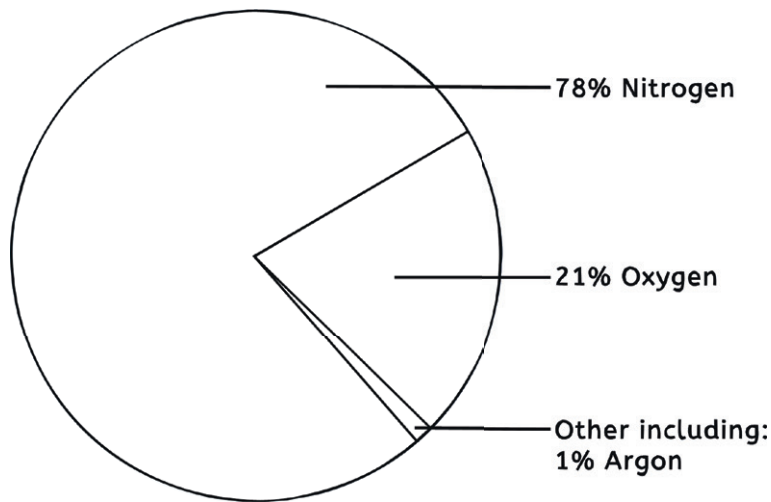


Name:	Class:	Date given:
		Date due in:

# The Atmosphere and **Climate Change**



1. The pie chart above shows the composition of the Earth's atmosphere. Show the data in a suitable table below. [3]


2. Draw a circle around the activities that increase the level of carbon dioxide in the atmosphere. [2]

burning fossil fuels

driving vehicles

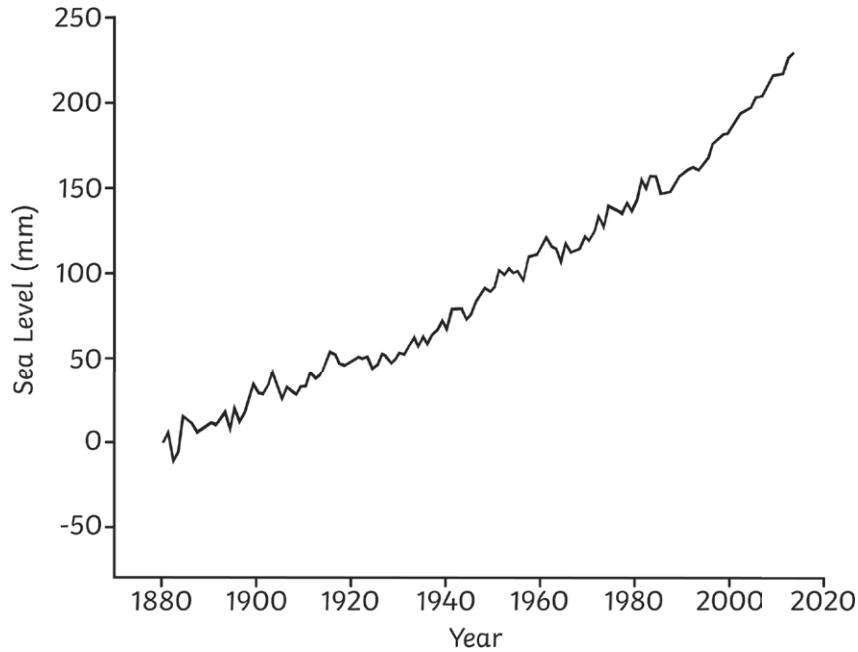
deforestation

recycling materials

3. Name two greenhouse gases. [2]

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Look at the graph below and then answer the questions.



4a. Describe what the graph is showing. [2]

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4b. Suggest a possible explanation for the changes shown on the graph, and describe the impact these changes will have on Earth and humans. [6]

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**Learning Outcomes** (tick if achieved)

Q1	I can present data in a scientific table	
Q2	I can identify factors that increase CO <sub>2</sub> in the atmosphere	
Q3	I can identify greenhouse gases	
Q4	I can describe and suggest explanations for graphical data	

# The Atmosphere and Climate Change **Answers**

1. The pie chart above shows the composition of the Earth's atmosphere. Show the data in a suitable table below. [3]

**Table to show the percentage of gases in the atmosphere**

Gas	% of atmosphere
Nitrogen	78
Oxygen	21
Other	1

**1 mark each for: title, headings, correct data**

2. Draw a circle around the activities that increase the level of carbon dioxide in the atmosphere. [2]

burning fossil fuels

driving vehicles

deforestation

recycling materials

3. Name two greenhouse gases. [2]

**Any two from: water vapour, carbon monoxide, carbon dioxide, methane, nitrous oxide, CFCs (chlorofluorocarbons), ozone**

- 4a. Describe what the graph is showing. [2]

**gradual increase over time / increase in sea level / rising sea levels over time**

- 4b. Suggest a possible explanation for the changes shown on the graph, and describe the impact these changes will have on Earth and humans. [6]

**Max six marks from:**

- climate change
- global temperature increase / global warming
- melting of polar ice caps / glaciers and ice melt
- sea levels rise
- coastal areas flood
- global warming due to greenhouse gas increase
- increase of CO<sub>2</sub> in atmosphere
- sun's energy trapped by atmosphere
- radiation trapped by gases