Plan Of Learning For The Year (Unit/Topic/Project Context)

Half Term 1

- Aromatics
- Amines
- Isomerism, carbonyls and acids

Half Term 2

- Amino acids, DNA and Polymers
- Chromatography
- Organic synthesis
- Rates
- Nuclear magnetic resonance spectroscopy
- Transition Metals
- Transition metals and ions in solution

Half Term 3

- Thermodynamics
- Properties of period 3 elements and their oxides
- Equilibrium constant for homogeneous systems

Half Term 4

- Acids and Bases
- Electrochemical cells

Half Term 5

• Revision

Half Term 6

• Exam

Feedback, Retrieval & Assessment	Super curriculum opportunities / extra-curricular activities	Cultural Capital, SMSC, Careers and Futures
 Regular self and peer assessment Regularly assessed homework Termly Teacher Assessment Termly Formal Assessment (FA) Learning logs used to guide feedback and develop students' mindset 	 Visits to local university Visits to local Mine to evaluate salt formation 	 Application of Chemistry in real life contexts embedded throughout the course Development of skills to meet the practical endorsement to allow students to progress to onto practical based degrees Careers session run with the university

Common misconceptions	Connecting New Knowledge	Challenge for all
 That the reaction is finished, it is stable, it will not react anymore unless you add something That K increases when equilibrium is re-established after changing concentration of a reactant If the benzene ring is stable, why do arenes still undergo reactions such as halogenation and nitration? 	 Linking GCSE knowledge to new A Level ideas to build upon prior knowledge Notes provided to students on content Spaced retrieval homework that covers a wide selection of knowledge to develop deeper understanding of content 	 Support is given in lesson for those students who have not taken A Level Mathematics Modelling in lessons is key to showing students the steps involved in each process Students are encouraged to question everything to build a deep understanding of the knowledge