

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

Question Set 1

Multiple Choice Questions

1. The greenhouse effect keeps the Earth warm so that life can survive.

(a) Carbon dioxide and water vapour are greenhouse gases.

Which gas in the list below is also a greenhouse gas?

Tick (✓) **one** box.

Hydrogen

Methane

Nitrogen

Oxygen

[1]

(b) This table shows the average surface temperature increase of the Earth since 1952.

| Year | Temperature Increase since 1952 (°C) |
|------|--------------------------------------|
| 1952 | 0.00 |
| 1962 | 0.05 |
| 1972 | 0.00 |
| 1982 | 0.14 |
| 1992 | 0.22 |
| 2002 | 0.62 |
| 2012 | 0.62 |

(i)

Describe how the Earth's temperature has increased since 1952.

[1]

- (ii) Roughly how many times greater was the temperature increase in 2002 compared to the temperature increase in 1962?

Tick (✓) **one** box.

0.6

1.2

12

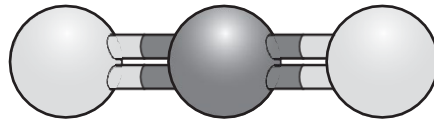
60

[1]

- (c) Here is a model of a molecule of carbon dioxide.

Draw lines to link parts of this model to the correct labels.

Some of the labels are incorrect.



Carbon atom

Double bond

Hydrogen atom

Ionic bond

[3]

Total Marks for Question Set 1: 6

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