

Match the following statements:



Click mouse to reveal answer

A battery stores...

Chemical energy.

A battery has both a...

Electrons in a conducting wire.

A battery gives a 'push' or voltage to the...

Cost of using a portable device.

Most batteries contain toxic metals including...

Voltage.

Using rechargeable batteries can reduce waste and the...

Negative and a positive terminal.

Batteries can be connected in series to increase the...

Lithium, Nickel, Cadmium & Lead.

Answer:

A battery stores...

Chemical energy.

A battery has both a...

Negative and a positive terminal.

A battery gives a 'push' or voltage to the...

Electrons in a conducting wire.

Most batteries contain toxic metals including...

Lithium, Nickel, Cadmium & Lead.

Using rechargeable batteries can reduce waste and the...

Cost of using a portable device.

Batteries can be connected in series to increase the...

Voltage.

## plenary two

Decide whether the following statements are true or false:



Click mouse to reveal answer

<b>Statements:</b>	<b>True</b>	<b>False</b>
Michael Faraday was involved in developing batteries in the mid 1800s ?	True	False
Batteries store electrical energy for use in devices like MP3 players ?	True	False
Most mobile phones use batteries containing the toxic metal lithium ?	True	False
Using rechargeable batteries can reduce the amount of toxic metal waste in the environment ?	True	False
A potato with different metal electrodes (copper & zinc) can power a low current device ?	True	False
Batteries function less well below -30°C, because the chemical reaction becomes too slow ?	True	False
Batteries can last forever, never running low of energy ?	True	False
If you're not going to use a device for long periods, you should always leave the batteries in ?	True	False
All mobile phones uses environmentally friendly rechargeable batteries ?	True	False
A car uses a high voltage battery to turn the engine when starting ?	True	False

## plenary two

Answer:

<b>Statements:</b>	<b>True</b>	<b>False</b>
Michael Faraday was involved in developing batteries in the mid 1800s ?	True	
Batteries store electrical energy for use in devices like MP3 players ?		False
Most mobile phones use batteries containing the toxic metal lithium ?	True	
Using rechargeable batteries can reduce the amount of toxic metal waste in the environment ?	True	
A potato with different metal electrodes (copper & zinc) can power a low current device ?	True	
Batteries function less well below -30°C, because the chemical reaction becomes too slow ?	True	
Batteries can last forever, never running low of energy ?		False
If you're not going to use a device for long periods, you should always leave the batteries in ?		False
All mobile phones uses environmentally friendly rechargeable batteries ?	True	
A car uses a high voltage battery to turn the engine when starting ?	True	

# 9| Energy and electricity...Faraday and electricity

level 5  
level 6  
level 7

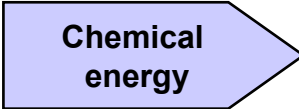

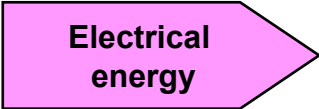

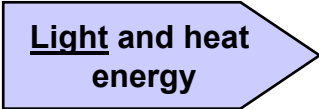
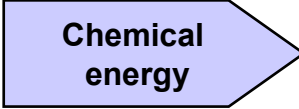

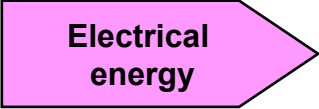

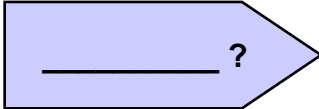
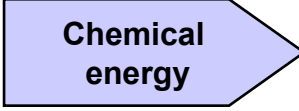

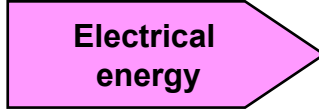

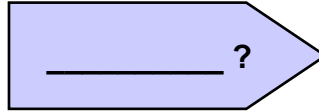
## plenary three

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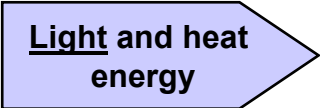



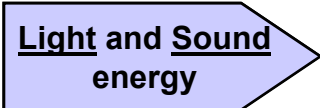



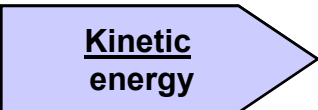
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Work out the following energy transfers for the three devices that use batteries. Use the following words; Kinetic, Sound, Light, Heat & Energy. Underline the useful energy in your answer:

 Click mouse to reveal answer

Energy stored	Energy out	Device	Energy transformation	
			<b>Torch</b> 	
			<b>MP3 Player</b> 	
			<b>Watch</b> 	

Answer:

Energy stored	Energy out	Device	Energy transformation
 <p>Chemical energy</p>	 <p>Electrical energy</p>	<b>Torch</b> 	 <p><u>Light</u> and <u>heat</u> energy</p>
 <p>Chemical energy</p>	 <p>Electrical energy</p>	<b>MP3 Player</b> 	 <p><u>Light</u> and <u>Sound</u> energy</p>
 <p>Chemical energy</p>	 <p>Electrical energy</p>	<b>Watch</b> 	 <p><u>Kinetic</u> energy</p>