

Chemistry KS5

Year 12	Physical Chemistry 1 <ul style="list-style-type: none"> • Atomic structure • Amount of substance • Bonding • Energetics • Kinetics • Equilibria • Oxidation, reduction and redox reactions 	Inorganic Chemistry 1 <ul style="list-style-type: none"> • Periodicity • Group 2 the Alkaline Earth Metals Group 7 the Halogens	Organic Chemistry 1 <ul style="list-style-type: none"> • Introduction to organic chemistry • Alkanes • Halogenoalkanes • Alkenes • Alcohols Organic analysis
Year 13	Physical Chemistry 2 <ul style="list-style-type: none"> • Thermodynamics • Equilibrium constant • Electrode potentials • Acids, bases and buffers 	Inorganic Chemistry 2 <ul style="list-style-type: none"> • Periodicity • The transition metals • Reactions of inorganic compounds in solution 	Organic Chemistry 2 <ul style="list-style-type: none"> • Compounds containing the carbonyl group • Aromatic chemistry • Amines • Polymerisation • Amino acids, proteins and DNA • Organic Synthesis • Structure determination Chromatography

The A Level exams at the end of year 13 will cover content from year 12 and 13 and also examine the practical activities that you will carry out throughout your course.

Practical activities you carry out during the course will also be assessed for a pass in practical skills.