



Name: _____ Date: _____

What uses energy?

Write down 5 items that use energy.

ITEM THAT USES ENERGY	WORK
washing machine	clean clothes.

WORD BANK	
ITEM	WORK
plant	freeze food
iron	heat homes
tumble dryer	iron clothes
oven	transport people
central heating	dry clothes
freezer	cook food
Cd player	produce oxygen
airplane	produce sound

Tell a partner 5 items that use energy.

I think a washing machine uses energy to clean clothes.



Name: _____ Date: _____



BRAINSTORMING

ENERGY

With a partner, write down 5 activities when we use energy.

We use energy when ...

• *we play football.*

•

•

•

•

•



Name: _____ Date: _____

Natural Resources

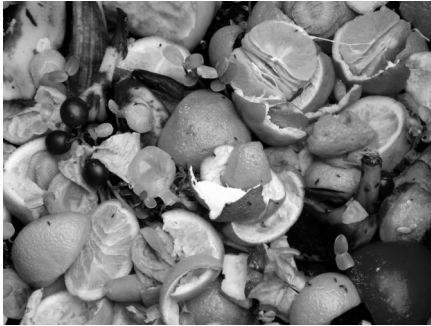
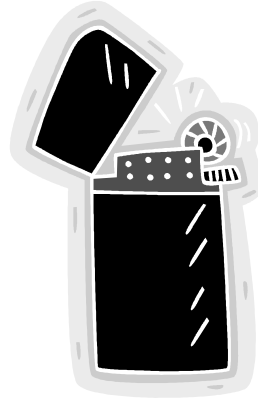
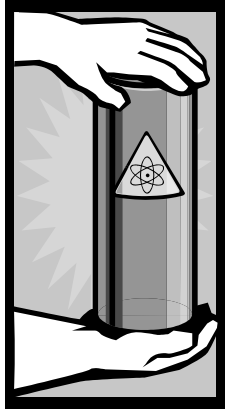
Memory game.

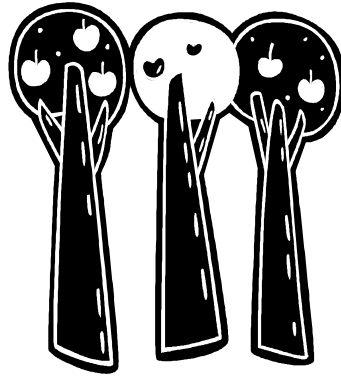
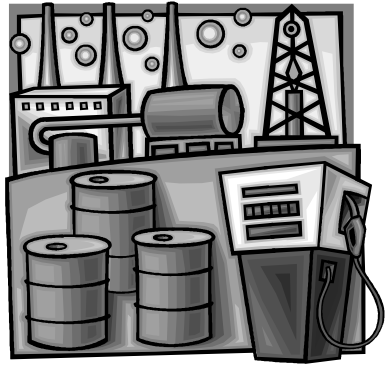
- Cut out the cards.
- Classify the natural resources into:
 1. Renewable resources.
 2. Alternative resources.
 3. Non-renewable resources.

***RENEWABLE
RESOURCES***

***NON-RENEWABLE
RESOURCES***

ALTERNATIVE RESOURCES





**FOOD
GARBAGE**

WATER

SOIL

THE SUN

WIND

WAVE

URANIUM

**NATURAL
GAS**

**OIL:
PETROLEUM & DIESEL**

COAL

WOOD

ANIMAL

W
O
R
K
S
H
E
E
T

2.3d



Name: _____ Date: _____

NATURAL RESOURCES

RENEWABLE RESOURCES	
WOOD	<i>ALTERNATIVE RESOURCES</i>
ANIMAL	THE SUN
FOOD GARBAGE	WIND
WATER	WAVE
SOIL	

NON-RENEWABLE
URANIUM
COAL
NATURAL GAS
OIL: PETROLEUM & DIESEL

Ask your partner 3 questions about renewable and non-renewable resources.

Student A: Is the Sun an alternative resource?
Student B: *That's right.* The Sun is an alternative resource.

Student A: Is food garbage a non-renewable resource?
Student B: *That's wrong.* Food garbage is a renewable resource.

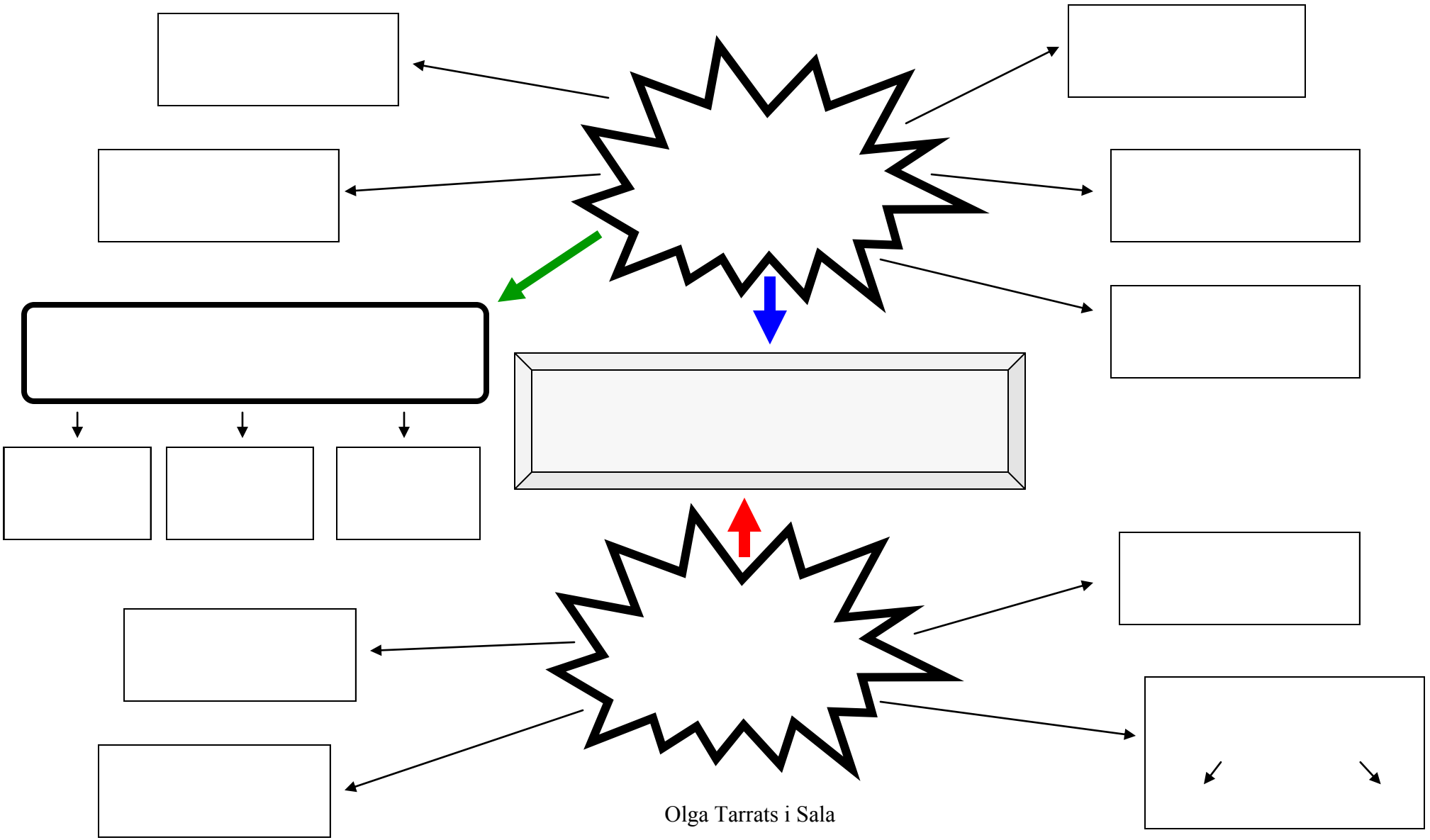


Name: _____ Date: _____

Mind map. Fill in the boxes.

Natural Resources

WORKSHEET: 2.5A



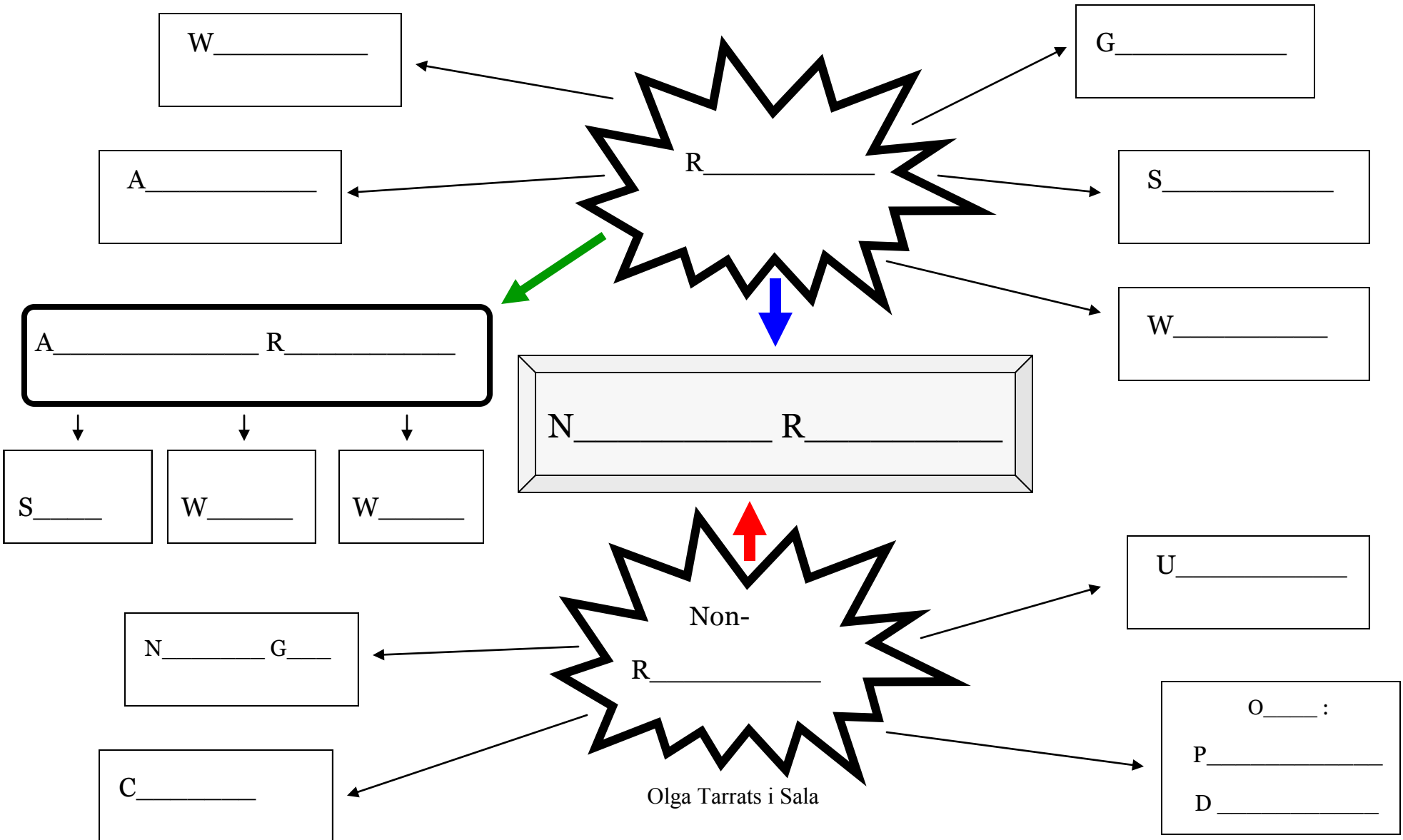


Name: _____ Date: _____

Mind map. Fill in the boxes.

Natural Resources

WORKSHEET:2.5B





*Let's investigate
Natural Resources.*

*Let's investigate
Natural Resources.*

NAME: _____

NAME: _____

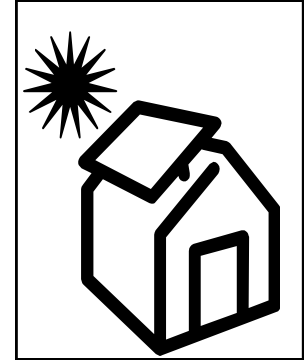
DATE: _____

DATE: _____



A1

WIND TURBINES



WIND ENERGY is a natural, renewable resource.

Wind is free and will not run out.

Wind turbines do not create greenhouse gases.

We can only use wind turbines when there is a lot of wind.

Which natural resource is it?

Is this resource renewable?

Why is this resource good?

Because _____

Why is this resource not good?

Because _____





B1

SOLAR PANELS



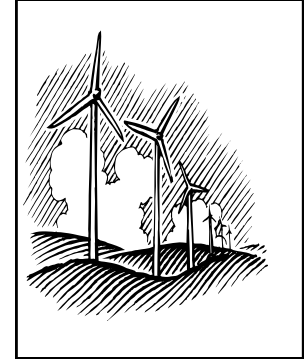
SOLAR ENERGY is a natural, renewable resource.

The Sun heats the Earth.

The energy from the Sun is free.

The Sun does not produce greenhouse gases.

When it is cloudy or at night there is not light to make electricity.



Which natural resource is it?

Is this resource renewable?

Why is this resource good?

Because _____

Why is this resource not good?

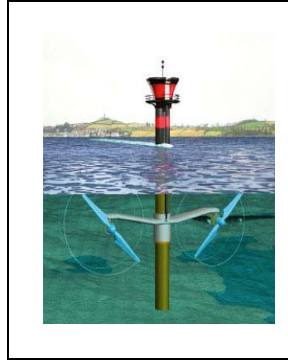
Because _____





A2

TIDAL

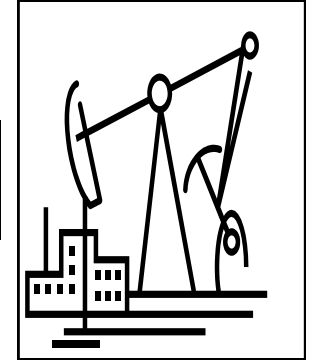


TIDE ENERGY is a natural, renewable resource.

Tidal energy comes from the movement of sea water made tides.

No greenhouse gases are produced by tidal energy.

Tidal energy machines are very big. They are not good for animals and plants.



Which natural resource is it?

Is this resource renewable?

Why is this resource good?

Because _____

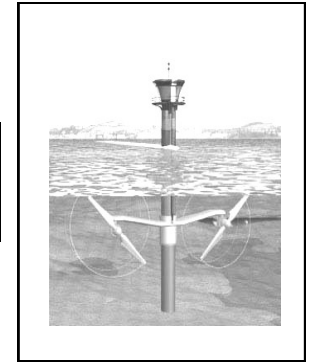
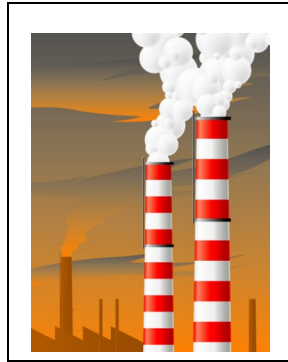
Why is this resource not good?

Because _____



B2

POWER STATION



OIL & NATURAL GAS ENERGY are natural, non-renewable resources.

Oil (*petroleum/gasoline*) and natural gas are fossil fuels.

We can find oil and natural gas in lots of places in the world.

We can transport oil and gas by using lorries or ships.

Burning these fuels produces greenhouse gases into the air.

Which natural resource is it?

Is this resource renewable?

Why is this resource good?

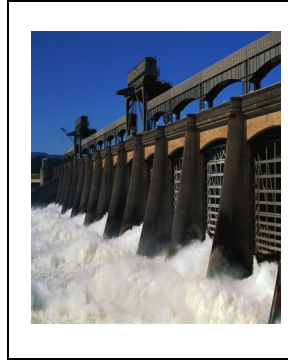
Because _____

Why is this resource not good?

Because _____

A3

HYDRO-ELECTRIC



WATER ENERGY is a natural, renewable resource.

Hydro-electricity is generated from running water. Dams are built across a lake or river to trap water.

Dams do not create greenhouse gases.

But, a dam is expensive to build.

Which natural resource is it?

Is this resource renewable?

Why is this resource good?

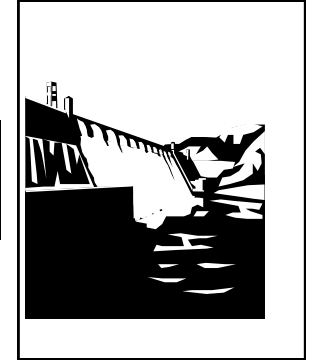
Because _____

Why is this resource not good?

Because _____

B3

NUCLEAR POWER PLANT



NUCLEAR FUEL ENERGY is a natural, non-renewable resource.

Nuclear fuel is made from radioactive Uranium.

Nuclear fuel does not make greenhouse gases.

The fuel is radioactive and it is very dangerous for our planet.

Which natural resource is it?

Is this resource renewable?

Why is this resource good?

Because _____

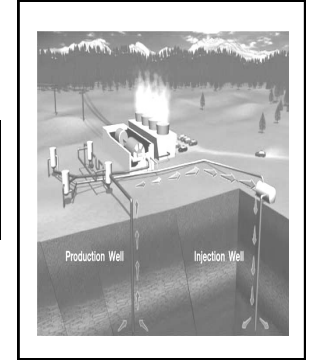
Why is this resource not good?

Because _____



A4

COAL



COAL ENERGY is a natural, non-renewable resource.

Coal is a fossil fuel which we can find in mines.

Coal is a cheap energy resource.

Burning coal produces polluting gases so it is very dangerous for our environment.

Which natural resource is it?

Is this resource renewable?

Why is this resource good?

Because _____

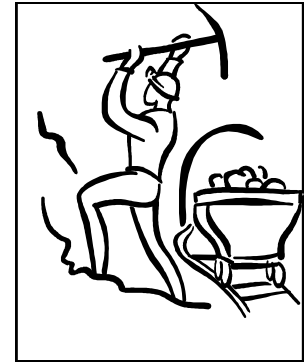
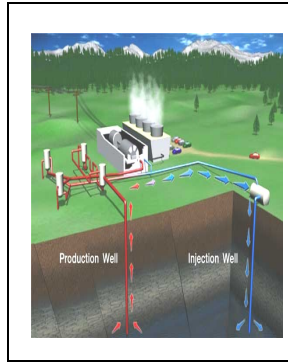
Why is this resource not good?

Because _____



B4

GEOHERMAL



GEOHERMAL ENERGY is a natural, renewable resource.

Geothermal energy uses the heat that comes from rocks deep under the Earth.

The energy resource is free and will not run out.

We can not build geothermal power stations in many places.

Which natural resource is it?

Is this resource renewable?

Why is this resource good?

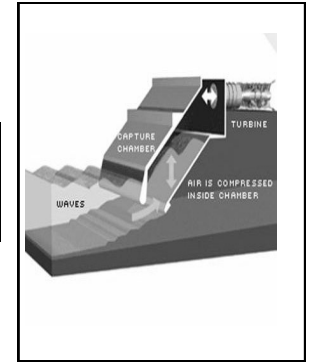
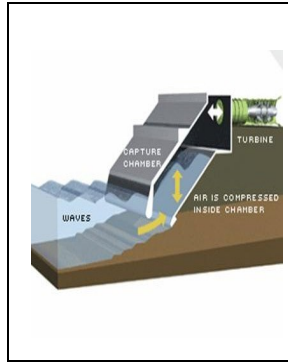
Because _____

Why is this resource not good?

Because _____

individual

WAVE POWER STATION



WAVE ENERGY is a natural, renewable resource.

Wave power uses the energy of the waves to make electricity.

Waves are free and will not run out.

The equipment is expensive.

Which natural resource is it?

Is this resource renewable?

Why is this resource good?

Because _____

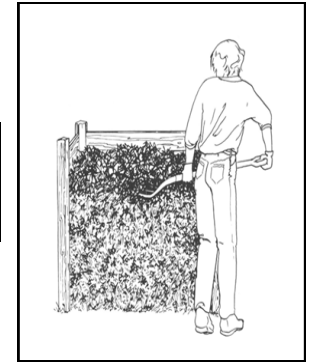
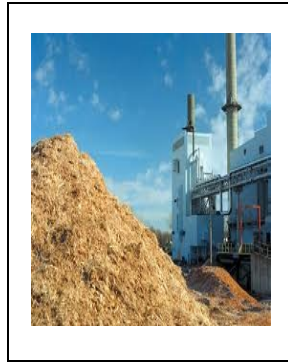
Why is this resource not good?

Because _____



Whole group

BIOMASS



COMPOST ENERGY is a natural, renewable resource.

Biomass uses the energy from waste food, animals and plants to make electricity.

The fuel is cheap because it is food garbage.

But it produces greenhouse gases when the fuel is burned.

Which natural resource is it?

Is this resource renewable?

Why is this resource good?

Because _____

Why is this resource not good?

Because _____





Name: _____ Date: _____

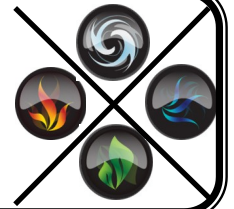
LET'S MAKE A MURAL

You need: A colourful board, scissors, glue, felt tip pens, blank papers.

STEPS:

1. *Choose a natural resource.*
2. *Glue some pictures of this resource and write about:*
 - *What is this resource ?*
 - *Where can we see / find it?*
 - *Write down 2 good things and 2 things that are not good about this resource.*
3. *Then, talk about your resource to the rest of your classmates.*

(YOU CAN FIND PICTURES ON THE INTERNET)



Name: _____ Date: _____

WORKSHEET: 2.8

LET'S MAKE A MURAL

LANGUAGE FRAME:

In this mural you can see ...

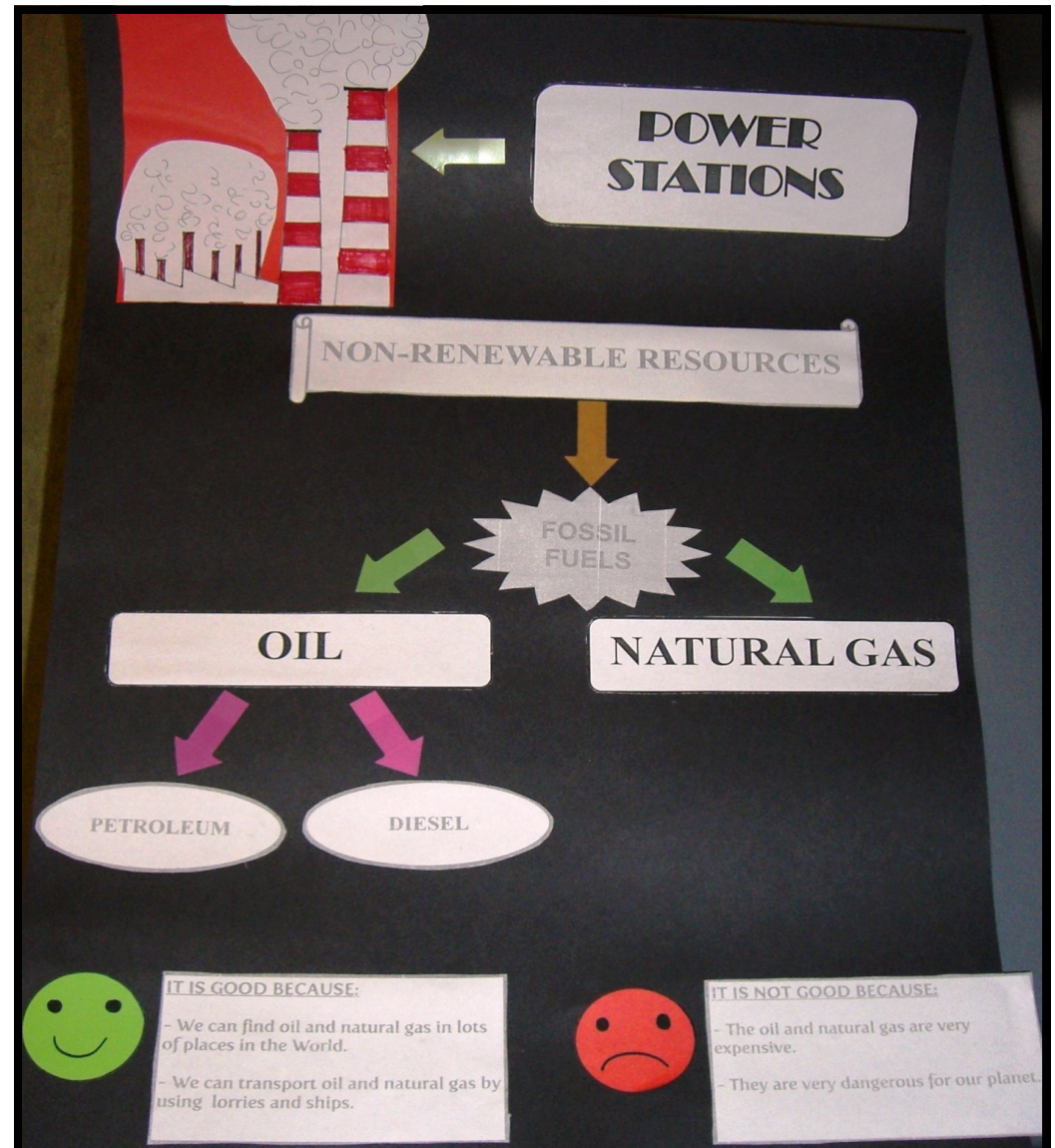
Natural Gas is a non-renewable resource.

Wind energy is a renewable resource.

You can find it in the air / underground / sea.

It is good because

It isn't good because





Name: _____ Date: _____

QUIZ

Read.

Energy is everywhere, in our homes, in our gardens, in our schools, and of course in our bodies!

Using too much energy from non-renewable resources can destroy our environment; but, with your help you can protect the world around us.

Let's see what you know about natural resources by doing this quiz.

1. Read the questions.

2. Circle the correct answer.

Name: _____ Date: _____

WORKSHEET: 2.10

- I. Where does the Earth get its heat energy from?
 - a. Coal
 - b. The Sun
 - c. Wind
2. In Spain you are almost surrounded by this energy resource.
 - a. Sea
 - b. Cake
 - c. Uranium
3. Feed your plants with this nutritious mix.
 - a. Vegetables
 - b. Compost
 - c. Natural gas
4. You find these in windy places. They produce energy.
 - a. Wind turbines
 - b. Solar Panels
 - c. Animals
5. You can see these panels in some roofs. They heat water and produce electricity.
 - a. Soil
 - b. Solar Panels
 - c. Waves
6. They love eating greenhouse gases.
 - a. Oil
 - b. Petroleum
 - c. Trees
7. Which of these energy resources is not renewable?
 - a. Geothermal
 - b. Biomass
 - c. Coal
8. Burning oil produces a dangerous gas which is toxic for our environment.
 - a. Oxygen
 - b. Carbon dioxide
 - c. Ozone
9. Which of these energy resources is an alternative resource?.
 - a. Waves
 - b. Water
 - c. Natural gas

QUIZ ANSWERS

WORKSHEET: 2.11

Name: _____ Date: _____

Key:

- | | | |
|------|------|------|
| 1. b | 4. a | 7. c |
| 2. a | 5. b | 8. b |
| 3. b | 6. c | 9. a |

How many answers did you guess? _____

Score: 7-9 points: Well done! You know a lot about natural resources.



4-6 points: Not bad! You did the quiz quite well.



1-3 points: Try it again!



QUIZ ANSWERS

Name: _____ Date: _____

WORKSHEET: 2.12

1	The Sun. Planet Earth gets energy from the Sun. Solar rays heat the Earth and help living things grow.
2	Sea. The power of the waves create electricity.
3	There is a lot of waste (garbage) in your home that you can reuse. Why not put your kitchen waste, things like vegetable peelings, into a compost bin? This will turn into compost which you can use to feed your garden plants.
4	You can use a small wind turbine to provide some of the electricity that you need in your home or school.
5	We can use Solar panels: 1. To heat water for the radiators. 2. To make electricity. Remember, once the solar panels are put onto your roof, the electricity that they make is free!!!
6	During the daylight hours trees use the energy of sunlight to remove the carbon dioxide from the air and make oxygen.
7	Coal is a fossil fuel. We can find coal under the ground. People make mines to extract the coal. Coal is very toxic because it causes pollution.
8	Carbon dioxide is the most important greenhouse gas. It is very dangerous for our planet. Trees remove the carbon dioxide.
9	Wave power make electricity. Wave power does not produce greenhouse gases.