AQA GCSE Combined Science - Trilogy | 8464

SPECIFICATION POINT 5.1.2.3

Metals and non-metals

Past-paper questions

Tier	**Higher**
Question groups	**1**
Available paper years	**2022–2022**

Using this booklet

1. Answer the questions in order and show your working.
2. Original question numbers and marks are retained.
3. Print at actual size (100%) for measuring questions.
4. Use the companion answer booklet to check your work.

Name: _____ **Date:** _____

Whole questions are retained for context, so some parts assess other specification points. Current and legacy sources are labelled. Continue on extra paper if needed.

5.1.2.3 Metals and non-metals

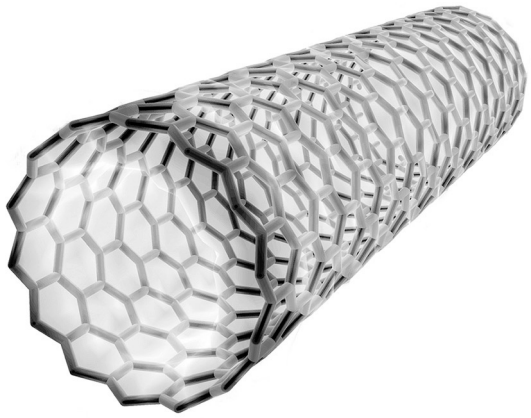
Question 01

June 2022 | 8464/C/1H | Original Q5

0 5 This question is about structure and bonding.

0 5 . 1 **Figure 5** represents part of a carbon molecule.

Figure 5



Name the type of carbon molecule in **Figure 5**.

[1 mark]

0 5 . 2 Suggest **one** property that makes the carbon molecule in **Figure 5** useful in nanotechnology.

[1 mark]

5.1.2.3 Metals and non-metals

Question 01 · continued

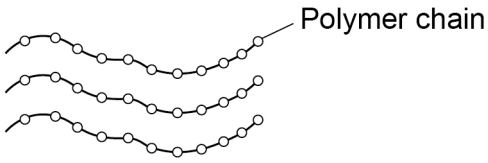
0 5 . 3 An alloy of aluminium contains small amounts of other metals.

Explain why other metals are added to aluminium.

[4 marks]

0 5 . 4 **Figure 6** represents part of the structure of a polymer.

Figure 6



Compare the bonding within the chains with the forces between the chains in this polymer.

[3 marks]

9