

**Plan Of Learning For The Year (Unit/Topic/Project Context)**
**Half Term 1**

- Atomic Structure
- Amount of substance

**Half Term 2**

- Redox equations
- Halogens
- Amount of substance

**Half Term 3**

- Energetics
- Equilibria
- Group 2 , the alkali earth metals
- Periodicity

**Half Term 4**

- Kinetics
- Bonding

**Half Term 5**

- Introduction to Organics
- Bonding
- Alkanes
- Halo Alkanes

**Half Term 6**

- Alcohols
- Analysis
- Alkenes

**Feedback, Retrieval & Assessment**

- 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

**Super curriculum opportunities / extra-curricular activities**

- Visits to local university
- Visits to local Mine to evaluate salt formation

**Cultural Capital, SMSC, Careers and Futures**

- 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**

- Neutralisation is the breakdown of an acid or something changing from an acid;
- Just how big Avogadro's number is
- All molecules that contain the C=O group should undergo nucleophilic addition reactions, as it is unsaturated

**Connecting New Knowledge**

- 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

**Challenge for all**

- 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