

Weeks 9-12: Energy

Week 10: Fossil Fuels and Global Warming

Objectives & Resources	Lesson Notes
<p>Lesson 3 Fossil fuels and global warming</p> <p>Objectives To learn about the link between global warming and fossil fuels</p> <p>To recognise that everyone is responsible and we all need to act before there are even more changes to the world's climate</p> <p>Key vocabulary <i>global warming, greenhouse gases, climate change</i></p> <p>Resources <i>Pages 82-83 geog.2 Y8 T2 Geog CD ROM - WWF's work on climate change</i></p> <p>Homework Resources <i>Worksheet 16 - What is Global Warming?</i></p>	<p>Starter The traditional view of Christmas was that it will be snowing in the UK and everything will be white. Why don't we have many white Christmases in the UK any longer?</p> <p>Main Lesson</p> <ul style="list-style-type: none"> • Global warming means the world is getting warmer. • This has happened before, but this time it is we humans who are responsible. Scientists are now almost unanimous in stating that human use of fossil fuels is causing global warming. • The changes to our biomes and climates are becoming clearer. • Read <i>pages 82-83 geog.2</i> and then complete 'Your Turn' on <i>page 83</i>. • You can find out more about WWF's work on climate change on the CD ROM. <p>Plenary Here are some answers to some questions. What were the questions?</p> <ol style="list-style-type: none"> a) Because the ice caps are melting b) It will die if it cannot adapt c) People in some countries may die of famine d) Move on to higher land <p>Homework Complete Worksheet 16 'What is Global Warming?' in the Appendix.</p>

How climate change will affect us

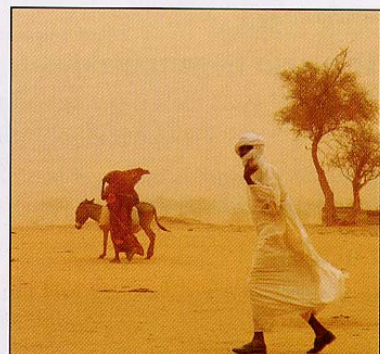
Climate change will affect all of us. These are just some of the effects:



Low-lying coasts will get flooded by rising seas, including coasts in the UK. Low-lying islands like Tuvalu in the Pacific (above) may drown.



Storms and floods will become more frequent and do more damage in many places, including in the UK. Will you be affected?



It will get too hot and dry for crops in some places. This could lead to famines, and more refugees, and even wars about water.

What can we do?

Climate change is one of the biggest problems facing the world today. It is too late to stop it – it's happening already. But we can try to slow it down, by burning less fossil fuel. The following units will look at some options.

Your turn

- Look at the two photos on page 82. What's the link between the two scenes? Explain.
- Global warming will affect people everywhere. Draw a spider map to show how.



- Some countries produce more carbon dioxide than others, because they burn more fossil fuel. The bar graph on the right shows how much some produced *per person*, in 2000. (It is the total amount they produced that year, divided by the population.)
 - Which of them produced most carbon dioxide per person in 2000? See if you can explain why.
 - Which one produced least? Think up some reasons.
 - So will the country in **b** suffer least from global warming? Explain your answer.
 - Do you think a bar chart for this year would look different from the one for 2000? Explain your answer.

- Look at the photo of Tuvalu above. Tuvalu is a group of small islands, with a population of about 11 000. The people get heat for cooking by burning coconut shells. You are the Prime Minister of Tuvalu. You are worried and angry about the effect of global warming on your country. Write to the President of America to complain, and to seek help.

