

The Periodic Table: development and modern layout

Q1. (2018)

0 6 . 2 The relative formula mass (M_r) of a Group 2 metal carbonate is 197

Relative atomic masses (A_r): C = 12 O = 16

Calculate the relative atomic mass (A_r) of the Group 2 metal in the metal carbonate.

Name the Group 2 metal.

[3 marks]

Relative atomic mass (A_r) = _____

Metal _____

Q2. (2019)

0 4 . 1 What order did scientists use to arrange elements in early periodic tables?

[1 mark]

Q3. (2019)

0 4 . 2 In the early periodic tables some elements were placed in the wrong groups.

Mendeleev overcame this in his periodic table.

Give **one** way Mendeleev did this.

[1 mark]

Q4. (2020)

0 7 . 3 Figure 6 shows part of Mendeleev's periodic table.

Figure 6

16 O	19 F
32 S	35.5 Cl
79 Se	80 Br
128 Te	127 I

Explain why the early periodic tables placed iodine (I) before tellurium (Te), but then Mendeleev placed tellurium before iodine.

[3 marks]

Q5. (2021)

0 1 . 1 **Figure 1** shows part of Mendeleev's version of the periodic table.

Figure 1

H							
Li	Be	B	C	N	O	F	
Na	Mg	Al	Si	P	S	Cl	
K	Ca	Zn		Ti	V	Cr	Mn
	Cu				As	Se	Br
Rb	Sr	Y		Zr	Nb	Mo	
	Ag	Cd	In	Sn	Sb	Te	I
							Ru Rh Pd

Which group of elements had **not** been discovered when Mendeleev's version of the periodic table was published?

[1 mark]