

Curriculum Plan

Department/subject: Chemistry Year 12

Our Vision: **We take opportunities and aspire to excellence**

Our Intent:

- All students will experience a curriculum richness, breadth and depth
- The curriculum equips every student with the knowledge and skills for the future in our local area and beyond
- The curriculum builds on prior knowledge and creates a 'web of knowledge'
- Gaps in knowledge and skills are identified and addressed quickly

Year	Spring 1	Spring 2
Knowledge to be taught	3.1.1 Periodicity 3.1.2 Group 2 3.1.3 Group 7 3.1.4 Qualitative Analysis 3.2.1 Enthalpy Changes 3.2.2 Rates	3.1.3 Group 7 4.1.1 Basic Concepts of Organic Chemistry 3.2.2 Rates 3.2.3 Chemical Equilibrium
Keywords	Ionisation Energy Electrostatic Attraction Exothermic Endothermic Activation Enthalpy Boltzmann Distribution Observation Precipitate Bond Enthalpy Atomic Radius	Organic Isomer Nomenclature Le Chatelier's Principle Equilibrium Hydrocarbon Halogen Halide Reversible Reaction Rate
Links to prior knowledge	Unit 1 – GCSE Chemistry – Foundations in Chemistry Unit 2 – GCSE Chemistry – Bonding Structure and Properties Unit 3 – GCSE Chemistry – Quantitative Chemistry Unit 4 – GCSE Chemistry – Chemical Changes Unit 5 – GCSE Chemistry – Energy Changes Unit 6 – GCSE Chemistry – Rates of Reaction and Equilibrium Unit 8 – GCSE Chemistry - Analysis	Unit 1 – GCSE Chemistry – Foundations in Chemistry Unit 2 – GCSE Chemistry – Bonding Structure and Properties Unit 3 – GCSE Chemistry – Quantitative Chemistry Unit 4 – GCSE Chemistry – Chemical Changes Unit 5 – GCSE Chemistry – Energy Changes Unit 6 – GCSE Chemistry – Rates of Reaction and Equilibrium Unit 7 – GCSE Chemistry - Organic Chemistry



How knowledge is assessed	Weekly Home Learning In class exam questions End of Topic Assessments	Weekly Home Learning In class exam questions End of Topic Assessments
How gaps will be addressed	Weekly Home Learning In class exam questions End of Topic Assessment Class Discussion Independent Study Plans Completion of in class activities Kerboodle	Weekly Home Learning In class exam questions End of Topic Assessments Class Discussion Independent Study Plans Completion of in class activities Kerboodle
Cultural capital lessons		