



Stepping up to 'A' level Chemistry Pre Course Task

Complete a risk assessment for at least **two** of the practical exercises you will be completing on the course.

Procedure

- Write down the procedures you will be using (chemicals used or made, quantities, concentrations, techniques; any non-chemical hazards).
- Use reference sources to identify any hazardous chemicals you are to use or make.
- Record the nature of the hazards involved and the way you might be exposed to the hazard. There are standard reference sources with this information such as the 'Hazcards' published by CLEAPSS.
- Decide what protective or control measure to take so that you can carry out the practical work healthily and in safety.
- Find out how to dispose of any hazardous residues from the practical work.
- A suitable form to record the information is provided.

Practicals to consider

- Thermal Decomposition Reactions of solid hydrated cobalt (ii) chloride; hydrated copper (ii) nitrate; zinc carbonate; copper carbonate
- Precipitation reactions involving sodium hydroxide, 0.4 M, iron (ii) sulphate, 0.2 M, iron (iii) nitrate, 0.2 M, and copper (ii) sulphate, 0.2 M, 5 cm³
- Measuring some energy changes using a simple foam polystyrene cup and lid, a thermometer and citric acid, 1 M, copper (ii) sulphate, 0.2 M, sodium hydrogencarbonate, 10 g and zinc powder, 1 g.
- The Extraction of Iodine from seaweed by burning about 5g of dried seaweed to ash on a tin lid dissolving, filtering and adding sulphuric acid and 20 volume hydrogen peroxide to the solution.
- Reactions of the halogenoalkanes using 1-chlorobutane, 1-bromobutane, 1-iodobutane, 2-chlorobutane, 2-chloro-2-methylpropane and 0.02 M silver nitrate

Risk assessment form:

Title of the experiment:

Outline of the procedures:

Hazardous substances used or made:	Nature of the hazards (e.g. toxic, flammable):	Quantities and concentrations used or made:	Control measures (precautions):

Any non-chemical hazards and precautions to be taken:

Disposal of residues: