

# 9| Energy and electricity...Energy types and transfer

level 5  
level 6  
level 7




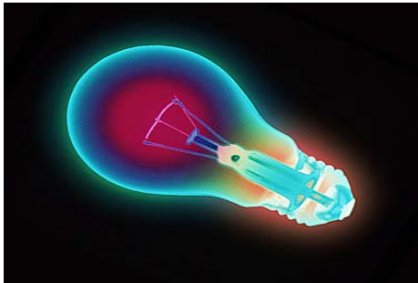




## starter one

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Look at the eight pictures below for the eight types of energy. For each picture state the type of energy it represents:

 Click mouse to reveal answer

Example	National grid	Free Falling	London eye	Light bulb
Diagram				
Type	Electrical	_____?	_____?	_____?
Type	Gas burner	Speaker	Fossils fuels	Bow and arrow
Diagram				
Examples	_____?	_____?	_____?	_____?

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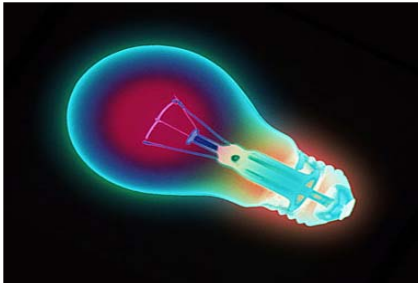




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## starter one

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Answer:

Example	National grid	Free Falling	London eye	Light bulb
Diagram				
Type	Electrical	Gravitational	Kinetic	Light
Type	Gas burner	Speaker	Fossils fuels	Bow and arrow
Diagram				
Examples	Heat	Sound	Chemical	Elastic

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starter two

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Look at the four pictures below. Decide what type of energy is produced by each device. What is the type of energy that all the devices pictured below use:



Click mouse to reveal answer

	Light house	Hair dryer	Television	Cooker
Diagram				
	<i>Sound energy</i>	<i>Sound energy</i>	<i>Sound energy</i>	<i>Sound energy</i>
	<i>Light energy</i>	<i>Light energy</i>	<i>Light energy</i>	<i>Light energy</i>
	<i>Kinetic energy</i>	<i>Kinetic energy</i>	<i>Kinetic energy</i>	<i>Kinetic energy</i>
	<i>Heat energy</i>	<i>Heat energy</i>	<i>Heat energy</i>	<i>Heat energy</i>

## starter two

Answer:

	Light house	Hair dryer	Television	Cooker
Diagram				
		<i>Sound energy</i>	<i>Sound energy</i>	
	<i>Light energy</i>		<i>Light energy</i>	
	<i>Kinetic energy</i>	<i>Kinetic energy</i>	<i>Kinetic energy</i>	
	<i>Heat energy</i>	<i>Heat energy</i>	<i>Heat energy</i>	<i>Heat energy</i>

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## starter three

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Look at the two devices below. Determine the amount of useful energy in kilojoules that is transformed from electrical energy by the device:

 Click mouse to reveal answer

Diagram

150 joules of electrical energy



30 joules of l\_\_\_ energy

\_\_\_ joules of heat energy

Notes

1000 joules of electrical energy



\_\_\_ joules of k\_\_\_ energy

650 joules of heat energy.

100 joules of sound energy.

Notes

## starter three

Answer:

Diagram

150 joules of electrical energy



30 joules of light energy

120 joules of heat energy

Notes

*Light bulb transforms electrical energy into heat and light energy.*

1000 joules of electrical energy



250 joules of kinetic energy

650 joules of heat energy.

100 joules of sound energy.

Notes

*A hairdryer transforms electrical energy into heat, sound and kinetic energy.*