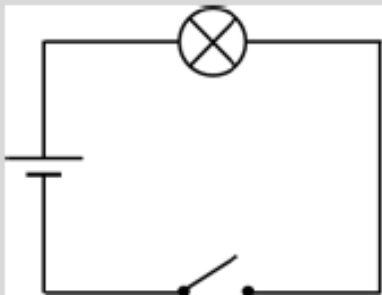



Electricity- Knowledge Organiser

Common electrical hazards	Electrical circuit symbols		Vocabulary Dozen		
1. Overloading a plug extension socket.		lamp (indicator)	circuit	A complete route which an electric current can flow around.	
2. Exposed wires.		lamp (lighting)	current	A flow of electricity through a wire.	
3. Damaged wall sockets.		wire	physics	The study of forces including electricity and the way it affects objects.	
4. Wires left along the carpet for people to trip over.		motor	battery	A small device that provides power for electrical items.	
5. Placing metal into electrical appliances or open sockets.		buzzer	cell	A device used to generate electricity. A battery is an example of a cell.	
6. Electrical appliances and wires near water.		open switch	conductor	Any material that electricity can pass through or along.	
NOTE: WATER IS AN EXCELLENT ELECTRICAL CONDUCTOR SO IT CAN BE VERY DANGEROUS TO HAVE ELECTRICAL DEVICES NEAR WATER		closed switch	insulator	Any material that electricity cannot pass through or along.	
		cell	buzzer	An electrical device that makes a buzzing sound.	
		battery	motor	A device that changes electrical energy into movement.	
Thomas Edison (1847 – 1931)					
Thomas Edison was born in 1847 and died in 1931. He lived in the state of New Jersey in the United States of America (USA)	<div>A scientific diagram of an open circuit:  The light bulb will not light in this circuit until the switch is closed.</div>		wire	A long thin piece of metal that carries an electrical current often covered in plastic for safety.	
He is known as one of the greatest inventors in history.			voltage	An electrical force that makes electricity move through a wire, measured in volts (V).	
 He invented the light bulb , the phonograph (which could record and play sound) and an early video camera called the Kinetograph . The films were then watched on a Kinetoscope which he also invented.			socket	A device on a wall that you can plug electrical equipment into.	
			<table><tr><th>Electrical Conductors</th><th>Electrical Insulators</th></tr><tr><td>Copper Iron Steel Silver Gold</td><td>Rubber Wood Plastic Paper</td></tr></table>		Electrical Conductors
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