

The World of Energy—Exercises

1 ANSWER THE QUESTIONS IN YOUR OWN WORDS!

What are fossil fuels and how are they produced ? _____

What are the disadvantages of fossil fuels ? _____

What can coal mining lead to ? _____

Which countries are the biggest coal producers? _____

What can we make out of crude oil ? _____

Where is petroleum pumped out of the earth and how is it transported? _____

Why are oil companies looking for new reserves and what have they found ? _____

Name some important oil producing countries ! _____

Where is natural gas found ? _____

In which countries does water power play a major role ? _____

How can you turn water into electricity. Describe in short ! _____

When were the first nuclear power stations built and what did experts think about nuclear power at that time ? _____

How is energy produced in nuclear power plants ? _____

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2 ANSWER THE QUESTIONS IN YOUR OWN WORDS!

What happens with nuclear waste ? _____

What happened at Chernobyl and what did it show us ? _____

Name a few alternative energy sources ? _____

How and where can we get energy from the sun? _____

in which countries does geothermal energy play an important role ? Why? _____

Why have the Netherlands and Germany used windmills for many centuries ? _____

How does tidal power work ? _____

Why do scientists think that nuclear fusion can solve all our energy problems? _____

Name some important sources of biomass! _____

How does Brazil use biomass energy? _____

How much energy do developing countries use compared with their population? _____

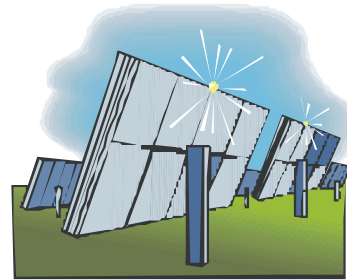
What are the advantages of recycling? _____

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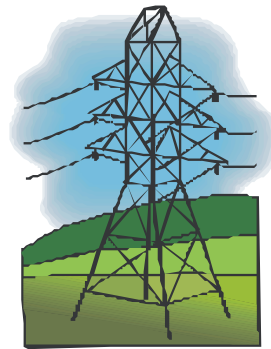
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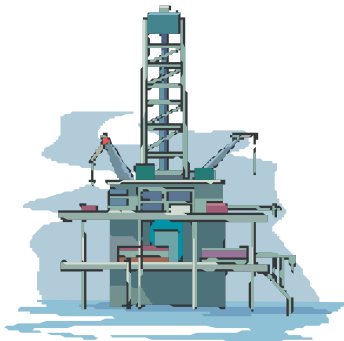


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3 FIND 10 WORDS FROM THE SYLLABLES ABOVE AND WRITE THEM DOWN!

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4 TRUE OR FALSE?

	T	F
Coal, petroleum and oil are among the most important fossil fuels.		
Most of the world' energy comes from coal.		
All factories have installed filters , so burning coal is not dangerous.		
Most petroleum lies in layers deep below the earth's surface.		
Refineries are always in places where oil is found.		
Getting oil out of oil shale is a very cheap method.		
The USA is the biggest oil producing country.		
Natural gas is cleaner than oil because it doesn't have that many pollutants.		
Alpine and Scandinavian countries produce a lot of energy through water power.		
There are over 400 nuclear power plants in the world.		
Nuclear power plants produce radioactive waste that must be stored in the ocean		
Many people still suffer from diseases they got after the accident at Chernobyl.		
The problem with solar energy is how to make big collectors.		
Geothermal energy can be produced all over the world.		
Tidal energy comes from the movement of ocean waves.		
In nuclear fusion hydrogen atoms are split to create energy.		
In Brazil, about 20 % of all cars are driven by energy that comes form sugar cane.		
Industrial countries consume 80% of the world's energy.		
The United States produces very little of the world's energy but uses up a lot,		
Recycling reduces the waste in landfills.		
We can make a lot of aluminium by recycling iron and steel.		

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5 MATCH THE WORDS WITH THE DEFINITIONS

A	decay		to use over and over again
B	mine		a plant like rice or wheat that is grown by farmers and used
C	pollute		something that is put on a field to make crops grow
D	fossil fuels		a place where raw materials are dug out of the earth
E	deposit		when you split atoms to produce a lot of energy
F	environment		everything that comes from the rising and falling of ocean
G	fertilizer		to put away for a longer time
H	smog		to make dirty
I	generator		a layer of a mineral or metal in rocks
J	nuclear fission		materials that are left over and that you don't need any
K	renewable		something that has a hole in it so that water or other things
L	store		forms of energy that have been produced by dead plants or
M	turbine		a gas that forms water when mixed with oxygen
N	high tide		heat that comes from the inside of the earth
O	geothermal		smoke and fog that mix together to produce dirty air
P	tidal		a machine that produces electricity
Q	leaky		to be slowly destroyed by nature
R	crop		the time when the sea reaches its highest point
S	waste		the air, water, land around us
T	hydrogen		a motor in which gas or water moves a wheel around

7 THE WORLD IN 2050 ! HOW WILL WE GET OUR ENERGY IN THE MIDDLE OF THE 21ST CENTURY ? WRITE AN ESSAY!

Handwriting practice lines consisting of 20 horizontal lines. A cartoon illustration of a globe with a cutaway section showing internal layers (red, orange, yellow, green) is centered on the page, overlapping the lines.

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8 FILL IN THE CORRECT WORDS FROM THE LIST BELOW !

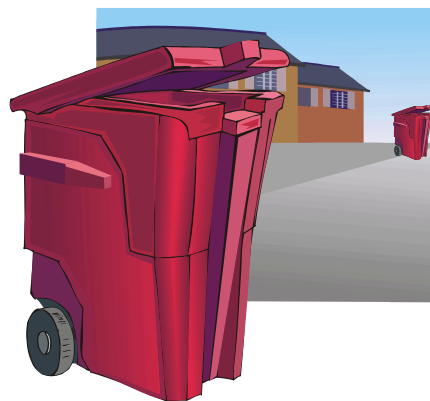
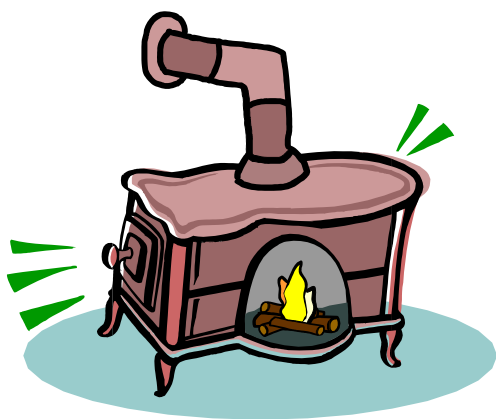
There are many ways to _____ and save energy inside the house and in your _____. Make sure that you don't _____ your house too much in the winter and cool it down too much during the summer. 21° is an ideal temperature . If you plan on building a new house think about using _____ energy forms for heating.

Turn off _____ objects if you don't need them and use _____ lamps to help you save energy. We can also save a lot of water in the household by taking a _____ instead of a bath and fixing _____ toilets.

In the kitchen we can save energy by warming up food in the _____. Dishwashers, washing machines and _____ should be full before you start them.

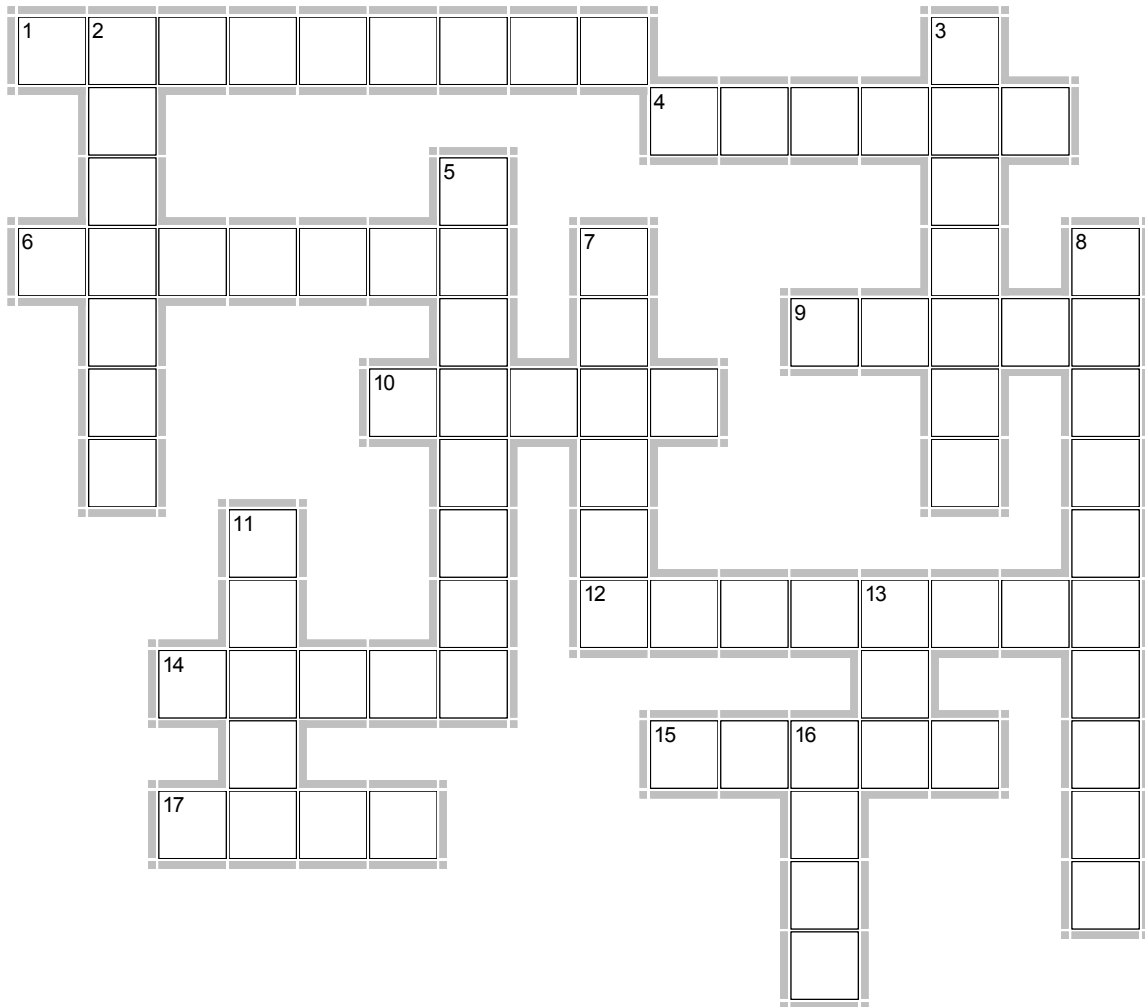
Leave your car at home if you can get to places by other means of _____. If you have to take your car see if you can organize _____ to save _____. Smaller cars need less energy than large ones.

_____ as much material as possible. Put old newspapers, _____, aluminium cans and glass in separate _____ so that waste _____ trucks can take them away.



batteries	electrical	microwave
car pools	environment	recycle
clothes dryers	fluorescent	renewable
conserve	fuel	shower
containers	heat	transportation
disposal	leaky	

9 CROSSWORD



Across

1. a machine that produces electricity
4. hot water and steam come out from a hole in the ground
6. raw material from which aluminium is made
9. materials that you don't need any more and are left over
10. everything that comes from the rising and falling of ocean waves
12. place where waste is buried under or on the ground
14. to be slowly destroyed by nature
15. biggest coal producer in the world
17. smoke and fog that mix together and produce dirty air

Down

2. alcohol that is made from plants
3. a layer of a mineral or metal in rocks
5. a factory where oil is made purer and turned into other products
7. country in which many cars are powered by fuel made from sugar cane
8. something that is put on a field to make plants grow
11. the hot gas that water produces when it gets hot
13. machine that moves air around and makes a room cooler
16. important oil producing country in the Middle East