

KS5 Curriculum Overview 2023/24

Department: Chemistry

Description of KS5 Curriculum:

The KS5 curriculum builds on the skills, knowledge and understanding set out in the KS4 chemistry curriculum. Students develop essential knowledge and understanding within different areas of the subject including scientific methods. Students develop competence and confidence in a variety of practical, mathematical and problem-solving skills. The curriculum is designed to allow students to understand how society makes decisions about scientific issues and how science contributes to the success of the economy and society.

Sequence of Teaching:

KS5	Term 1 Content	Term 2 Content	Term 3 Content
Year 12	Atomic structure Amount of substance Energetics Equilibria Redox Periodicity	Kinetics Group 7 Alkanes Haloalkanes Introduction to organic chemistry Group 2 Alkenes	Organic analysis Alcohols Properties of period 3 oxides
Year 13	Transition metals Electrode potentials Aqueous ions in solution Thermodynamics Rate equations	Aldehydes and ketones Carboxylic acid derivatives Aromatic chemistry Amines, Amino acids and proteins Organic synthesis Acids and bases Polymers	Proton NMR Revision