



### Topic 1 Exercise 3 - electronic configuration

Write the electronic configuration of the following using the arrow and box method:

1. C
2. Cu
3.  $\text{Mg}^+$

Write the electronic configuration of the following using the orbital method:

4.  $\text{N}^{3-}$
5. Ar
6.  $\text{Sc}^{3+}$
7.  $\text{Mn}^{2+}$
8.  $\text{Fe}^{3+}$
9.  $\text{V}^{3+}$

Write the electronic configuration of the following using the shorthand arrow and box method:

10.  $\text{Cl}^-$
11. Fe
12. Br

Write the electronic configuration of the following using the shorthand orbital method:

13. Cr
14.  $\text{Ga}^{3+}$
15.  $\text{Pb}^{2+}$