

Chemistry

Key Stage 5 – A Level - AQA

Physical Chemistry	Inorganic Chemistry	Organic Chemistry
<ul style="list-style-type: none">• Atomic structure• Amount of substance• Bonding• Energetics• Kinetics• Chemical equilibria, Le Chatelier's principle and K_c• Oxidation, reduction and redox equations• Thermodynamics• Rate equations• Equilibrium constant K_p for homogeneous systems• Electrode potentials and electrochemical cells• Acids and bases	<ul style="list-style-type: none">• Periodicity• Group 2, the alkaline earth metals• Group 7(17), the halogens• Properties of Period 3 elements and their oxides• Transition metals• Reactions of ions in aqueous solution	<ul style="list-style-type: none">• Introduction to organic chemistry• Alkanes• Halogenoalkanes• Alkenes• Alcohols• Organic analysis• Optical isomerism• Aldehydes and ketones• Carboxylic acids and derivatives• Aromatic chemistry• Amines• Polymers• Amino acids, proteins and DNA• Organic synthesis• Nuclear magnetic resonance spectroscopy• Chromatography