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
Autumn: 12 weeksLiteracy / numeracy fociReading skillsComprehension skillsScience glossary of termsWriting skillsArithmetic and numericalcomputationHandling dataAlgebraGraphsGeometry and trigonometryHomeworkTransition Work – SummerHolidaysEnd-of-Chapter Exam questionsPresentationsRevisiting, revising,remembering opportunitiesExam question starters fromprevious topicsRetrieval practice	 Atomic Structure Amount of substance Bonding Energetics Kinetics Equilibria Assessment objectives: AO1, AO2, AO3 CPAC's for Required Practical's Enrichment/life and work skills: Group work/collaboration Research skills and scientific enquiry Public speaking Empathy 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 Extra -Curricular opportunities and trips: TBC Science lectures 	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 examination questions Presentations Revisiting, revising, remembering opportunities Exam question starters from previous topics Retrieval practice Assessments	 Oxidation, reduction and redox reactions Periodicity Group 2 Group 7 Introduction to Organic Chemistry Alkanes Halogenoalkanes Alkenes Alkenes Alkenes Alkenes Alkenes Alkenes Sessment objectives: AO1, AO2, AO3 CPAC's for Required Practical's Enrichment/life and work skills: Revision skills Empathy Time management Perseverance 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 	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 Research Project Revisiting, revising, remembering opportunities Exam question starters from previous topics Retrieval practice Assessments	 Alcohols Organic analysis Thermodynamics Acid and bases Assessment objectives: AO1, AO2, AO3 CPAC's for Required Practical's Enrichment/life and work skills: Group work/collaboration Research skills and scientific enquiry Organisation skills. SMSC Opportunities: Making links between organic, inorganic and physical chemistry, students will undertake an independent research project and produce a formal report. Extra- Curricular opportunities and
Assessments Assessments Year12 Transition Work Year 12 EOC Test/EOC HWK Tracking on Pupil progress Blended learning for students that are self-isolating	 Trouble with Science is Ethics Future scientists virtual Science Club Future Learn resource sharing on Science Club Sixth Form Open evening 	Assessments Year 12 Assessment 2 Year 12 EOC Test/EOC HWK Tracking on Pupil progress Blended learning for students that are self- isolating	advances. <u>Extra -Curricular opportunities and trips</u> : TBC • Science lectures • Explore King's • Future scientists virtual Science Club • Future Learn resource sharing on Science Club	Assessments Assessments Year 12 PPE Year 12 EOC Test/EOC HWK Tracking on Pupil progress Blended learning for students that are self- isolating	 trips: Work experience Future scientists virtual Science Club Future Learn resource sharing on Science Club UCAS applications -Introduction

Science week activities and accomplies

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

CURRICULUM MAP – Advanced Chemistry

Internet/life and work skills:Iteracy / numeracy fod Reading skillsReactions of inorganic computationIteracy / numeracy fod Reading skillsComprehension skillsComprehension skillsElectrode potentials and electrochemical cellsComprehension skills Science glosary of termsNomenclature and isomerism solutionsIteracy / numeracy fod Reading skills Comprehension skills-ChromatographyWriting skills-Acids, bases and buffers Arithmetic and numerical computation-Comprehension skills Solutions-Assessment objectives: AO1, AO2 AO3Arithmetic and numerical computation-Arithmetic and numerical computation-Assessment objectives: AO1, AO2 AO3AO3 CPAC's for Required Practical's Graphs-Amonatic chemistry Handling data Algebra-Amonatic chemistry Amonatic chemistry-Anomerical computationHonework End-of-Chapter Exam Questions-Frichment/life and work skills: End-of-Chapter Exam Questions-Actives: AO1, AO2, AO3-Reading skills Computation-Arithmetical computationRevisiting, revising, remembering ormembering remembering opportunities-Frichment/life and work skills: remembering opportunities-Ao3CPAC's for Required Practical's End-of-Chapter Exam Questions-Ao3CPAC's for Required Practical's End-of-Chapter Exam Questions-Ao3Enrichment/life and work skills: CPAC's for Required Practical's Enrichment/life and work skills: remembering opportunities-Nomework	Term Autumn 12 weeks	Advanced Year 13 Chemistry	Term Spring 11 weeks	Advanced Year 13 Chemistry	Term Summer 14 weeks	Advanced Year 13 Chemistry
Year 13 Assessment • Blended learning for students that • Year 13 EOC Test/EOC skills) A -Level Examinations are self-isolating Year 13 EOC Test/EOC HWK • Tracking on Pupil progress • Tracking on Pupil progress • Future scientists virtual Science • Future scientist	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 Year 13 Assessment Year 13 PPE 1 Year 13 EOC Test/EOC HWK	 Kinetics Equilibrium constant Electrode potentials and electrochemical cells Acids, bases and buffers Transition metals Assessment objectives: AO1, AO2, AO3 CPAC's for Required Practical's Enrichment/life and work skills: Group work/collaboration Research skills and scientific enquiry Practical Skills (Time-Management and Organisation skills) Public speaking Empathy Cultural capital: Other cultures Future scientists virtual Science Club Future Learn resource sharing on Science Club UCAS applications Blended learning for students that 	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 Year 13 PPE 2 • Year 13 EOC Test/EOC HWK • Tracking on Pupil	 Reactions of inorganic compounds in aqueous solutions Nomenclature and isomerism Compounds containing the carbonyl group Aromatic chemistry Amines Polymerisation Structure determination Amino acids, proteins, and DNA Assessment objectives: AO1, AO2, AO3 CPAC's for Required Practical's Enrichment/life and work skills: Revision skills Empathy Time management Perseverance Practical Skills (Time- Management and Organisation skills) Future scientists virtual Science 	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	Assessment objectives: AO1, AO2, AO3 CPAC's for Required Practical's Enrichment/life and work skills: Group work/collaboration Research skills and scientific enquiry Empathy Revision skills Exam Skills Future scientists virtual Science Club Future Learn resource sharing on Science Club Blended learning for students that

Blended learning for students that