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	Physics
Year Group	Year 8
Intent	Successful and resilient learners: who use physics knowledge and scientific skills to investigate and solve problems in the physical world. Confident individuals: who use models, mathematics and evidence to explain physical processes and communicate their reasoning clearly. Responsible citizens: who evaluate the benefits, risks and environmental implications of technologies and make informed decisions about energy and resources.

Narrative	Learners study static electricity and circuits, then thermal energy transfer, insulation, states of matter and pressure. Sound follows, connecting wave properties to hearing and technologies such as microphones, speakers and ultrasound. Earth and space study develops understanding of gravity, seasons and the Solar System. The sequence builds on Year 7 forces, energy and light. Learners use models and practical measurements to compare systems and explain how energy is transferred. These ideas prepare learners for Year 9 energy and particle-model work and later GCSE electricity and waves. Practical work develops control of variables, accurate measurement and evidence-based conclusions.					
Half term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Knowledge (topics studied)	Electricity: static charge, conductors, insulators and building circuits.	Current and potential difference in series and parallel circuits; measuring electrical quantities.	Matter: conduction, convection, radiation, insulation, states and pressure; Earth and space consolidation.	Sound waves: pitch, loudness, echoes, reflection, absorption and soundproofing.	Speed of sound, hearing ranges, microphones, speakers and ultrasound.	Investigations and consolidation of electricity, matter and sound.
Key skills	Draw circuit diagrams; build safe circuits; use models of charge and conduction.	Measure current and voltage; compare circuits; identify patterns and explain results.	Investigate insulation; apply particle models; calculate pressure; use models of seasons and orbits.	Relate wave features to sound; investigate absorption; control variables and evaluate methods.	Calculate speed; interpret hearing-range data; explain applications of sound technology.	Plan a fair investigation; repeat measurements; graph results; identify limitations and improvements.

Half term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Cultural capital and careers	Electrical engineering and safe use of electrical devices.	Electricians and electronics; how measurements guide fault finding.	Energy-efficient homes and building design; astronomy and our place in the Solar System.	Acoustic engineering, music and hearing protection.	Audiology, medical imaging and audio technology.	Research and technical careers; communicating evidence and working collaboratively.
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.