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 |