



The progressive, inclusive curriculum 'skills, knowledge and concepts: literacy, life skills and enrichment'

CURRICULUM MAP – AS Chemistry

Term Autumn 12 weeks	Advanced Year 12 Chemistry	Term Spring 11 weeks	Advanced Year 12 Chemistry	Term Summer 14 weeks	Advanced Year 12 Chemistry
<p>Autumn: 12 weeks</p> <p>Literacy / numeracy foci Reading skills Comprehension skills Science glossary of terms Writing skills Arithmetic and numerical computation Handling data Algebra Graphs Geometry and trigonometry</p> <p>Homework Transition Work – Summer Holidays End-of-Chapter Exam questions Presentations</p> <p>Revisiting, revising, remembering opportunities Exam question starters from previous topics Retrieval practice Assessments</p> <p>Assessments Year 12 Transition Work Year 12 EOC Test/EOC HWK</p> <p>Blended learning for students that are self-isolating</p>	<ul style="list-style-type: none"> • Atomic Structure • Amount of substance • Bonding • Energetics • Kinetics • Equilibria <p>Assessment objectives: AO1, AO2, AO3</p> <p>Enrichment/life and work skills:</p> <ul style="list-style-type: none"> • Group work/collaboration • Research skills • Public speaking • Empathy <p>SMSC Opportunities: The KS5 Chemistry course continues to develop a pupils ability to make judgements and make reasoned opinions built on knowledge gained at KS3 and KS4</p> <p>Extra Curricular opportunities and trips: TBC</p> <ul style="list-style-type: none"> • Science lectures • Trouble with Science is Ethics 	<p>Spring: 10 weeks</p> <p>Literacy / numeracy foci Reading skills Comprehension skills Science glossary of terms Writing skills Arithmetic and numerical computation Handling data Algebra Graphs</p> <p>Homework End of chapter examination questions Presentations</p> <p>Revisiting, revising, remembering opportunities Exam question starters from previous topics Retrieval practice Assessments</p> <p>Assessments Year 12 Assessment 2 Year 12 EOC Test/EOC HWK</p> <p>Blended learning for students that are self-isolating</p>	<ul style="list-style-type: none"> • Oxidation, reduction and redox reactions • Periodicity • Group 2 • Group 7 • Introduction to Organic Chemistry <p>Assessment objectives: AO1, AO2, AO3</p> <p>Enrichment/life and work skills:</p> <ul style="list-style-type: none"> • Revision skills • Empathy • Time management • Perseverance <p>SMSC Opportunities: Within the science curriculum ' working scientifically ' material is embedded into the curriculum which covers many moral and ethical issues that face scientists due to our technological advances.</p> <p>Extra Curricular opportunities and trips: TBC</p> <ul style="list-style-type: none"> • Science lectures • Explore King's 	<p>Summer: 14 weeks</p> <p>Literacy / numeracy foci Reading skills Comprehension skills Science glossary of terms Writing skills Arithmetic and numerical computation Handling data Algebra Graphs</p> <p>Homework End-of-Chapter Exam questions Presentations Research Project</p> <p>Revisiting, revising, remembering opportunities Exam question starters from previous topics Retrieval practice Assessments Assessments Year 12 PPE Year 12 EOC Test/EOC HWK Blended learning for students that are self-isolating</p>	<ul style="list-style-type: none"> • Alkanes • Halogenoalkanes • Alkenes • Alcohols • Organic analysis <p>Assessment objectives: AO1, AO2, AO3</p> <p>Enrichment/life and work skills:</p> <ul style="list-style-type: none"> • Group work/collaboration • Research skills. • Organisation skills. <p>SMSC Opportunities: Making links between organic, inorganic and physical chemistry, students will undertake an independent research project and produce a formal report.</p> <p>Extra Curricular opportunities and trips:</p> <ul style="list-style-type: none"> • Work experience • More information will be released in due course.



The progressive, inclusive curriculum 'skills, knowledge and concepts: literacy, life skills and enrichment'

CURRICULUM MAP – Advanced Chemistry

Term Autumn 12 weeks	Advanced Year 13 Chemistry	Term Spring 11 weeks	Advanced Year 13 Chemistry	Term Summer 14 weeks	Advanced Year 13 Chemistry
Autumn: 12 weeks Literacy / numeracy foci Reading skills Comprehension skills Science glossary of terms Writing skills Arithmetic and numerical computation Handling data Algebra Graphs Geometry and trigonometry Homework Transition Work – Summer Holidays End-of-Chapter Exam Questions Presentations Revisiting, revising, remembering opportunities Exam question starters Retrieval practice Assessments Assessments Year 13 Assessment Year 13 PPE 1 Year 13 EOC Test/EOC HWK	<ul style="list-style-type: none"> Thermodynamics Kinetics Equilibrium constant Electrode potentials and electrochemical cells Acids, bases and buffers Periodicity <p>Assessment objectives: AO1, AO2, AO3</p> <p>Enrichment/life and work skills:</p> <ul style="list-style-type: none"> Group work/collaboration Research skills Practical Skills (Time-Management and Organisation skills) Public speaking Empathy Cultural capital: Other cultures Blended learning for students that are self-isolating 	Spring: 10 weeks Literacy / numeracy foci Reading skills Comprehension skills Science glossary of terms Writing skills Arithmetic and numerical computation Handling data Algebra Graphs Homework End-of-Chapter Exam Questions Presentations Revisiting, revising, remembering opportunities Exam question starters from previous topics Retrieval practice Assessments Assessments Year 13 PPE 2 <ul style="list-style-type: none"> Year 13 EOC Test/EOC HWK 	<ul style="list-style-type: none"> The transition metals Reactions of inorganic compounds in aqueous solutions Nomenclature and isomerism Compounds containing the carbonyl group Aromatic chemistry Amines Polymerisation <p>Assessment objectives: AO1, AO2, AO3</p> <p>Enrichment/life and work skills:</p> <ul style="list-style-type: none"> Revision skills Empathy Time management Perseverance Practical Skills (Time-Management and Organisation skills) <p>Blended learning for students that are self-isolating.</p>	Summer: 14 weeks Literacy / numeracy foci Reading skills Comprehension skills Science glossary of terms Writing skills Arithmetic and numerical computation Handling data Algebra Graphs Homework End-of-Chapter Exam Questions Presentations Revision Revisiting, revising, remembering opportunities Exam question starters from previous topics Retrieval practice Assessments Assessments A –Level Examinations	<ul style="list-style-type: none"> Amino acids, proteins, and DNA Organic synthesis and analysis Structure determination Chromatography <p>Assessment objectives: AO1, AO2, AO3</p> <p>Enrichment/life and work skills:</p> <ul style="list-style-type: none"> Group work/collaboration Research skills Empathy Revision skills Exam Skills <p>Blended learning for students that are self-isolating</p>