

Complete the table.

# How does electricity affect our lives?



## 1) What do we use that is powered by electricity?

#### , ...., ...,

Appliance	Battery- Powered	Battery or Mains Powered	Mains Powered	Non- electrical appliance
saucepan				<b>✓</b>
torch				
microwave				
potato peeler				
washing machine				
alarm clock				

#### 2) What are the main parts in a simple series circuit?

2. Draw three lines to match the definitions with the correct key word.

mains electricity	
appliance	
series circuit	

A piece of equipment or device designed to perform a particular job.

Where components are connected with wires in a loop and electricity flows around in a single pathway.

Electricity supplied through wires to a building.

Can you name each of the following?





#### How do switches work?

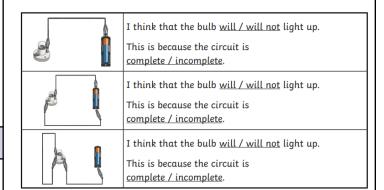
### Will the number of batteries affect the brightness of the bulb?



- a. These pictures are all of what type of component?
- b. What is the job that these electrical components do? \_\_\_\_\_

#### How do you make a circuit?

Draw a simple circuit with a bulb.



## Will tinfoil act as an electrical conductor? Why is plastic used to coat the metal wires?

Object	Is the material an insulator or conductor?	
metal coin	insulator / conductor	
plastic ruler	insulator / conductor	
piece of paper	insulator / conductor	

Books to read at home	Home Learning Ideas	
<ul><li>Shocking! Where Does Electricity Come From?</li><li>The Shocking Story of Electricity</li></ul>	<ul><li>Create a poster about saving energy.</li><li>Research how electricity was invented.</li></ul>	

Key Vocabulary					
Battery	A group of cells joined together	Insulator	A material or object that stops the flow of electricity		
Cell	A device containing electrodes that is used for generating current	Motor	A machine powered by electricity that supplies motive power for a vehicle or other moveable device		
Circuit	A complete and closed path around which a circulating electric current can flow	Physics	The science that deals with things like matter, forces and energy		
Conductor	A material or device which allows heat or electricity to carry through	Series	electrical components. are connected one after another in a single loop.		
Current	A flow of electricity which results from the ordered directional movement of electrically charged particles	Socket	A place to insert a plug and connect an appliance to a power supply		
Component	An item that is part of a circuit such as a cell, wire, switch or motor.	Switch	A device for making and breaking the connection in an electric circuit		
Electrons	A very small particle in an atom that has a negative electrical charge.	Wire	A conductor in a circuit		
Estimate	A type of guess that you make about something like its size, quantity or speed for example. It is based on information and not made up.	Sequence	the following of one thing after another;		
Potential	a chance or possibility that something will happen or exist in the future	Vary	To be slightly different from another thing.		

<sup>\*</sup> Words in grey are Tier 2 (non-topic specific) vocabulary