



Name: _____

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Student worksheet

5.5 Evidence supports enhanced global warming

Pages 126–129

Evidence for global warming

1 What are the main greenhouse gases?

2 How do greenhouse gases regulate the Earth's temperature?

3 Where can evidence for global warming be found?

4 What would happen to the Earth if there were no ozone layer?

5 What is the difference between the greenhouse effect and enhanced greenhouse effect?



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6 What is the difference between natural greenhouse gases and fossil fuel greenhouse gases? Which is more harmful? Explain why.

7 Using the data in student book Figure 5.20, explain why the concentration of carbon dioxide in our atmosphere is concerning.

8 Which countries are the biggest contributors to carbon dioxide emissions?

9 What is the trend in global temperatures since 1900? Explain why this has occurred.

10 What is the trend in sea levels over the past 100 years? Explain why this has occurred.



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- 11 Using student book Figure 5.22, list at least four factors that contribute to human-induced climate change.

Extend your understanding

Ice cores provide essential data, which has aided in the development of the graph in student book Figure 5.20.

- 12 Explain why ice cores are used to gather this data.

- 13 Explain what scientists look for in ice cores to collect data.
