Module 1	Module 2	Module 3	Module 4	Module 5	Module 6			
Development of Practical	Foundations in Chemistry	Periodic Table and Energy	Core Organic Chemistry	Physical Chemistry and	Organic Chemistry and			
Skills in Chemistry				Transition Elements	Analysis			
Building on:	Building on:	Building on:	Building on:	Building on:	Building on:			
KS4:	KS4:	KS4:	KS4:	KS4/5	KS4/5			
Practical skills developed	Basic Atomic Structure	Groups 1, 7 and 0	Basics of hydrocarbons	Reactions of acids	Polymers			
throughout KS4	Bonding	Factors that effect Rate	Instrumental methods of	Bond enthalpies	Recycling			
	Reacting Masses	Dynamic Equilibrium	analysis	Metallic Bonding	Organic Synthesis and			
		Endothermic and exothermic		Redox	Analytical Techniques			
		reactions						
Autumn 1 Autumn 2 Spring 1 Spring 2 Summer 1 Summer								

AS Route 1	Atoms, compounds, molecules and equations	Amount of substance	Reaction Rates (qualitative)	Equilibrium (qualitative)	Enthalpy Changes	External Examinations
AS Route 2	The periodic table and periodicity	Group 2 and the halogens	Basic concepts and Hydrocarbons	Alcohols and Haloalkanes	Organic Synthesis and Analytical Techniques	
A2 Route 1	Reaction Rates and Equilibrium (quantitative)	pH and Buffers	Enthalpy, Entropy and Free Energy	Redox and Electrode potentials and Transition Elements	Exam Preparations	External Examinations
A2 Route 2	Aromatic Compounds Carbonyl Compounds Carboxylic Acids	•	Organic Synthesis, Chromatography and Spectroscopy	Qualitative analysis of Ions		

Module 1 AS PAG : Moles determination, Acid-base titrations, Enthalpy determination, Qualitative analysis ions, Synthesis of an organic liquid, Synthesis of an organic solid, Qualitative analysis of organic functional groups, Rates of reaction - continuous monitoring method

Module 1 A2 PAG: Qualitative analysis of organic functional groups, Electrochemical cells, Rates of reaction – continuous monitoring method, Rates of reaction - initial rates method, pH measurement, Research skills on metal content