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 7
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 begin with forces, motion and magnetism, then study energy stores, transfers and resources. Light follows, introducing wave properties, reflection, refraction, lenses and colour. Scientific skills are taught through practical work across the sequence. This builds on primary learning about forces, light and electricity. Learners develop accurate measurement, simple calculations, graph interpretation and the use of diagrams and models to explain observations. The sequence prepares learners for electricity, thermal processes and sound in Year 8, then more detailed energy and particle-model work in Year 9.					
Half term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Knowledge (topics studied)	Scientific skills; contact and non-contact forces, mass, weight, friction and air resistance.	Balanced and unbalanced forces; speed and motion graphs; magnetism and turning forces.	Energy stores and transfer pathways; energy changes in lifting and falling.	Energy resources, energy from food, work done and power.	Light and wave properties; transparent, translucent and opaque materials; reflection.	Refraction, lenses, cameras, the eye and colour; investigations and consolidation.
Key skills	Measure forces safely; identify variables; distinguish mass and weight; explain effects of forces.	Calculate speed; draw and interpret motion graphs; investigate magnets and turning effects.	Represent energy changes using models; identify useful and unwanted transfers.	Use simple equations and units; compare energy resources; interpret practical data.	Draw ray diagrams; measure angles; investigate reflection and record observations accurately.	Investigate refraction; use models of lenses; interpret colour observations and evaluate methods.

Half term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Cultural capital and careers	Engineering and road safety; the role of forces in everyday movement.	Vehicle design, aerodynamics and mechanical engineering.	Energy use in transport and buildings; product design.	Energy generation and environmental decisions; engineering and nutrition links.	Lighting design and theatre; practical applications of reflection.	Optometry, photography and optical engineering; explaining how we see.
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.