



ENERGY

Name:

Class:

1 Complete the table about energy.

Example of energy	Form	Description	Your examples
A lightbulb	light	Energy produced by the sun, which allows us to see.	torch
A geothermal spring			
A megaphone			
Electricity pylons			
Honey fungus			
A surfer			

2 Why are the following statements false?

a) It is not possible to see energy.

Because although most energy is invisible, we can see light energy.

b) We can create and destroy energy.

c) Electrical devices are not useful to transform electrical energy.

d) Batteries store electrical energy.

e) We should use more coal and oil instead of solar power and wind energy.

f) The slower particles move, the more thermal energy is produced.

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ENERGY

Name: Class:

1 Place the words in the box into one of the columns.



biomass change chemical coal electrical force heat
hydropower geothermal light kinetic natural gas
nuclear oil pollute ~~pollution~~ potential solar sound
spill thermal transform uranium waste wind

ENERGY FORMS	NON-RENEWABLE	RENEWABLE	VERBS
	pollution		

2 Fill in the missing letters to complete the words. Then, rewrite the words again.

- | | | | |
|--------------------------|-------|------------------------|-------|
| a) s _ o _ u _ n _ d | sound | b) _ _ e m i _ a l | _____ |
| c) b i _ m a _ _ | _____ | d) p o _ e n _ i a _ | _____ |
| e) p _ l _ u _ i o n | _____ | f) e _ e c _ r i _ a l | _____ |
| g) r _ n e _ a b _ e | _____ | h) h _ d _ o p o _ e r | _____ |
| i) r _ d _ o a c t i _ e | _____ | j) _ o _ l | _____ |

3 Create an icon for each vocabulary word in the boxes below. Then, cover the words and icons with your hand and practise drawing and writing the word and icon again.

- | | |
|--|---|
| a)  radioactive |  radioactive |
| b) <u>heat energy</u> | _____ |
| c) <u>sound energy</u> | _____ |
| d) <u>transformation</u> | _____ |
| e) <u>mechanical</u> | _____ |
| f) <u>uranium</u> | _____ |
| g) <u>chemical energy</u> | _____ |

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ANSWERS

1 Model answers:

Example of energy	Form	Description	Your examples
A lightbulb	light	Energy produced by the sun, which allows us to see.	torch
A geothermal spring	thermal	Energy produced by the movement of tiny particles within an object.	steam, fire, heating devices, cooking devices
A megaphone	sound	Energy produced by vibrations that create sound waves.	voice, instruments, music
Electricity pylons	electrical	Energy used to power machines that can be transformed into many different forms.	electrical devices, power stations
Honey fungus	chemical	Stored energy that is released when a chemical reaction takes place.	food, plant matter, batteries
A surfer	kinetic	Energy produced by movement.	any movement, wind turbine

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- b) Because energy cannot be created or destroyed.
 - c) Because we use electrical devices every day to transform electrical energy into heat, sound or light energy.
 - d) Because batteries contain chemical energy that is transformed into electrical energy.
 - e) Because coal and oil are non-renewable energy sources, which we may run out of in the future. So, we should limit their use and use more renewable energy sources, like solar power and wind energy.
 - f) Because more thermal energy is produced when particles move quicker.

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ANSWERS

- 1** **Energy forms:** chemical, electrical, force, heat, light, kinetic, potential, sound, thermal
Non-renewable energy: coal, natural gas, nuclear, oil, uranium, waste
Renewable energy: biomass, hydropower, geothermal, solar, wind
Verbs: change, pollute, spill, transform
- 2**
- a) *sound*
 - b) chemical
 - c) biomass
 - d) potential
 - e) pollution
 - f) electrical
 - g) renewable
 - h) hydropower
 - i) radioactive
 - j) coal
- 3** Students' own answers.