

1.1 – ATOMIC STRUCTURE – PPQ6



Name Form

6) There is a general trend in the values of the first ionisation energies of the elements Na to Ar. The first ionisation energies of the elements Al and S deviate from this trend.

a) Write an equation, including state symbols, to represent the process for which the energy change is the first ionisation energy of Na.

..... (2)

b) State and explain the general trend in the values of the first ionisation energies of the elements Na to Ar.

Trend

Explanation

.....

..... (3)

c) State how, and explain why, the values of the first ionisation energies of the elements Al and S deviate from the general trend.

How the values deviate from the trend

Explanation for Al

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Explanation for S

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..... (5)