

# IAL CHEMISTRY

## Core Practicals

There are 8 Core Practicals for AS:

<b>CP 1</b>	Measurement of the molar volume of a gas
<b>CP 2</b>	Determination of the enthalpy change of a reaction using Hess's Law
<b>CP 3</b>	Finding the concentration of a solution of hydrochloric acid
<b>CP 4</b>	Preparation of a standard solution from a solid acid and use it to find the concentration of a solution of sodium hydroxide
<b>CP 5</b>	Investigation of the rates of hydrolysis of some halogenoalkanes
<b>CP 6</b>	Chlorination of 2-methylpropan-2-ol with concentrated hydrochloric acid
<b>CP 7</b>	The oxidation of propan-1-ol to produce propanal and propanoic acid
<b>CP 8</b>	Analysis of some inorganic and organic unknowns

There are 8 further Core Practicals for A2:

<b>CP 9</b>	(a) Following the rate of the iodine-propanone reaction by a titrimetric method (b) investigating a 'clock reaction' (Harcourt-Esson, iodine clock)
<b>CP 10</b>	Finding the activation energy of a reaction
<b>CP 11</b>	Finding the $K_a$ value for a weak acid
<b>CP 12</b>	Investigating some electrochemical cells
<b>CP 13</b>	Carry out redox titrations with both: (i) iron(II) ions and potassium manganate(VII) (ii) sodium thiosulfate and iodine
<b>CP 14</b>	The preparation of a transition metal complex
<b>CP 15</b>	Analysis of some inorganic and organic unknowns
<b>CP 16</b>	The preparation of aspirin