

Year 12 Chemistry
Quick Quiz: Elemental Chemistry

1. Write the electron configuration for the following:
 - (a) strontium

 - (b) Fe^{2+}

2. What is the name given to the Group I elements?

3. Write the charge of the monatomic ion for the following:
 - (a) carbon

 - (b) phosphorus

 - (c) oxygen

4. Write the covalences for the following elements:
 - (a) N

 - (b) sulfur

5. For the following elements, state whether the electronegativity is high, intermediate or low, and write an equation (if it reacts) for the reaction of the given oxide with water.
 - (a) Potassium (use oxide K_2O)

 - (b) Be (use oxide BeO)

6. For the following molecules, write the oxidation state of each element:
 - (a) SO_3
 - (c) H_2O_2
 - (b) HCO_3^-
 - (d) $\text{Be}_3\text{Al}_2(\text{SiO}_3)_6$

7. Draw the following molecules. Include bond and molecular polarity. Name the shape.
 - (a) NH_3

 - (b) PO_4^{3-}