AQA GCSE Combined Science - Trilogy | 8464

SPECIFICATION POINT 5.2.2.1

The three states of matter

Mark schemes and examiner comments

Tier	**Higher**
Question groups	**1**
Available paper years	**2020–2020**

Using this booklet

1. Booklet answer numbers match the question booklet.
2. Use the original question number within marking tables.
3. Examiner comments are included where available.

Name: _____ **Date:** _____

Where a precise marking extract is unavailable, the full source document is included in an appendix. Any missing mark scheme is explicitly identified.

5.2.2.1 The three states of matter

Answer 01 · Mark scheme November 2020 | 8464/C/1H | Original Q2

02.1	any **one** from: • not to scale • not 3 dimensional / D • incorrect arrangement in space • electrons / shells not shown	allow size of atoms incorrect allow atoms are separated ignore properties of water	1	AO2 5.2.1.4
02.2	weak	allow weaker	1	AO1 5.2.2.4
02.3	CH_4O	allow CH_3OH	1	AO2 5.2.1.4
02.4	4		1	AO1 5.2.3.1
02.5	any **two** from: • (very) hard • (very) high melting point • does not conduct electricity	allow strong allow high thermal conductivity ignore shiny	2	AO1 5.2.3.1

5.2.2.1 The three states of matter

Answer 01 · Mark scheme

02.6	graphite silicon dioxide	allow graphene allow silica allow silicon allow polymer(s) **or** allow (named) polymer(s) allow fullerene **or** allow carbon nanotubes ignore buckminsterfullerene	1 1	AO1 5.2.2.6
Total			**8**	

5.2.2.1 The three states of matter

Answer 01 · Mark scheme

November 2020 | 8464/C/1H | Original Q2

Question	Answers	Mark	AO/ Spec. Ref