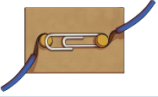







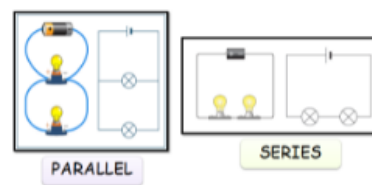
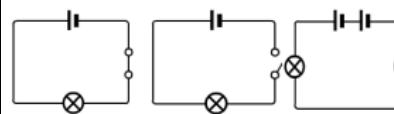
YEAR 6 - ELECTRICITY















Conductors and Insulators

Related vocabulary	Definition
electricity	a form of energy that can be carried by wires and is used for heating and lighting, and to provide power for devices.
voltage	the force of an electric current as measured in volts the force of an electric current as measured in volts
insulators	a non-conductor of electricity or heat
conductors	a substance that heat or electricity can pass through or along
electrical circuit	A complete path that an electric current can flow around. It flows from the battery, through wires and devices before returning to the battery. If the circuit is not complete the electric current cannot flow
electricity symbols	A symbol used to represent various electronic components or functions in a diagram of a circuit.
appliances	a device or machine in your home that you use to do a job such as cleaning or cooking. Appliances are often electrical.
battery	A device consisting of one or more cells
component	the parts that something is made of
current	a flow of electricity through a wire or circuit
energy	the power from sources such as electricity that makes machines work or provides heat
resistance	a force which slows down a moving object or vehicle

	Good Conductors allow energy to pass through	Insulators stop or slow down energy
Electrical	Metals e.g. copper, silver, gold, iron, steel, aluminum tap water 	rubber wood plastic glass paper cotton distilled water polystyrene fabric 
Thermal	Metals e.g. copper, silver, gold, iron, steel, aluminum 	plastic wood rubber fabric polystyrene 

Examples of circuits



	BULB (LAMP) A component which lights up when electricity passes through it in a circuit	
	MOTOR A component which moves (spins) when electricity passes through it in a circuit	
	BUZZER A component which makes a sound when electricity passes through it in a circuit	
	WIRE Plastic-coated electrical wire which conducts electricity around a circuit	
	SWITCH Part of a circuit which can easily be opened or closed to control the flow of electric current	
	CELL - 1 battery A safe power source. A store of chemical potential energy that can power a circuit	
	CELL - 2 batteries Two cells used together to make a more powerful power source	

Year – skills and Knowledge	Sticky facts

Year - working scientifically skills	Investigation