KS5 Curriculum: A Level Chemistry 2024-2025

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|  | Year 12 | Year 13 |
| Cycle 1 | * **3.1.1 Atomic Structure**
* **3.1.2 Amount of Substance**
* **3.1.3 Bonding**
* **3.2.1 Periodicity**
* **3.2.2 Group 2**
* **3.3.2 Alkanes**
* **3.3.3 Halogenoalkanes**
* **3.3.4 Alkenes**

**Required practical 1**Assessments:**Mid-Cycle 1:** Assessing Topics 3.1.1, 3.1.2, 3.1.3 and 3.3.2**End of Cycle:** Assessing Topics 3.2.1, 3.2.2, 3.3.3 and 3.3.4  | * **3.1.9 Rate equations**
* **3.1.10 Kp**
* **3.3.7 Optical isomerism (Carbonyl chemistry)**
* **3.3.8 Aldehydes and Ketones**
* **3.3.9 Carboxylic acids and derivatives**
* **3.3.10 Aromatic Chemistry**
* **3.3.11 Amines**
* **3.3.12 Polymers**
* **3.3.13 Amino acids**
* **3.3.14 Organic synthesis**
* **3.3.15 NMR**

**Required practicals 7 & 10 Required practica**Assessments:**Mid-Cycle 1:** Assessing Topics 3.3.7, 3.3.8, 3.3.9, 3.3.11, 3.3.12**End of Cycle:** Mock exam paper  |
| Cycle 2 | * **3.1.4 Energetics**
* **3.1.5 Kinetics**
* **3.1.6 Equilibria**
* **3.1.7 Redox**
* **3.2.3 Group 7**
* **3.3.5 Alcohols**
* **3.3.6 Organic analysis**

**Required practical 2, 3, 4, 5 & 6**Assessments: **Mid-Cycle:** Assessing Topics 3.1.4, 3.1.5, 3.3.5, 3.2.3 **End of Cycle:** Assessing Topics 3.1.6, 3.1.7, 3.3.6 | * **3.1.12 Acids and bases**
* **3.2.5 Transition metals**
* **3.2.6 Reaction of ions in aqueous solution**
* **3.1.11 Electrode potentials**
* **3.3.16 Chromatography**
* **3.1.8 Thermodynamics**
* **3.2.4 Period 3 Oxides**

**Required practicals 8, 9, 11 & 12**Assessments: **Mid-Cycle:** Assessing Topics 3.1.12, 3.2.5, 3.2.**End of Cycle:** Mock exam papers |
| Cycle 3 | **Revision for End of Year exams and review prior to starting year 13 topics**Assessments:**End-Cycle-** End of year exams – Mock AS Papers 1 and 2 | Revision/ Exams  |