The Fisher Way: Curriculum

The Fisher Way aims to educate and inspire with joy, faith and 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 a wide range of chemical concepts and can actively adapt to new situations **Confident individuals**: who can approach problems and practical situations in a curious and discerning way **Responsible citizens**: who can eloquently express the implications of chemistry on local, national and global issues, especially environmental ones.

Narrative	*How are they going to be different when they finish the year?* Year 11 continues the spiral approach to science. Year 11 takes all the units covered in years 7 to 10 and forges stronger links between them showing how the overall picture, skills, practicals and concepts fit together. *How does this link to what they have done before?* Year 11 particularly requires a solid understanding of the Atom Structure, Periodic Table and the Bonding units from years 9 and 10. To be able to tackle the equations and understand the earth and the challenges it faces the units C7 and C8 from year 9 and the C10 and C11 units from year 10 are important steppingstones. *How does this set them up for the years to come?* Year 11 completes the GCSE standard for chemistry. It is the point where learners who do not pursue further chemistry / science education further should have a clear understanding of the basic concepts of chemistry / science and will be able to make important life decisions using the science knowledge and skills they have practiced in chemistry. The GCSE course also fully prepares learners for the study of A Level chemistry. GCSE chemistry also opens the door to many other studies of chemistry including BTECs, apprenticeships and traineeships.

Half term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Knowledge (topics studied)	C12 Reversible Reactions	C12 Electrolysis	C13 Water and lifecycle	C14 separate only topics.	Revision	Revision

Key skills	Application of knowledge	Practical Skills and interpretation of experimental data	Understanding of pH scale with respect to water	Application of knowledge		
Cultural capital	Nature of reversible chemical reactions, the science of compromise	Importance of industrial processes such as electrolysis to modern life	Difficulty with water treatment and global water challenges Environmental impact of products from conception to end of life	Development of Fuel Cells, vast array of organic chemicals present and their functionality		
Assessment	C12 End of Unit Test		C13 End of Unit Test	C14 End of Unit Test		