

THE CONNECTION BETWEEN ATOMIC NUMBER AND NUMBER OF PROTONS

Paper: 1C
Question: 2(c)

Question

An atom of element Q has 31 protons.

Use this information to explain how you can determine the number of protons in an atom of element R.

(2)

Mark Scheme

<p>An explanation linking the following two points:</p> <p>M1 33</p> <p>M2 because the atomic number of R is two more (than Q)</p> <p>OR because R is two places to the right / two places further on/along (in the period)</p>	<p>ALLOW R has two more protons than Q</p> <p>ACCEPT for each successive element (in the period) there is one more (proton) /the atomic number increases by one</p> <p>ACCEPT they are in the same period but Q is in group 3 and R is in group 5</p> <p>IGNORE reference to electrons</p>
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