ENERGY PAIRS

Worksheet **Adrian Tennant**



Exercise 1

Vocabulary and Materials

Match the start of the sentences in column A to the end of the sentence in column B to make statements about energy.

ımn A	Column B		
Energy can be	a)	most of the energy on our planet.	
Energy is used by	b)	good conductors of thermal energy.	
Fossil fuels are	c)	such as kinetic, chemical and thermal energy.	
The sun is the source of	d)	stored or transferred.	
Renewable energy resources	e)	we use energy.	
The energy stored in fossil fuels	f)	will not run out.	
There are different types of energy	g)	non-renewable stores of energy.	
When we heat water	h)	chemical energy.	
A battery is a store of	i)	originally came from sunlight.	
Metals are	j)	plants and animals to grow.	
	Energy can be Energy is used by Fossil fuels are The sun is the source of Renewable energy resources The energy stored in fossil fuels There are different types of energy When we heat water A battery is a store of	Energy can be a) Energy is used by b) Fossil fuels are c) The sun is the source of d) Renewable energy resources e) The energy stored in fossil f) fuels There are different types g) of energy When we heat water h) A battery is a store of i)	

Exercise 2

Reading and Writing

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Read the text about energy and complete it using the words in the box.

use	convert	cook	energy	light	move	
non-re	newable	power	renewable	sources	warm	
(0) =		l		the transfer and	Para NATA	
. , _	•		use it for many	_		
energy to	(1) o	ur cities, to	(2) ou	r cars, to (3) $_$	our	
houses, to (4) our food, to make our TV and computer work. When						
we (5) we are using energy. When we eat, our bodies (6)						
the food into energy. When we run or walk or play games we (7)						
energy in our bodies. Energy is so important to us, without it we would not						
be alive. There are many different (8) of energy. Some, like wind or						
sunlight,	are (9)	_, but other	rs, such as coal	or oil, are (10)	
(or at least it takes millions of years for them to be replenished). We need to						
be careful how we use our energy and think of ways of saving it.						





Work in groups and choose one of the two activities below.

Either design an energy survey to ask your classmates i.e. How is your house heated?

Do you switch the lights off when you leave a room? etc

Or, design an energy project.

i.e. a poster showing renewable and non-renewable energy sources. a project looking at solar power.

Use the internet to help you.



TEACHER'S NOTES

Energy Pairs Adrian Tennant



Learning Objectives

Pupils revise and learn about concepts connected to energy.

Content summary

First of all pupils try to complete sentences that contain information about various aspects connected to energy. They then complete a short text before either designing and conducting a survey or carrying out a project.

Skills

Reading, speaking, writing

Grammar

Sentence syntax

Vocabulary

fossil fuels, (non-) renewable, store, conductors, transfer, kinetic, thermal, convert, sunlight, replenish, sources.

Time needed

45-120 minutes

Age group

9-14

Materials needed

Optional - strips of paper, pens and scissors





Practicalities

For the survey or project work access to the internet would be useful.

Procedure

- 1. On the board write up the word *Energy*.
- 2. Brainstorm ideas and write these up on the board this can either be done as a whole class or in small groups.
- 3. Explain that you are going to give the pupils a set of half sentences. They need to match the start of each sentence to the correct ending.
- 4. Either hand out the worksheet and have students do exercise 1 or cut up the sentences on the worksheet and follow the procedure on the Science Museum handout.
- 5. Whichever approach you use, monitor and help where necessary.
- 6. Next, get pupils to do exercise 2. Encourage them to work in pairs.
- 7. Monitor before checking the answers as a class.
- 8. Put pupils into small groups and have them decide whether to design and carry out a survey or to do a project.

Links to everyday life

Both the survey and project options give pupils a chance to link the concepts of energy to things around them either in their home or at school.

Extra Links

The following website has some nice material in terms of information and activities.

http://www.eia.doe.gov/kids/





WORKSHEET ANSWER KEY

Energy Pairs



Exercise 1

1d 2j 3g 4a 5f 6i 7c 8e 9h 10b

Exercise 2

1) light

6) convert

2) power

7) use

3) warm

8) sources

4) cook

9) renewable

5) move

10) non-renewable



