

Year 12 Chemistry  
Quick Quiz: Elemental Chemistry

1. For the following elements, write the information as required:
  - (a) boron
    - (i) the group in which it is found
    - (ii) the block to which it belongs
    - (iii) the electron configuration
  
  - (b) Cr
    - (i) the period in which it is found
    - (ii) the block to which it belongs
    - (iii) the electron configuration
  
2. What are the names given to the following:
  - (a) Group II
  
  - (b) Group VII
  
3. Write all possible charges for monatomic ions of the following:
  - (a) aluminium
  
  - (b) tin
  
  - (c) fluoride
  
4. Write the valences for the following elements:
  - (a) boron
  
  - (b) Cl
  
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) Calcium (use oxide CaO)
  
  
  
  - (b) N (use oxide NO<sub>2</sub>)
  
  
  
  - (c) silicon (use oxide SiO<sub>2</sub>)
  
6. Explain why the ammonia (NH<sub>3</sub>) molecule is polar.