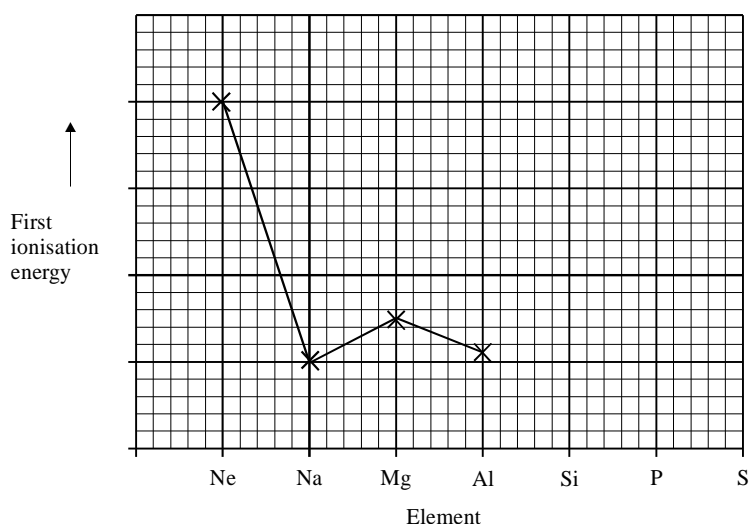


1.1 – ATOMIC STRUCTURE – PPQ7

Name Form



- 7) The diagram below shows the trend in the first ionisation energies of the elements from neon to aluminium.



- a) Draw crosses on the graph to show the first ionisation energies of silicon, phosphorus and sulphur. (3)

- b) Write an equation to illustrate the process which occurs during the first ionisation of neon. (1)

..... (1)

- c) Explain why the first ionisation energy of neon and that of magnesium are both higher than that of sodium. (4)

Explanation for neon

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Explanation for magnesium

.....

..... (4)

- d) Explain why the first ionisation energy of aluminium is lower than that of magnesium. (2)

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..... (2)