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 7
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 begin with scientific skills and the particle model, then study acids, alkalis, indicators and neutralisation alongside rock types and the rock cycle. They finish with physical and chemical changes, equations, energy changes, combustion and thermal decomposition. The sequence builds on primary work on materials and changes of state. Particle diagrams and observations help learners explain what happens, while practical work develops safe handling, measurement and the recording of evidence. This prepares learners for metals and their reactions, environmental chemistry and the periodic table in Year 8, followed by more detailed atomic structure, analysis and bonding in Year 9.					
Half term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Knowledge (topics studied)	Scientific skills and particles: solids, liquids, gases and their properties.	Particle models, changes of state and separating mixtures.	Acids, alkalis, pH, indicators and neutralisation.	Rock types, formation, rock cycle and porosity.	Physical and chemical changes; word equations; energy changes and combustion.	Fireworks and thermal decomposition; practical investigations and consolidation.
Key skills	Use equipment safely; measure accurately; represent particle arrangement and movement.	Explain changes using models; select separation methods; record practical observations.	Use indicators; compare pH; investigate neutralisation safely and identify variables.	Classify rock samples; model processes; investigate porosity and compare data.	Recognise evidence of reaction; write word equations; measure temperature changes.	Plan and evaluate an investigation; identify hazards; present results and conclusions.

Half term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Cultural capital and careers	Laboratory technicians and materials testing; why safe working matters.	Water treatment and forensic science; separation in everyday life.	Food testing, antacids and environmental monitoring; applied chemistry.	Geology, palaeontology and construction; how rocks affect local landscapes.	Fuel use and energy; chemical manufacturing and fire safety.	Pyrotechnics and industrial chemistry; the importance of responsible practical work.
Assessment	Retrieval and short topic checks; practical feedback.	Cumulative assessment and recovery.	Short topic checks; practical and data questions.	Cumulative assessment and recovery.	Topic checks and targeted revision.	End-of-year assessment; feedback and recovery.