

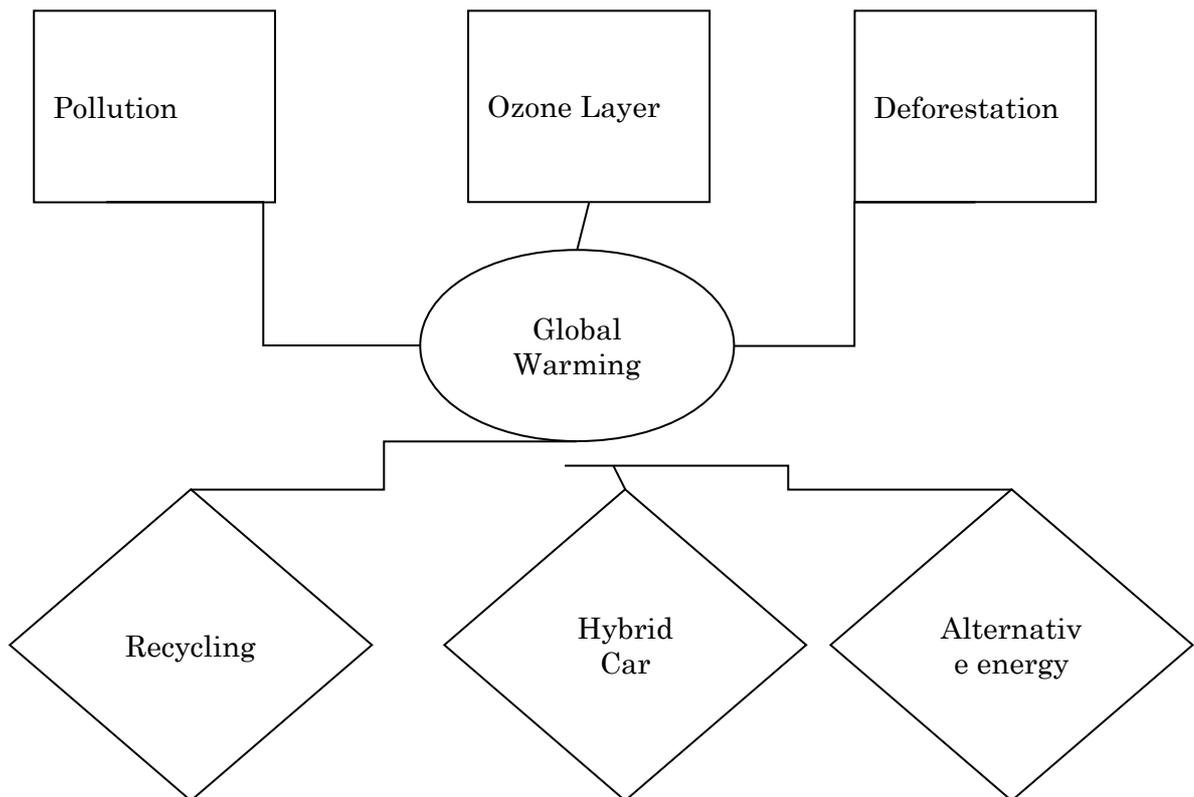
Worksheet A Environmental Problems

Vocabulary

Can you talk about Environmental issues in English?

With a partner, try to explain the terms in the diagram below.

Why are the words divided into two groups –those in squares and those in diamonds?



- **Tip** It's good to record vocabulary in groups and in meaningful ways. What other ways can you record vocabulary?

Worksheet B

Pronunciation: Word Stress

Look up the word **alternative** in your dictionary:

How does your dictionary tell you that there are 4 syllables in the word?

Is it written like this: al•'ter•na •tive

The syllable after the apostrophe is the stressed syllable. Listen to your teacher say the word.

Use your dictionary to find the stressed syllable for these words and complete the table with the stressed syllable in the dark box:

Alternative		Al	ter	na	tive
Climate			cli	mate	
Desert					
Electric					
Electricity					
Extinction					
Generation					
Global					
Polluted					
Pollution					
Radiation					
Ultraviolet					
Warming					

Worksheet C Jigsaw Reading cards

Cut up the 6 cards and give each group 2 cards

Global Warming

Scientists say the temperature of the earth could rise by 3°C over the next 50 years. This may cause drought in some parts of the world, and floods in others, as ice at the North and South poles begins to melt and sea levels rise.

Global warming is caused by the greenhouse effect. Normally, heat from the sun warms the earth and then escapes back into space. But carbon dioxide and other gases in the atmosphere trap the sun's heat, and this is slowly making the earth warmer.

The Ozone Layer

The Ozone layer is a layer of gas high above the surface of the earth that helps to protect it from the sun's ultraviolet radiation, which can damage our skins and cause cancer. Scientists have recently discovered holes in the Ozone Layer, caused by substances called CFCs (chlorofluorocarbons)

CFCs are used in refrigerators, aerosol cans and in the manufacture of some plastic products. Some companies now make aerosols that do not contain CFCs, and these are often marked "Ozone Friendly"

Deforestation

Rainforests help to control global warming because they absorb carbon dioxide. In recent years, large areas have been destroyed, as the trees are cut down for wood or burned to clear the land for farming. The burning releases large amounts of carbon dioxide into the atmosphere.

Many rainforests grow on poor soils, and when they are cut down or burned, the soil is washed away in the tropical rains, so that the area may turn to desert. Many plant and animal species that live there could become extinct.

Pollution

Factories, power stations and motor vehicles pump large quantities of carbon dioxide and other gases into the air. This is a major cause of the greenhouse effect. A lot of petrol contains lead, which is very poisonous and can cause brain damage in children. Most cars use unleaded petrol today and hybrid cars use batteries and petrol to use less petrol.

Some poisonous gases dissolve in water in the atmosphere and then fall to the earth as acid rain. Acid rain also damages trees and buildings, and can kill fish in lakes and rivers. Rivers can also be polluted by industrial waste from factories and chemical fertilizers and pesticides used by farmers.

Alternative Energy

Most of the energy we use today comes from coal, oil and gas. But these will not last for ever, and burning them is slowly harming the atmosphere. We need to look for other ways of supplying energy.

Solar Power is a way of using the sun's energy as heat or to make electricity. We can also use wind-power by building modern windmills that spin in the wind. There are several types of water-power: river water in mountainous areas can be used to generate hydroelectric power, and we can also create electricity from sea water flowing in and out with the tides.

Recycling

Recycling is the processing of used objects and materials so that they can be used again. About 60% of rubbish from homes and factories contain materials that could be recycled. Recycling saves energy and raw materials, and also reduces damage to the countryside.

Glass, paper and aluminium cans can all be recycled very easily. Many towns have special bins for bottles and cans where people can leave their empty bottles and cans for recycling. A lot of paper bags, writing paper and greeting cards are now produced on recycled paper.

Worksheet D - The Environment Quiz

How much do you know Environmental Problems that face the world today?

Look at the quiz and try to answer the questions. Leave room for the actual answers later.

1. What are CFCs and how do they affect the environment?
2. What alternative forms of energy do you know?
3. What is the Ozone Layer? What does it do? What is happening to it?
4. How are forests good for the environment? What is happening to them?
5. What is a hybrid car? How does it help the environment?
6. What is acid rain?
7. What is recycling? How does it help the environment?
8. What is the Greenhouse Effect?

Worksheet E

Expressions of certainty

A scientist used the following sentences. How sure is he about each statement?

There's no doubt at all that the earth is getting warmer.

It's fairly certain that Earth will have heated up by 4 degrees.

There will be many other effects.

The USA and Russia could suffer from drought.

Put the expressions in the correct section of the line below.

100% Sure it will
happen

50 % Sure

100 % Sure it won't
happen

Add these expressions to the line. Some have the same meaning and can be side by side.

maybe

will definitely

definitely won't

might

I'm not sure if..

probably won't

will probably

Perhaps

It's possible that..

I doubt that ...

won't

I'm certain that..

Worksheet F

Discussion

What do you think? Decide if you think the following ideas:

- a) will happen in the next 50 years?
- b) could happen?
- c) won't happen?

Mark the sentences a, b or c.

- 1) Most cars will be electric.
- 2) Nuclear Energy will end.
- 3) Alternative energy will be more important than oil.
- 4) You will recycle all your bags, cans and paper.
- 5) Almost all the rainforests will disappear.
- 6) People will continue to sunbathe.
- 7) The climate will get worse.
- 8) The next generation will care more about the environment than the present.
- 9) In elections "Green Issues" will become more important than any other.
- 10) People will destroy the earth.

Where will you place these ideas on the line of certainty?

Think about which expression of certainty you can use to express your opinion.

e.g. I'm certain that most cars will be electric.

Worksheet G

Group Work

Discuss with your group and decide where you want to put the ideas above. Write them with the new expressions.

100% Sure it will
Happen

50 % Sure

100 % Sure it won't
happen

Worksheet H

Personal Mindmap - Reflection

There's been a lot of information in this lesson. What can you remember?

Choose **one of the topics** from earlier that you are interested in, look through the different parts of the lesson and identify which vocabulary and predictions are associated to that problem.

Produce a mindmap to help you remember the important information.

Include: a title; description; predictions what'll happen in the future and recommended action.