

# GCSE Chemistry Required Practicals

**Making salts:** Preparation of a pure, dry sample of a soluble salt from an insoluble oxide or carbonate using a Bunsen burner to heat dilute acid and a water bath or electric heater to evaporate the solution.

**Chromatography:** Investigate how paper chromatography can be used to separate and tell the difference between coloured substances. Students should calculate  $R_f$  values.

**Identifying ions:** Use of chemical tests to identify the ions in unknown single ionic compounds covering the ions from Flame tests and sulphates.

**Neutralisation:** Determination of the reacting volumes of solutions of a strong acid and a strong alkali by titration.

**Temperature changes:** Investigate the variables that affect temperature change in chemical reactions e.g. acid plus alkali.

**Rates of reaction:** Investigate how changes in concentration affect the rates of reactions by both measuring the volume of a gas produced and monitoring a change in colour or turbidity.

**Electrolysis:** Investigate what happens when aqueous solutions are electrolysed using inert electrodes.

**Water purification:** Analysis and purification of water samples from different sources. To include pH measurement, removal of dissolved solids and distillation.

Link to practical handbook:

<http://www.aqa.org.uk/resources/science/gcse/teach/practicals>