

## Subject - KS5 AQA CHEMISTRY

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 12	<p><b>Physical chemistry</b> Atomic structure and Amount of substance</p> <p>Physical Required practical e.g. Make up a volumetric solution and carry out a simple acid-base titration</p> <p><b>Organic chemistry</b> Introduction to organic chemistry and Alkanes</p>	<p><b>Physical chemistry</b> Bonding</p> <p><b>Organic chemistry</b> Halogenoalkanes, alkenes and Alcohols</p> <p>Organic Required practical e.g. Distillation of a product from a reaction</p>	<p><b>Physical chemistry</b> Energetics and Kinetics</p> <p>Physical Required practical's e.g. Measurement of an enthalpy change Investigation of how the rate of a reaction changes with temperature</p> <p><b>Organic chemistry</b> Organic analysis</p> <p>Organic Required practical e.g. Carry out simple test-tube reactions to identify cations and anions in aqueous solution</p>	<p><b>Physical chemistry</b> Chemical equilibria, Oxidation, reduction and redox equilibria</p> <p><b>Inorganic Chemistry</b> Periodicity and Group 2 the alkaline metals</p> <p><b>Inorganic chemistry</b> Group 7, the halogens</p>	<p>Catch up and review</p> <p>Exam preparation</p>	<p>Exam preparation</p> <p>End of year exams</p>

Year 13	<b>Physical chemistry</b> Acids, bases and buffers and Rate equations	<b>Physical chemistry</b> Equilibrium constant $K_p$ for homogenous systems and Thermodynamics	<b>Inorganic chemistry</b> Properties of period 3 elements and their oxides	<b>Physical chemistry</b> Electrode potentials and electrochemical cells	Catch up and review Exam preparation  Exam preparation Final exams	<b>Official Examinations</b>
	<b>Physical Required practical's e.g.</b> Investigate how pH changes when a weak acid reacts with a strong base and when a strong acid reacts with a weak base Measuring the rate of a reaction by an initial rate method by a continuous monitoring method			<b>Physical Required practical's e.g.</b> Measuring the EMF of an electrochemical cell		

