

Year 12 Chemistry

Year Calendar Plan		
Dates	Lesson Focus	Assessment/Revision
Term 1	2.1.1 Atomic structure and isotopes 2.1.2 Compounds, formulae & equations 2.1.3 Amount of substance 2.1.4 Reactions of acids & Acid-base titrations 3.1.4 Qualitative Analysis 2.2.2 Bonding & Structure (part) – to cover ionic bonding, covalent bonding & shapes of molecules	PAG 1.2 Determination of relative atomic mass of a group 2 element PC1 (2.1.1, 2.1.2, 2.1.3, 2.1.4, 3.1.4) PAG 2.1 Determination of concentration of hydrochloric acid
Term 2	2.2.1 Electron structure 3.1.1 (part) Periodic trends in ionisation energies 2.2.2 (part) Electronegativity & bond polarity, intermolecular forces 2.1.5 Redox 3.1.2 Group 2 3.1.3 Group 7	PC3 (modules 1, 2 and 3.1.1 & 3.1.4)
Term 3	3.2.1 Enthalpy changes 4.1.2 Alkanes (and relevant 4.1.1 Basic concepts) 4.1.3 Alkenes (and relevant 4.1.1 Basic concepts)	PAG 3.3 Determination of Enthalpy Changes of Combustion PAG 4.2 Identifying Unknown compounds using tests for ions PC3 (module 1, 2 and 3.1)
Term 4	4.2.1 Alcohols (including hydrogen bond revision) & 4.2.3 (part) Organic Synthesis - practical Skills 4.2.4 Analytical Techniques 3.2.2 Reaction Rates	PAG 3.2 Determination of an enthalpy change of reaction by Hess' Law PAG 5.3 Oxidation of Alcohols PAG 5.2 Preparation of Cyclohexene PC4 (modules 1 to 4 covered to date)
Term 5	4.2.2 Haloalkanes 3.2.3 Chemical Equilibrium Revision Titration Calculations Revision (3.1.4 Qualitative Analysis) Organic Revision - 4.2.3 (part) Synthetic Routes (including mechanisms review) Revision enthalpy changes	PAG 2.3 Identifying unknown carbonate PAG 4.1 Identifying Unknowns (1)
Term 6	Revision calculations Past paper work for Breadth and depth in Chemistry papers 5.1.2 How Far? (to include calculation of K_c when only one equilibrium amount given) 5.2.1 Lattice enthalpy (to include Born Haber diagrams and factors that affect lattice enthalpy) 5.1.1 How fast?	PC5 all modules 1 to 4 PAG 10.2 Initial Rates methods

