

**GCSE Chemistry B (Twenty First Century Science)**  
**J258/01** Breadth in Chemistry (Foundation Tier)

**Question Set 27**

Multiple Choice Questions

Fig. 1.1 shows how the average world temperature has changed since 1880.

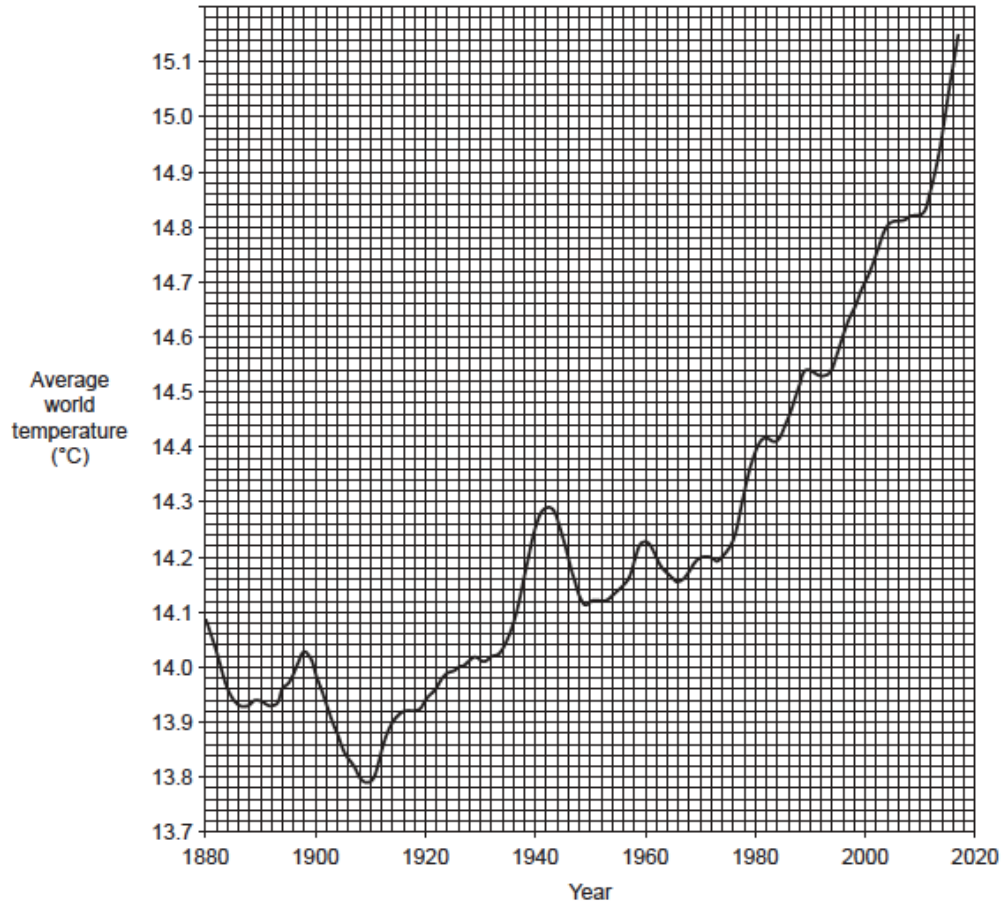


Fig. 1.1

(a) (i) Using Fig. 1.1, what was the temperature in 1910?

Temperature = .....°C [1]

(ii) Using Fig. 1.1, calculate the temperature rise between 1980 and 2000.

Temperature rise = .....°C [2]

(iii) Using Fig. 1.1, which **two** time periods show the **greatest** temperature rises?

Tick (✓) **two** boxes.

1890 – 1900

1910 – 1920

1920 – 1940

1980 – 2000

[2]

(b) Some scientists believe that world temperatures have increased due to increased amounts of greenhouse gases in the air.

(i) How do greenhouse gases increase world temperatures?

Tick (✓) **one** box.

They block out visible light from the Sun.

They form a cover around the Earth.

They absorb infrared radiation and re-emit it.

They absorb visible light from the Earth.

[1]

(ii) Carbon dioxide is a greenhouse gas.

Draw lines to connect **each** question with **one** correct answer.

**Question**

What can directly increase the amount of carbon dioxide in the air?

What can reduce the amount of carbon dioxide emissions into the air?

**Answer**

People burning more fossil fuels.

People recycling less.

People changing to electric cars.

People throwing away plastics.

[2]

**Total Marks for Question Set 27: 8**

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