Atomic structure - 2021/20 GCSE Gateway Chemistry Combined Science A

١.	Nov/2021/Paper_J250/03/No.16
	Helium and neon are the first two elements in Group 0 of the Periodic Table.
	Look at the symbols for helium and neon.

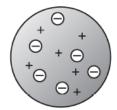
2	10
He	Ne
4	20

Describe the similarities and differences in the atomic structures of helium and neon.

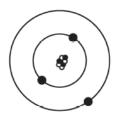
2. Nov/2020/Paper_J250/03/No.3

The diagrams show three different models of the atom.

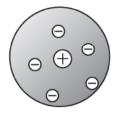
1



2



3



What is the correct order for the development of the three models, starting with the earliest?

A 1, 3, 2

B 1, 2, 3

C 3, 1, 2

D 3, 2, 1

Your answer

[1]

3. Nov/2020/Paper_J250/09/No.9

Which ionic equation is balanced correctly?

$$A \quad 2Ag^+ + CO_3^{2-} \longrightarrow Ag_2CO_3$$

$$\mathbf{B} \quad \mathrm{A}\mathit{l}^{3+} + \mathrm{3OH^{-}} \longrightarrow \mathrm{A}\mathit{l}\mathrm{OH}_{3}$$

$$\mathbf{C} \quad \mathrm{Ba^{2+} + SO_4^{2-}} \longrightarrow \mathrm{Ba_2(SO_4)_2}$$

$$D \quad 2Pb^{2+} + NO_3^- \rightarrow Pb_2NO_3$$

Your answer

[1]