

GCSE Chemistry A (Gateway Science)

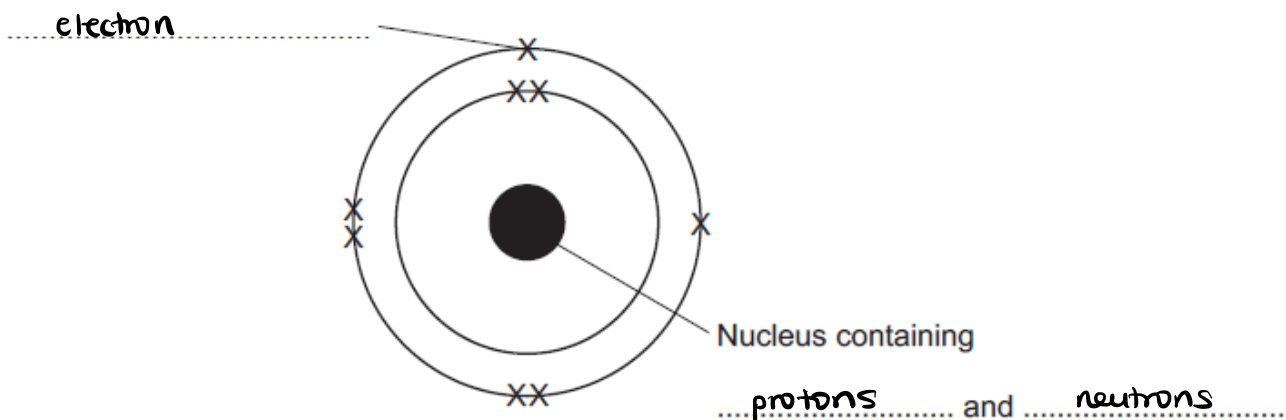
J248/01 Chemistry A C1-C3 and C7 (Foundation Tier)

Question Set 30

1 All elements are made of atoms.

Atoms are made of subatomic particles.

(a) (i) Complete the labels on the diagram of an atom.



[2]

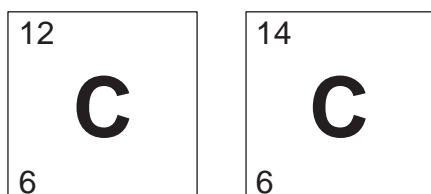
(ii) Atoms have no overall charge.

Explain why.

Use ideas about subatomic particles in your answer.

There are same number of protons (positively charged) and electrons (negatively charged). These two particles cancel out each other's charges.

(b) Look at the information about two isotopes of carbon.



Explain why these are called isotopes.

They have same number of protons (and electrons) but different number of neutrons (6 and 8). Hence why their mass number is different. [2]

Total Marks for Question Set 30: 5

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