

# S3 Chemistry

- 1) Make sure you have read the word file- Please read first.
- 2) Read through the PowerPoint – Indicators of Chemical reaction.
- 3) Look through the PowerPoint file – Chemical Quiz.
- 4) Write down which ones are Chemical reactions and which one Physical  
E.g Sparkler burning – Chemical
- 5) Answer the following questions
  - A) State which of the following are Chemical reactions and SAY WHY.
    - 1) Baking a cake.
    - 2) Boiling water.
    - 3) Paint drying.
    - 4) Food digesting.
    - 5) Hair growing.
  - B) A student wrote a report about an experiment her teacher showed the class.  
*Mr Smith dropped a piece of very thin metal into a jar which had chlorine gas in it. The metal shrivelled up. Then it went on fire. When it stopped burning there was a solid in the jar which wasn't there at the start.*
    - 1) From the students report give **two** pieces of evidence which indicate that a chemical reaction had taken place.
    - 2) The experiment had to be carried out in the fume cupboard. What does this tell you about chlorine gas ?
  - C) What are the four indicators of a chemical reaction ?
  - D) A student mixed two colourless liquids together in a test tube. Very soon bubbles could be seen in the mixture and a yellow solid was produced. List the three indicators which would tell you that a chemical reaction has taken place.