

Subject - KS5 AQA CHEMISTRY

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

Year 13	Physical chemistry Acids, bases and buffers and Rate equations Physical Required practical's e.g. 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	Physical chemistry Equilibrium constant Kp for homogenous systems and Thermodynamics	Physical chemistry Properties of period 3 elements and their oxides	Physical chemistry Electrode potentials and electrochemical cells Physical Required practical's e.g. Measuring the EMF of an electrochemical cell	Catch up and review Exam preparation Exam preparation Final exams	Official Examinations
	Organic chemistry Optical isomerism, Aldehydes and ketones and Carboxylic acids and derivatives Organic Required practical's e.g. Preparation of a pure organic solid and test its purity a pure organic liquid	Organic chemistry Aromatic chemistry, Amines and Polymers	Organic chemistry Amino acids, proteins and DNA, Organic synthesis and NMR spectroscopy	Organic chemistry Transition metals and Reactions of ions in aqueous solution ad and Chromatography Organic Required practical's e.g. Carry out simple test-tube reactions to identify transition metal ions in aqueous solution Separation of species by thin-layer chromatography		

