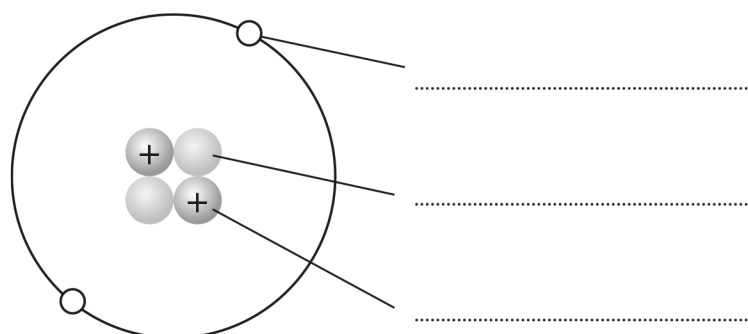


The structure of the atom (1)

1 Complete the following sentences. (3 marks, ★★)

- a The atom is composed of 3 subatomic particles: _____, _____ and _____.
- b The centre of the atom is called the _____ and contains _____ and _____.
- c An atom contains the same number of _____ and _____ and has a _____ charge.

2 The diagram shows a simplified helium atom. Insert on the diagram the missing names of the subatomic particles. (3 marks, ★★)



3 Complete the table below. (4 marks, ★★)

Particle	Symbol	Relative mass	Charge
Proton	p		+1
Neutron	n	1	
Electron	e ⁻		

NAILIT!

Ideas about the atom have evolved over the centuries. Make sure that you understand the basics of each model.

4 Describe our current understanding of the nuclear model of the atom. Make particular reference to the following: radius, size of atom, electron arrangement and mass of atom. (6 marks, ★★★★★)

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