

## C3 – Analysis Quiz

1. What colour do calcium ions give in a flame test?
2. What colour do lithium ions give in a flame test?
3. What colour do sodium ions give in a flame test?
4. What colour do potassium ions give in a flame test?
5. What colour do barium and copper ions give in a flame test?
6. If a substance contains both sodium and potassium ions, why is it difficult to identify both in a flame test?
7. How do you test for chloride, bromide and iodide ions?
8. How do you test for carbonate ions?
9. How do you test for sulphate ions?
10. How do you test for aluminium, iron(II), iron(III), copper, calcium and magnesium ions?
11. How do you distinguish between aluminium, calcium and magnesium hydroxide?
12. What piece of apparatus is used to measure out volumes of solutions?

13. How do you read the volume off a burette?
  
14. Name an indicator used in a titration.
  
15. How do you calculate moles from volume and concentration data?
  
16. How do you use titration results to find the concentration of an unknown solution?
  
17. How do you convert  $\text{mol dm}^{-3}$  to  $\text{g dm}^{-3}$ ?
  
18. How do you carry out a titration?