

- Complete the following table, providing the ground state electron configuration for each of the following species.

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Species	Ground state electron configuration
chlorine atom	$1s^2 2s^2 2p^6 3s^2 3p^5$
magnesium ion	$1s^2 2s^2 2p^6$
arsenic(V) ion	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^0 3d^{10}$