

# UNIT 9

## POLLUTION

### Vocabulary

- Types of pollution
- Environmental effects

### Grammar and functions

- Expressing degree
- **Graphs and Figures: the language of illustrations**
- Revision of grammar structures

### ORAL PRACTICE

1. Give examples of how we pollute our air, land and water
2. How can we protect the environment?
3. Are you a green person?
4. What effects are attributed to global warming?
5. Describe the greenhouse effect. How can it be reduced?

### LISTENING1: ENVIRONMENTAL POLLUTION

- 1- What is environmental pollution? **CONTAMINATION OF THE AIR, LAND AND WATER** caused by **HUMAN PRODUCTS**.
- 2- Which are the main sources of pollution?
  - a. **CHEMICALS** released by industrial processes
  - b. **EXHAUST from gasoline-powered vehicles**
  - c. **REFUSE and GASES emitted by factories**
  - d. **Sewage and GARBAGE disposed of by cities**
  - e. **PESTICIDES** used in agriculture
- 3- Greater awareness of health and environmental hazards has created pressure for laws that control what? **THE AMOUNT OF RELEASED POLLUTANTS**
- 4- Which two actions are mentioned that can help reduce pollution?
  - a. **CONSERVATION EFFORTS** such as recycling
  - b. **NEW TECHNOLOGIES** allow industry to release fewer pollutants
- 5- Even when the long-term effects of pollution are not yet precisely known, what do scientists believe is a threat to life on the planet? **GLOBAL WARMING - the heating of the earth's atmosphere AS A RESULT OF THE GREENHOUSE EFFECT** - is a threat to most forms of life on the **PLANET**.

#### Noun

POLLUTION -

CHEMISTRY-

Technique -

Science -

#### ADJ

polluting product

chemical product

technical English

scientific work

#### NOUN

pollutant(s)

chemical(s)

technician

scientist

To release – emit – give off - emission

To dispose of (false friend) – eliminate – dump – get rid of (*usually waste*)

Global warming-acid rain-climate change

THE greenhouse effect-THE ozone layer

Threat – threaten - threatening

## TRANSLATION

Industrial and domestic pollution **HAVE INCREASED/RISEN/GROWN/GONE UP IN THE LAST 50 YEARS** (han aumentado en los últimos 50 años). Industrial air pollution includes the so-called “greenhouse gases”, **LIKE/SUCH AS CO2/CARBON DIOXIDE** (como el dióxido de carbono) and chlorofluorocarbons, which add to **the greenhouse effect**. **IN ADDITION TO/BESIDES/AS WELL AS THESE GASES** (Además de estos gases), we must not forget sulphur dioxide and nitrogen oxides, **WHICH RESULT IN/GIVE RISE TO/BRING ABOUT/LEAD TO Ø ACID RAIN** (que dan como resultado la lluvia ácida). The largest single cause of industrial air pollution is the electricity industry, **SINCE/AS/BECAUSE ALL FOSSIL FUELS PRODUCE/EMIT/GIVE OFF/RELEASE, AT LEAST, CO2** (ya que todos los combustibles fósiles producen, al menos, dióxido de carbono).

**NEW TECHNOLOGIES ARE BEING APPLIED** (Se están aplicando nuevas tecnologías) in a few places in order to minimize the effect of dangerous gas emissions, but these technologies are still very expensive and *(SI LAS APLICARAMOS)* **WOULD MAKE/(CAUSE) THE PRICE OF ELECTRICITY (TO) RISE/INCREASE** (harían que el precio de la electricidad subiera).

Water pollution is another important form of pollution. Two important causes of water pollution are **ACID RAIN AND THERMAL POLLUTION** (la lluvia ácida y la contaminación térmica). Land pollution is also an environmental **THREAT** (amenaza), especially caused by fertilizers and pesticides. **IT ALSO TAKES PLACE WHEN (THE) INDUSTRIAL WASTE**. (También tiene lugar cuando el residuo industrial) is buried or dumped, or through polluted air or water, *(TOO/AS WELL)*. Usually, when we talk of pollution, we tend to think of air pollution only, but, **AS WE HAVE SEEN** (como hemos visto), there are many other **threatening** forms of pollution, and we do not deserve to live in this beautiful planet **UNLESS WE CONTRIBUTE/HELP** (a no ser que contribuyamos) (to) reduce global pollution **AS MUCH AS WE CAN** (tanto como podamos).

/ai/ - To rise- rose – risen – (spontaneously) - increase, go up – **ONLY ACTIVE**

/ei/ -To raise- raised – (on purpose) – lift

To arise – arose – arisen –(pop, appear) - surgir

The Government **raised** tax (VAT), so prices **rose** and social problems **arose** in the community - **Value Added Tax = IVA**

To raise steam (to produce steam), your hand, weight(=lift), conclusions/topics, a child(=bring up, educate)

## VIDEO: TYPES OF POLLUTION

open in PoliformaT-Tests & Quizzes- till exam date

**ONLY EXERCISE for vocabulary - NO GRADE**

**Air pollution:** 1:45-2:15

1. *Main causes:* **{toxic}** gases and **{exhausts that are led}** into the air
2. *Produced by:* **{industries}, {volcanos}, jet planes, automobiles, forest fires, burning of garbage**
3. *Consequences:* they contain **{many harmful gases}**
  - diseases **{in human beings}**
  - **{destruction}** in vegetation
  - Damage to the structures **{on earth}**
  - also **{form acid rain}**

**Water pollution:** 2:15-2:55

- *Main causes:*
  1. effluents **{led into}** water bodies
  2. **{industries}**
  3. **{sewage}** from towns and cities
  4. **{washing}** clothes and cattle
  5. residues **{of fertilizers and pesticides}**
  6. **{oil}** spill harms marine life

**Land pollution:** 2:55-4:20

- *Main sources:* Solid **{waste}** from
  1. **{houses}**
  2. cattle sheds (animals)
  3. **{industries}**
  4. **{agricultural fields}**
- *It includes:*
  1. **{hazardous waste}**
  2. **{glass}**
  4. **{dead}** animals
  5. And others
- *Consequences:* Solid waste provides breeding ground for gems.  
 And in addition to spoiling the beauty and surroundings it **{emits smell}**
- *Solutions:*
  1. **{controlling}** land pollution
  2. **{waste disposal}** done carefully

Source: <http://www.youtube.com/watch?v=p6QLx7vEyIY>

**EXPRESSING DEGREE**

In Academic writing it is common to use EXPRESSIONS OF DEGREE

Percentage	Quantity	Frequency	Certainty	Verbs
100%	All ( <b>plural</b> )/every/each ( <b>singular</b> ) most a majority (of) many/much  some a number (of)/a series of/a set/a group several  a minority (of) a few/a little	always  Highly usual(ly) normal(ly) general(ly) as a rule on the whole  often=frequent(ly) sometimes occasional(ly)	certain(ly) definite(ly) undoubtedly absolutely clearly presumably probably/probable likely (to)  conceivably possibly/possible perhaps=maybe	will is/are must + have to +  should - ought to -  <b>can</b> <b>could</b> <b>may</b> <b>might</b> ( <i>vague language</i> )
	few/little	rare(ly)=seldom hardly (ever) scarcely (ever)	Uncertain Unlikely (to)	could not will not cannot is/are not
0%	no/none/not any	never	<b>certain(ly) not</b> <b>definite(ly) not</b>	

Source: <http://www.uefap.com/speaking/group/grpintro.htm>

**OTHER ADVERBS OF DEGREE** can be used to define the intensity or degree of an action, an adjective or another adverb. ADVERBS of degree are usually placed before the ADJECTIVE or adverb OR before the main VERB. Common ADVERBS of degree are:

**Almost=nearly, quite, just, too, enough, completely, very, significantly, dramatically, greatly, strongly, substantially**

**Very goes before an adverb or adjective** to make it stronger. Before PAST PARTICIPLE we need to use a different ADVERB

*It is very useful – more sustainable – the most economic*

*It is (very) commonly USED – more widely USED – the most frequently USED*

*Highly recommended*

Similar expressions are **extremely, especially, particularly, pretty, rather, quite, fairly, not especially, not particularly**

**NOTE: DEGREE ADVERBS are generally PLACED** before the main verb or adjective that they qualify. E.g.

AUX + [also] + VB (+VB) – He has also worked for me/He has also been working for me

TO BE + [also] He is also a good worker

[also] + VB He also works for me

*Also, he said I wasn't invited. (speaking)*

*I have never been to Iceland – Never have I been to Iceland – watch NEGATIVE PARTICLES as they produce inversion in the verb*

*Neither/Nor do I. So do I. (Me neither. Me too)*

- Optical properties **strongly** depend on the specific design details
- We **constantly** hear about the many sources of pollution, but we **hardly ever** hear about the solutions

*We hear about the many sources of pollution **constantly**, but **hardly ever** do we hear about the solutions.*

## EXERCISES

**A. Which sentence in each pair below is the correct one? (If you think both can be correct, explain the difference in meaning between them)**

a) We installed a complete new system – we changed the system completely

b) We installed a completely new system - the system installed was completely new

a) The product is full guaranteed for a year – NO (the product has full warranty)

b) The product is fully guaranteed for a year

a) It was a really enjoyable film -

b) It was a real enjoyable film - NO

a) The new car was a closely guarded secret -

b) The new car was a close ~~guarded~~ secret - NO

a) He's a highly paid executive -

b) He's a high paid executive – NO (high pay executive)

**A. Which sentence in each pair below is the correct one? (If you think both can be correct, explain the difference in meaning between them)**

- |  |  |
|--|--|
| a) We installed a complete new system<br>full new system (we changed all the system) | a) It was a really enjoyable film<br>b) It was a real enjoyable film (both real and enjoyable)   |
| b) We installed a completely new system<br>absolutely new system                     |  |
| a) The product is full guaranteed for a year<br>NO                                   | a) The new car was a closely guarded secret<br>b) The new car was a close guarded secret<br>NO   |
| b) The product is fully guaranteed for a year  |  |
| a) He's a highly paid executive<br>b) He's a high paid executive NO (high pay)       | A difference in potential must be created<br>A potential difference ( <i>possible difference</i> )<br>A difference in volume/a volume difference |

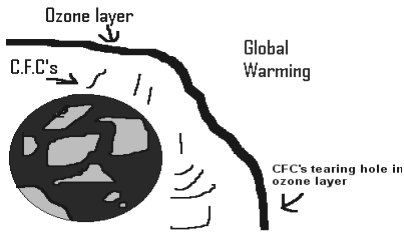
**B. Place the adverb of degree in the correct place:**

- Plant and animal life can be affected by global warming (**greatly**)
- He's a qualified engineer (**highly**)
- It was a written report and it needed a lot of corrections (**badly**)
- He presented a structured report (**well**)
- Supercharger engines achieve high performance (**extremely**)
- Lignite's energy content is low (**rather**)
- Wind power is to be the most used renewable energy source in the future (**likely/widely**)
- Stacked solar cells increase the efficiency of solar cells (**significantly**)
- With a better control of CO<sub>2</sub> emissions global warming would have increased (**never**)
- Simply throwing trash into the recycling bin does anything to reduce rubbish (**hardly**)

## READING: GLOBAL WARMING

In addition to/As well as/Besides acid rain(1), coal power plants(2) pose another problem to the environment known(3)/know-knew as the greenhouse effect. The combustion of coal produces three primary products: ash, H<sub>2</sub>O, and CO<sub>2</sub>(4). In the atmosphere these gases trap(5)/collect/capture infrared radiation from the earth which would, under normal conditions, radiate out to space. The consequence is global warming(6), which may adversely affect the earth's climate. The increasing overall temperature(7)/general-incremento de la temperatura global could possibly cause warming in the oceans or melting of polar ice caps(8). Plant and animal life could be greatly affected by these changes. Although(9)/(contrast) estimates vary significantly, experts project a possible 2°C increase in the earth's temperature by the year 2050. The question is how much and how fast the temperatures will rise(10)/rose-risen. Destruction(11)/destroy of rain forests greatly contributes to this effect because trees are an excellent utilizer of CO<sub>2</sub>, as(12)/since/because it is a requirement of photosynthesis.

As(13)/**comparison** with any fossil fuel, environmental considerations *such as*(14)/ pollution and **harmful**(15)/**noun harm** emissions **arise** with the use of *petroleum*(16)/ products. Smog is created by *hydrocarbons*(17)**hidrocarburos** along with CO(18) and other highly toxic molecules from oil processing, all of which are emitted from the *exhaust pipes*(19)/**tubos de escape** of cars.



As the problem with emissions **has dramatically increased** with the *growth*(20)**grow-grew-grown** in the *number*(21)**set/series/group** of automobiles, some measures have been taken. Auto engineers are designing cars which burn *petrol*(22) **gasoline=gas** more cleanly and efficiently and incorporate more advanced filter systems. Car manufacturers have *developed*(23) **desarrollar** automobiles which **are able to**

**dramatically reduce**/capable of **dramatically reducing** hydrocarbon emissions **by 97 to 99%**. Manufacturers are also experimenting with cleaner burning *fuels*(24) **combustibles** like methanol and natural gas. Other engineers have designed solar and electric cars. *However*(25)/ **Yet**, each fuel source presents a unique set of problems.

One

Another – singular – John and **another** student

The other – One is John and **the other** is Frank

(The) Other – John and **(the) other** students

Others – Pronoun – John and **others**

TO RISE /ai/ - ROSE – RISEN - *The sun rises, prices rise* – spontaneous – go up (no passive)

TO RAISE /ei/ – RAISED – to raise your hand, a question, a topic, conclusions, weight=lift, a child=bring up, educate – *Coal is raised to the grinder* – on purpose

TO ARISE – AROSE – ARISEN – to pop up, appear

The government **raised** tax (VAT), which made prices **rise** and some social problems **arose** in the community  
(VAT- Value Added Tax - IVA)

### Questions

- 1- In addition to acid rain : Translate into Spanish. Give a synonym for “in addition to”
- 2- Coal power plants belong to which general group of conventional power plants?
- 3- KNOWN = Give the infinitive and past tense of this verb
- 4- H<sub>2</sub>O is ..... and CO<sub>2</sub> is .....
- 5- TRAP = Translate this verb into Spanish
- 6- GLOBAL WARMING = Translate into Spanish
- 7- The increasing overall temperature = Translate into Spanish
- 8- melting of polar ice caps = Translate into Spanish
- 9- ALTHOUGH expresses cause, consequence, contrast, purpose?
- 10- RISE : Give the Past and Past Participle of this verb
- 11- DESTRUCTION is a noun from which verb?
- 12 AS expresses comparison, cause, effect, contrast, purpose
- 13 AS in this case expresses comparison, cause, effect, contrast, purpose
- 14- SUCH AS: Give a synonym in English
- 15 HARMFUL = Translate into Spanish..... It is an adjective formed from which other word class, verb or noun? .....
- 16- PETROLEUM = mention this material with a different name

17- HYDROCARBONS = Translate into Spanish

18- CO is .....

19- EXHAUST PIPES: Translate into Spanish

20- GROWTH is a noun from the verb to ..... and means in Spanish .....

21- NUMBER is used with countable or uncountable nouns? ..... And the equivalent expression for the other type of nouns?

22- PETROL means in Spanish .....

23- TO DEVELOP means in Spanish .....

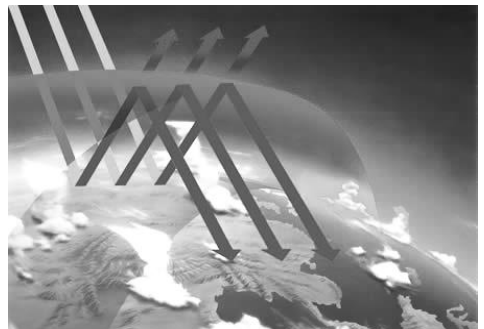
24- FUELS in Spanish is .....

25- HOWEVER is a connector that expresses contrast, cause, effect, comparison, purpose?

26- Underline DEGREE expressions in the text

## LISTENING2: THE GREENHOUSE EFFECT

- A greenhouse is a building whose sides and roof are made of glass so that the temperature inside is magnified. And it is used to grow plants that need high temperatures.**
  - These changes result from increasing the carbon dioxide levels in the atmosphere, thus raising the surface temperature of the earth. And this is known as the "Greenhouse Effect".**
  - since 1860, with a sharp increase since 1958.**
  - The main reason is the burning of fossil fuels.**
  - by about 15% -from about 290 to about 340 parts per million.**
  - about 0.032% (nought point nought three two)**
  - incoming sunlight consists of many wavelengths, including some very dangerous ones.**
  - But ozone, water vapour and CO<sub>2</sub> filter out and destroy the harmful wavelengths. So what reaches the earth is visible light. It is absorbed and reradiated into the atmosphere as longer wavelength infrared (IR) radiation, or heat, as the earth cools.**
9. What is a greenhouse?
  10. What is the greenhouse effect?
  11. When did the concentration of CO<sub>2</sub> start increasing? And a sharp increase since when?
  12. What is the main reason for this continuous increase?
  13. How much has it increased in the past 100 years?
  14. What is the average CO<sub>2</sub> content of the atmosphere?
  15. What does incoming sunlight consist of?
  16. What do ozone, water and CO<sub>2</sub> do?
  17.  
*What reaches the earth is almost visible light. It is absorbed by land, sea and cloud and is reradiated into the atmosphere as longer wavelengths infrared (IR) radiation, or heat.*
  18. What happens to much of this ir radiation?
  19. What does CO<sub>2</sub> do then?



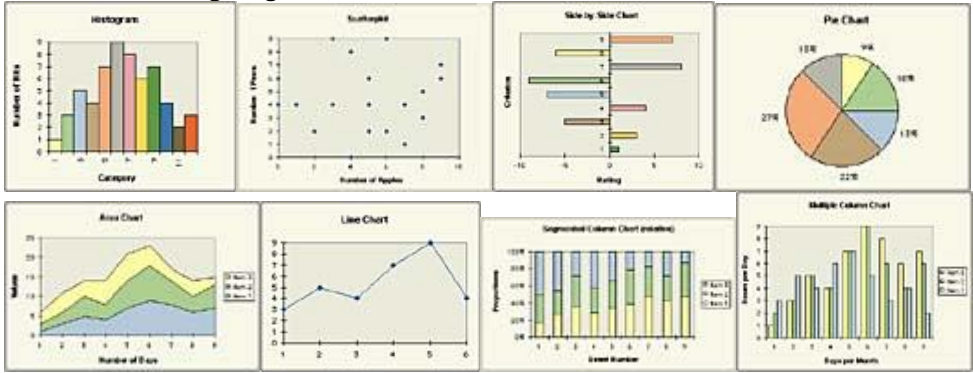
20. CO<sub>2</sub> acts as a one-way filter that \_
21. Assuming that energy is arriving from the sun at a constant rate, what happens then?
22. When was this effect first mooted? And when was it taken seriously?
23. What is the projected increase in CO<sub>2</sub> by the year 2000? And the increase in the air temperature?

## GRAPHS AND FIGURES

### Overview of Chart Types and their Uses

Chart Type	Typical Applications
<b>1. Area Percentage, Cumulative</b> <i>Cumulative</i>	Cumulated totals (numbers or percentages) over time <ul style="list-style-type: none"> <li>• How a set of data adds up to a whole (cumulated totals)</li> <li>• Which part of the whole each element represents</li> </ul>
<b>2. Column/Bar</b> <i>Vertical (columns), horizontal (bars)</i>	Observations over time or under different conditions; data sets must be small. Present few data over a nominal (e.g. countries, testing conditions, ...) or interval scale (e.g. time); useful for comparisons of data
<b>3. Segmented Column/Bar</b> <i>May be scaled to 100%</i>	Proportional relationships over time <ul style="list-style-type: none"> <li>-Present a part-whole relation over time (with accurate impression, see below)</li> <li>-Show proportional relationships over time</li> <li>-Display wholes which are levels on a nominal scale</li> </ul>
<b>4. Frequency Polygon/Histogram</b> <i>Columns/bars (no gaps)</i>	Discrete frequency distribution: Connects data points through straight lines or higher order graphs
<b>5. Line, Curve</b> <i>Data point connected by lines or higher order curves</i>	Trends, functional relations <ul style="list-style-type: none"> <li>To display long data rows</li> <li>To interpolate between data points</li> <li>To extrapolate beyond known data values (forecast)</li> <li>To compare different graphs</li> <li>To find and compare trends (changes over time)</li> <li>To recognize correlations between variables</li> </ul>
<b>6. Pie</b> ( <i>Segments may be pulled out of the pie for emphasis</i> )	Proportional relationships at a point in time approximate proportional relationships (relative amounts) at a point in time compare part of a whole at a given point in time
<b>7. Scatterplot</b>	Distribution of data points along one or two dimensions Show measurements over time (one-dimensional) Convey an overall impression of the relation between two variables (Two-dimensional scatterplot)

**Label the following diagrams**



Source: [http://www.sapdesignguild.org/resources/diagram\\_guidelines/charts\\_bk.html](http://www.sapdesignguild.org/resources/diagram_guidelines/charts_bk.html)

**Describing illustrations**

Illustrations (**graphs, tables and charts**) are used to make a point in reports **so they must be clear, simple and relevant to the objectives of the report. The commentary must be accurate and varied.**

The following sections will help you:

- to increase **vocabulary** and **syntax**
- to transfer **information** from illustration to text
- to practise language useful in **statistical writing**

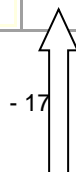
to interpret **illustrations** and use **varied vocabulary**

**Referring to a diagram, chart etc.**

as can be seen as shown			chart, diagram, table, graph, figures,	...
it can be seen we can see x can be seen x is shown	from in	the		that ...
			table 1, figure 2, graph 3	
The graph Figure 1	shows			that

**Describing change**

	+ sudden rapid	rise increase			increased shot up		
--	----------------------	------------------	--	--	----------------------	--	--



	sharp steep dramatic	upward trend			grew climbed rose	by _% up to _%	
There was a(n)	marked steady gradual slow slight -		of	X			
		decrease decline reduction fall drop downward trend			declined reduced decreased dropped fell	sharply steeply dramatically markedly steadily gradually slowly slightly	+ ↑ ↓

**Note:** It is usual in English to write, for example, "Inflation increased by 8% last year", not "Inflation was increased by 10%".

Source: <http://www.uefap.com/writing/function/chart.htm>



## VIDEO : DESCRIBING A GRAPH- HOUSING PRICES

Complete the following paragraphs as you watch the video:

### SECTION 1: = 1:50-2:3

What is ..... about in the four countries ..... is that the houses in Japan .....

This ..... with Australia. The latter did see ..... house prices ..... , but the next two years experienced ..... After ..... four years Australian house prices ..... so that ..... house prices in Australia .....

### SECTION 2: = 3:00-3:45

....., the UK saw ..... From ..... house prices ....., but after that .....



Canada also stands ..... because it is the only country where .....

### SECTION 3: = 4:20-4:50

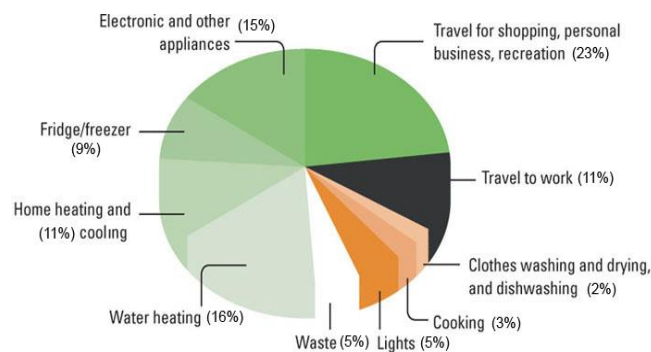
The table data shows that ..... in Australia was .....

However ..... during that period ..... The effect of this is that in 2000 ..... while ten years later .....

Source: <http://www.youtube.com/watch?v=GDLtrSOLMl0>

## WRITING

Write a paragraph of about 100 words describing the following diagram about DIRECT CAUSES OF CARBON EMISSIONS. USE THE VOCABULARY of the unit



Source: <http://www.choice.com.au/reviews-and-tests/household/energy-and-water/saving-energy/going-carbon-neutral.aspx>

## VIDEO: ACID RAIN

Watch the video and answer the following paragraphs.

### **PARAGRAPH 1**

1. Which is the common thing in some lakes of Europe?
2. What is happening to some forests in Central Europe?
3. Which percentage of forests is affected?
4. What is happening to the future of salmon and trout fishing in N & Sw?
5. How many lakes in Sweden are not capable of supporting fish?
6. Which is the cause?

### **PARAGRAPH 2**

1. Which substances contain sulphur?
2. When does this sulphur become sulphuric acid?
3. What happens to this sulphuric acid?
4. Which are the consequences of it falling locally?
5. What happens to pollution produced in Britain?

### **PARAGRAPH 3**

1. What effects does it have?
2. For example in Scandinavia the fish were disappearing from the lakes why?.
3. That is, what?
1. Apart from the fish, what other things does it affect?
2. In Czechoslovakia what happened in the 60's ?
3. When was the phenomenon noticed in Germany?
4. What is the situation now?
5. Which is the main source of acid rain?
6. What is required in Japan and W Germany?
7. What do these mechanisms do?
8. What is the solution in Britain?
9. Is that any real use?

### **PARAGRAPH 5**

1. Which fuel could make some difference?
2. What is another major source of acid rain?
3. What is possible with this type of fuel?
4. What do these mechanisms do?
5. When is this solution not possible?
6. Why?

### **PARAGRAPH 6**

1. Summarize this paragraph

## **READING: GLOBAL ENERGY FACTS AND FIGURES**

### Some interesting facts and figures about the global energy situation:

- 1- World commercial energy demand, overall, is well over 90% based on non-renewable and environmentally damaging fossil fuels (only 8% is hydropower based, while nuclear power depends entirely on non-renewable uranium, thorium and other minerals).
- 2- The current 'oil price crisis' in reality reflects an emerging and permanent supply crisis for oil and gas (which currently provide about 65% of world commercial energy)
- 3- Soon after the present and short-term 'price crisis' and within at most 10 years, both oil supply and natural gas supply will enter into constant and terminal decline, due to physical depletion.
- 4- Worldwide oil depletion is now running at about 1.25-1.5 million barrels/day (Mbd) of capacity lost each year, and net additions to world oil production capacity are small, slow, high cost, and irregular.
- 5- In many non-OECD countries experiencing fast industrial and economic growth, typical annual growth rates of demand are 5%-9% for oil, and 8%-12% for gas.
- 6- World demand growth is admitted by the IEA to be running at 3%/year or more...
- 7- Overall and in fact, Kyoto Treaty implementation will result in only marginal, or no total and overall reduction of world fossil energy consumption by 2020-2030.
- 8- In the near-term, certainly to 2020-2025, world total fossil energy demand will likely increase even faster than today, because of accelerated 'conventional' economic development by the newly emerging industrial superpowers, China and India, and several other large population, fast growing economies such as Brazil, Pakistan and Turkey.
- 9- Current and conventional urban-industrial economic infrastructures are close to 100% dependent on oil and gas energy, thermal electricity, and hydrocarbon based raw materials, as well as derived products (for example gas and oil-based fertilizers and insecticides for food production, materials utilized for building, and energy needs of operating 'conventional' habitat and transport systems.

Source: [http://curtrosengren.typepad.com/alternative\\_energy/2004/10/global\\_energy\\_f.html](http://curtrosengren.typepad.com/alternative_energy/2004/10/global_energy_f.html)

### Say whether these statements are TRUE or FALSE and support your answer

- a- Most energy is currently based on non-renewable sources **T**
- b- Current oil price crisis is the consequence of the increasing use of alternative sources **F**
- c- More than two thirds of the energy comes from fossil fuels **T**
- d- The effects of conventional energy shortage will be noticed in a few years **T**
- e- The word "depletion" means "rate of extraction" **F**
- f- Oil is being extracted at a rate of 1.25-1.5 Mbd **T**
- g- Developing countries are increasing their demand for fossil fuels **T**
- h- Energy demand is about three times higher in non-OECD countries than in OECD countries **F**
- i- Kyoto protocol contributes very little to the current supply crisis for fossil fuels **T**
- j- Rates of energy demand will grow in the long run **T**
- k- Emerging countries need more energy **T**
- l- Fossil fuels are mostly used to provide energy and electricity **F**