

Science Skills Year 8 booklet: 5

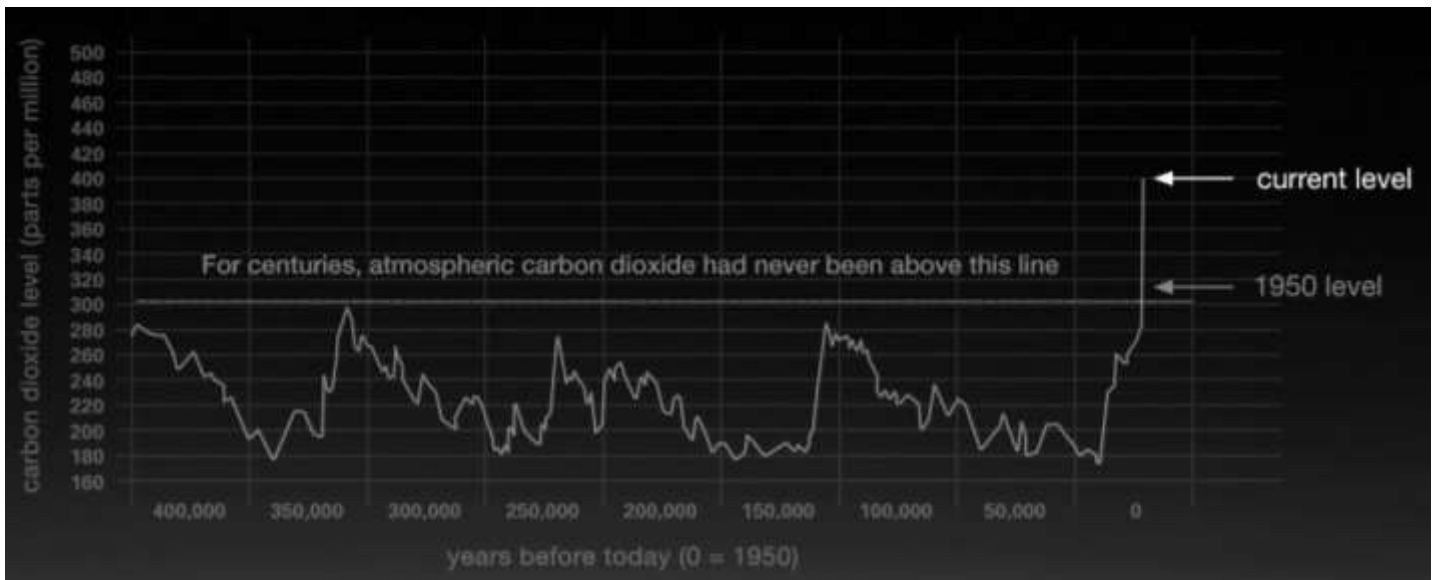
Global Warming

Task 1 deadline (self-assessed):

Task 2 deadline (peer-assessed):

Task 3 deadline (teacher-assessed):

The tasks in this booklet relate to the investigation below. Read the following information before attempting any of the tasks.



Task 1

Everyone to do- Match the key terms to the definitions:

| | |
|-------------------|--|
| Carbon dioxide | A gas which contributes to global warming and is released from burning fossil fuels. |
| Greenhouse effect | Trapping of the sun's rays in our lower atmosphere. |
| Global warming | An increase in the Earth's average temperature which is faster than previous. |
| Atmosphere | The gases surrounding the Earth. |
| Temperature | A measure of how hot or cold something is. |

Green: you will be tested on the spelling of the five key terms

Amber: you will be tested on the spelling and the definition of the key terms

Red: you will be tested on the spelling and definition of the key terms. You will also need to put each into a sentence

Killer: you will be asked for synonyms for the key terms (if there are any!)

Task 2

Green:

On paper, simply describe the pattern that is shown by the graph. Quote a minimum of 3 pieces of data. *Hint: don't forget your units!*

Peer assessment:

STAR:

STAR:

WISH:

Amber:

On paper, explain the pattern that is shown by the graph. Quote a minimum of 3 pieces of data. *Hint: don't forget your units and relate the data to Science!*

Peer assessment:

STAR:

STAR:

WISH:

Red:

On paper, explain the pattern that is shown by the graph. Quote a minimum of 3 pieces of data. Make a prediction about what will happen over the next 100 years, justifying your prediction.

Peer assessment:

STAR:

STAR:

WISH:

Task 3:

Green:

Write a list of different activities which increase global warming and an alternative method which doesn't increase global warming.

1. E.g. waste sent to landfill releases methane. Methane is a greenhouse gas which contributes to global warming. Instead, recycle.
 - 2.
 - 3.
-

Amber:

On paper, explain the difference between the greenhouse effect and global warming. What is the link between the two? 50+ words including 3 explaining terms and two comparing terms.

Red:

On paper, evaluate how successful we have been in attempting to reduce global warming.

Refer to a minimum of 3 methods, how they work and how well they have helped reduce global warming.

Use a minimum of 3 paragraphs of 50+ words each. Include two explaining terms per paragraph.