

1) What is the electronic configuration of Ca^{2+} ?

2) Write an ionic equation for the reaction of magnesium with hydrochloric acid. Include state symbols.

3) Describe and explain the first ionisation energy of the elements in the first period from lithium to neon.

4) Which element in the period 2 has the highest melting point?

5) Draw the bonding in cobalt and explain why cobalt is ductile.