

Curriculum Maps – Year 11
Science: Chemistry (Separate Sciences)

Overview of the year: In Year 11, you will learn about the remaining topics from Chemistry and will revise in preparation for your GCSE exams. The Edexcel Chemistry course has two exams – “Paper 1” and “Paper 2”. During this year, you will continue to learn about the topics which are assessed in “Paper 2” for Chemistry. Throughout the course there are 8 Core Practicals – these are experiments which you must carry out before you sit your exam.		Ways to consolidate and extend your learning in Chemistry: Complete your Tassomai daily goal Answer past paper questions from physicsandmathstutor.com Answer questions from your Edexcel Chemistry textbook and your CGP revision guide Visit museums and scientific centres (all with free entry) are; The Science Museum, National History Museum, Wellcome Collection, Faraday Museum, Anaesthesia Heritage Centre, Kirkaldy Testing Museum, and Horniman Museum.		
Half Term	Unit title	Knowledge	Skills	Assessment
1	<u>CGP Book Topics 6 and 9</u> SC17 Groups in the Periodic Table SC25 Qualitative Analysis: Tests for Ions SC26 Bulk and Surface Properties of Matter Including Nanoparticles	Patterns within in the periodic table Alkali metals, halogens, noble gases Cations and anions, halides Properties of materials, nanoparticles and surface area	Identifying patterns and trends Using standard form Surface area calculations Safely using Bunsen burners Use appropriate qualitative reagents and techniques to analyse and identify unknown samples	End of topic tests Phase tests Core Practicals PPEs
2	<u>CGP Book Topics 7</u> SC18 Rates of Reaction and SC19 Heat Energy Changes in Chemical Reactions	Factors affecting reaction rates – concentration, surface area, pressure, temperature Catalysts and activation energy Endothermic and exothermic reactions	Safely conducting experiments Interpreting graphs Calculating gradients of tangents to curves Use ratios in balanced equations	End of topic tests Phase tests Core Practicals
3	<u>CGP Book Topics 8 and 9</u> SC22 Hydrocarbons SC24 Polymers SC20 Fuels SC21 Earth and Atmospheric Science SC23 Alcohols	Alkanes and alkenes Combustion – complete and incomplete Breaking down hydrocarbons Climate change Alcohols and carboxylic acids	Drawing structural formulae Comparing correlation and causation Construct bar charts or graphs of the experimental results	End of topic tests Phase tests Core Practicals
4-5	GCSE Exam Preparation	Topics for revision will be identified based on pupils’ attainment in assessments	Revising effectively Skills from previous units in Y10 and Y11 will be revised and practiced	PPEs GCSE Exams