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	BTEC Applied Science
Year Group	Year 12
Intent	**Successful and resilient learners:** who understand the roles available to them as scientists moving in to the future and who understand the importance of working to and meeting deadlines. **Confident individuals:** who are able to undertake practical work safely and reflect on their impact as a scientist. **Responsible citizens:** who are able to apply their skills as scientists to problems and challenges they face in the wider world.
Narrative	

	All learners will have experience through a range of assessment types and styles suited to vocational courses. The 3 main types of assessment external, internal and synoptic give learners a broad range of skills to take out into the workplace or undergraduate level. Units 1 and unit 3 link to year 7, 9, 10 and 11 biology for example cells in year 7 is revisited in year 9, digestion and the nervous system in year 9 and 10 respectively and in unit 1 and unit 8 of year 12 and 13. Titration experiment skills are performed in year 11 so a foundation created for unit 2 titration assignment. Radiation in year 11 is also built on in unit 1 content as does year 8 and 10 chemistry atoms, compounds etc.. This builds on work previously done and introduces more detail and depth of knowledge as prior knowledge can be revisited. Assignments develop a knowledge of working environments with scenarios presented so connects to the careers programme in year 10 and post 16 advice given at KS5.					
Half term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Knowledge (topics studied)	Unit 1 Principles and Applications of Science	Unit 1 Principles and Applications of Science	Unit 2 Practical Scientific Procedures and Techniques	Unit 2 Practical Scientific Procedures and Techniques	Unit 2 Practical Scientific Procedures and Techniques	Unit 3 Science Investigation Skills
Key skills	Titration practical skills, chromatography, safety, data analysis, graph skills including calibration	Practical skills and risk assessments / safety, data analysis, application of knowledge, research, evaluation, IT skills, report writing, tables (recording data)	Practical skills and risk assessments / safety, data analysis, application of knowledge, research, evaluation, IT skills, report writing, tables (recording data)	Practical skills and risk assessments / safety, data analysis, application of knowledge, research, evaluation, IT skills, report writing, tables (recording data)	Practical skills and risk assessments / safety, data analysis, application of knowledge, research, evaluation, IT skills, report writing, tables (recording data)	Practical skills, safety, data analysis, graph and IT skills, APPLICATION OF KNOWLEDGE, scientific report writing
Cultural capital and careers	Workplace health and safety. Practical skills that lead onto discussions about careers as	Mental health and chemicals in brain antibiotic resistance & pharmaceutical science. Careers discussion	Discussion around the use of chromatography in forensics and food industry.	Discussion around the use of chromatography in forensics and food industry.	Discussion around the use of chromatography in forensics and food industry.	Discussion surrounding careers as a science technician, their role and scientific

	analytical scientists and calibration engineers.	surrounding medical professions including pharmacy technicians.				reporting for workplace environments.
Assessment	End of unit tests. External Exam	End of unit tests. External Exam	Internally marked coursework	Internally marked coursework	Internally marked coursework	Internally marked coursework. End of unit exam – Unit 3