The Fisher Way: Curriculum

The Fisher Way aims to educate and inspire with joy, faith an
love because we are an inclusive Catholic community.

Successful and resilient learners who aspire to and achieve excellence

Confident individuals who can explore and communicate effectively

Responsible citizens who are active, loving and wise in all their endeavours

Subject	Chemistry
Year Group	Year 11
Intent	Successful and resilient learners: who understand chemical concepts, apply them to unfamiliar situations and develop confidence through practical enquiry. Confident individuals: who approach problems and practical work with curiosity, communicate explanations clearly and evaluate evidence. Responsible citizens: who understand the local and global implications of chemistry, including its contribution to health, industry and the sustainable use of resources.

Narrative	Learners study organic chemistry, then the use of resources and chemical analysis. They revisit fundamental ideas about particles, bonding, energy and reactions while applying them to fuels, water, materials and identification of substances. This builds on the Year 10 sequence of chemical changes, calculations, rates and atmospheric chemistry. Separate Science learners study the additional organic reactions, materials, industrial processes and analytical methods required for their qualification. Mock feedback and targeted revision bring together both GCSE papers. Learners strengthen their practical reasoning, calculations and explanations, preparing for further study and informed decisions about resource use.					
Half term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Knowledge (topics studied)	Organic chemistry: crude oil, alkanes, fractional distillation, combustion and cracking.	Organic chemistry consolidation; additional organic reactions and polymers (Separate Science); mock feedback.	Using resources: life cycles, recycling, metal extraction, potable water and wastewater treatment.	Chemical analysis: purity, formulations, chromatography and gas tests; ion tests and spectroscopy (Separate Science).	Targeted revision of both GCSE papers, required practicals, calculations and extended responses.	GCSE examination preparation and examinations; final review of identified gaps.
Key skills	Interpret distillation diagrams; relate hydrocarbon properties to uses; write and interpret equations.	Compare reaction pathways; use structural formulae; evaluate material choices and improve mock responses.	Evaluate life-cycle evidence; investigate water purification; assess the limitations of competing processes.	Plan an analysis; interpret chromatograms; identify unknowns from test results; evaluate reliability.	Combine calculations and explanations; analyse practical methods and unfamiliar data.	Manage time; check formulae, units and working; use command words precisely.

Half term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Cultural capital and careers	Petrochemical and energy industries; the environmental consequences of fuel use.	Organic synthesis and polymer science; products used in medicine and everyday life.	Water engineers and recycling industries; sustainable use of finite resources.	Forensic and analytical laboratories; testing product safety and purity.	Routes into chemistry, healthcare, engineering and vocational science.	Further study and apprenticeships; transferable numerical and evidence-evaluation skills.
Assessment	Topic checks; exam and practical questions.	Mock assessment, question-level analysis and recovery.	Topic assessment; targeted checks of identified gaps.	Mock or cumulative exam practice; feedback and recovery.	GCSE preparation and examinations, following the exam timetable.	GCSE examinations and final targeted support.