

KS4 Curriculum Overview (GCSE CHEMISTRY)

YEAR 11

Year 2 GCSE/BTEC Option Subjects

TERM 1 TOPIC/s	*Key Skills/Subject Links	*Career links & BV
Rates, equilibrium, and organic chemistry: C10 Organic reactions (continued) C11 Polymers	<p>Recognise the general formula of alkanes and alkenes.</p> <p>Drawing displayed structural formulae, e.g., of alkenes, alkanes, alcohols, carboxylic acids and esters.</p> <p>Writing balanced equations for the combustion of alcohols.</p> <p>Drawing diagrams to represent the formation of polymers.</p> <p>How to relate the repeating unit of a polymer to its monomer.</p> <p>Physics link – tensile strength.</p> <p>Biology link - DNA</p>	<p>Career links Perfumier, polymer engineer.</p> <p>British values Rule of Law: Opportunity to discuss the regulations concerning polymer manufacture and the environmental impact of manufacture and use. Mutual respect and tolerance: The opportunity to debate the importance of polymers to society.</p>
TERM 2 TOPIC/s	*Key Skills/Subject Links	*Career links & BV
Chemistry Analysis and the Earth's resources: C12 Chemical analysis C15 Using our resources.	<p>Analysis of chromatograms and calculation of R_f values.</p> <p>Testing for gases (hydrogen, oxygen and chlorine).</p>	<p>Career links Formulation chemist, forensic scientist.</p> <p>British Values Individual Liberty: There are opportunities for students to work independently and make choices in a safe environment when carrying out investigations.</p>

TERM 3 TOPIC/s	*Key Skills/Subject Links	*Career links & BV
Chemistry Analysis and the Earth's resources: C12 Chemical analysis (continued) C15 Using our resources (continued)	Refer to TERM 2 TOPICS above.	Refer to TERM 2 TOPICS above.
TERM 4 TOPIC/s	*Key Skills/Subject Links	*Career links & BV
Chemistry Revision programme: Paper 1 and Paper 2	N/A	N/A
TERM 5 TOPIC/s	*Key Skills/Subject Links	*Career links & BV
GCSE Course completed: bespoke revision timetable.	N/A	N/A
TERM 6 TOPIC/s	*Key Skills/Subject Links	*Career links & BV
GCSE Course completed: bespoke revision timetable.	N/A	N/A

