

- 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
nitrogen atom	$1s^2 2s^2 2p^5$ or $[\text{He}] 2s^2 2p^3$
chloride ion	$1s^2 2s^2 2p^6 3s^2 3p^6$ or $[\text{Ne}] 3s^2 3p^6$
manganese(II) ion	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^0 3d^5$ or $[\text{Ar}] 4s^0 3d^5$