

Adeyfield School: Foundation Subjects

Year 9 Geography: Key Stage 3

HIGHER LEVEL: Levels 6 - 8

Week commencing: 23rd January, 2012

Due in: w/c 6th February, 2012

Extended Learning Project:

WORLD ISSUES: POLLUTION



Name: _____

Form: _____

You should keep this booklet safe in your homework project folder.

You should attempt all the tasks. This work represents about 10 to 15 hours of study over a period of three weeks.

The work can be word processed or hand written. You can cut out some of the tasks, such as diagrams and charts, in order to include them in your project work. Remember to ask your Geography teacher if there is anything that you don't understand.

Your work should be handed to your GEOGRAPHY teacher after 3 weeks

WORLD ISSUES

Section 1

What are world issues?

World issues affect the lives of people across the world and may only be solved by international cooperation.

Thinning of the ozone layer.	Rainforest destruction.	Global warming.	Malnutrition.
Water supply.	Crop failure and famine.	Loss of habitats.	Soil erosion.
Waste management.	Energy for the future.	Loss of endangered species.	Disease.
Inner-city decay.	Pollution.	Rapid population growth.	Third World debt.

Tasks:

- 1) Read and cut out the statements above. Sort the cards into an order of importance using the diamond arrangement opposite
- 2) Explain your choices for the **most** important and the **least** important issue
- 3) Design a poster about the issue that you think is the most important

Most important

1

2

2

3

3

3

4

4

4

4

3

3

3

2

2

1

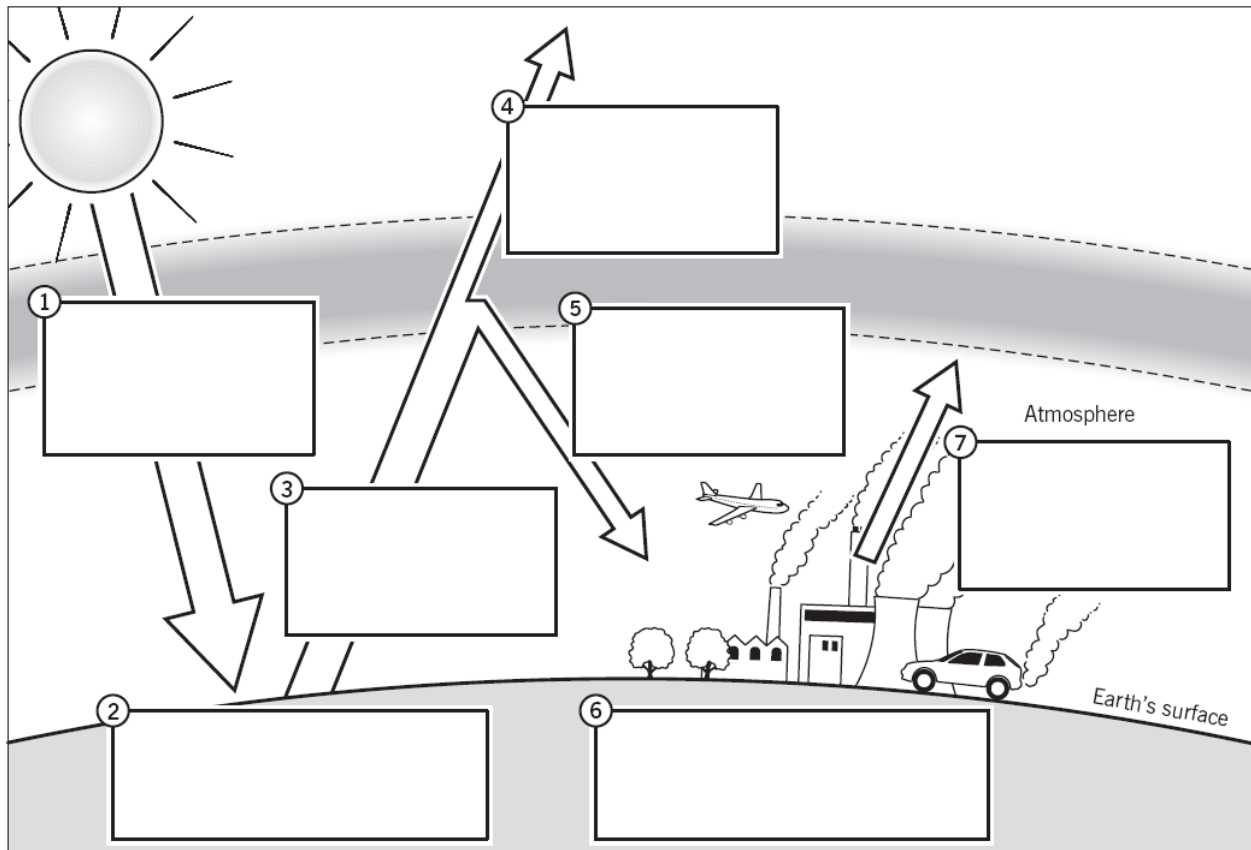
Least important

Section 2

What is Global Warming?

Most scientists believe that the burning of fossil fuels has caused an increase in the world's average temperature. This is called **Global Warming**.

Task 4: Complete the boxes on the diagram using the 7 labels below



Some heat escapes into space.

Heat is reflected from the earth back into the atmosphere.

The sun warms the earth's surface during the day.

The sun's rays pass through the atmosphere to the earth's surface.

So the atmosphere gets warmed up.

Thermal power stations burn fossil fuels and removing forests increases the level of carbon dioxide.

The earth loses heat at night. Carbon dioxide and other gases in the atmosphere trap some heat.

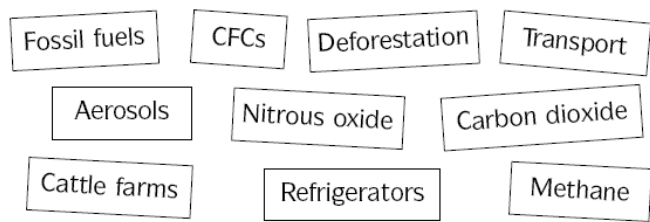
The diagram above shows how many scientists believe that global warming is caused.

What other causes can you find?

Section 3

Are you to blame?

Use the storyboard below to produce a cartoon strip highlighting how the general public are contributing to global warming. Each cartoon needs to be accompanied by a written explanation of how each action is increasing global warming.



Text

Cartoon

Choose 3 of the items from the cartoon strip above.

EITHER:

WRITE a poem about the damage that these actions are doing to our planet and how we can stop it.

OR Explain what can be done to stop the damage


Section 4

The effects of global warming

Effects of global warming

Global warming will cause serious problems throughout the world due mainly to rising sea levels and climate change.

GET AWAY!
TRAVEL AGENTS
'Your passport to the world'
SKIING IS BELIEVING!
An urgent message to all our customers



GET AWAY!
regrets to announce that due to extreme circumstances beyond our control* all our winter sports holidays have been cancelled. Europe has had very little snow this year. This may be a result of global warming.

GET AWAY!
apologises for any inconvenience caused to its customers.
For an immediate refund, ring our Free Emergency 24-hour automated helpline on **0800 1234567** where you will be put on hold for the foreseeable future.

* We take no responsibility for global warming and climate chaos despite the fact that we encourage people to fly around the world in aeroplanes – the fastest growing contributors to greenhouse gases.

❖ **1** Going on holiday really can 'Cost the earth!' What do you understand by this statement?

❖ **2** Carefully read the small print at the bottom of the poster. Can we really blame travel agents for the increased levels of greenhouse gases, or should we blame tourists? Who else do you think is to blame?

❖ **3** A 'greenhouse gas tax' is one way of making airline companies pay for global warming. Do you think that this is a good idea? Explain your answer.

Section 5

Getting the message across

Imagine that you went to an international conference on global warming/climate change. You have been asked to present the information below in an interesting way to the delegates. You will need to develop a slide show, using photographs, graphs, charts, and even cartoons etc.

You need to include between 4 to 6 slides: (Either draw them or produce a power-point handout sheet)



'The earth's atmosphere is being changed at an unprecedented rate by pollutants resulting from human activities, inefficient and wasteful fossil fuel use and the effect of rapid population growth in many regions. Global warming and sea level rise will have a far-reaching impact, which is becoming increasingly evident as a result of carbon dioxide and other greenhouse gases. Other major impacts are occurring from ozone layer depletion resulting in increased damage from ultra-violet radiation.'

Section 6

Extension work: (for students at level 5 and above)

Choose 2 of the following research topics to complete:

- A) Research and produce a report (1 to 2 pages of A4) on the work that the 'Wildlife Trust' are doing in the local area.

www.hertswildlifetrust.org.uk

- B) Research and produce a report (1 to 2 pages of A4) on the work that is being done on The Protection an Endangererd Species (i.e. choose one from elephants, tigers, pandas etc.)

www.worldwildlife.org

www.bbc.co.uk: bbc animals

www.sustlife.com

- C) Research and produce a report (1 to 2 pages of A4) on the Spread of Disease caused by Global Warming. (e.g. malaria)

www.news.bbc.co.uk

www.sustlife.com

Extended Learning Project: Assessment

Pupil Self-Assessment:

What did you enjoy the most and why? _____

What do you think you have learnt? _____

What did you find difficult and why? _____

Teacher Assessment:

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Your Target:

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