Science Faculty: Physics Learning Journey

YEAR 13

Go to university to enhance your studies and get a degree

Start a degree level apprenticeship

Take a gap year, travel the w orld and embrace new cultures

Consider summer internship and voluntary w ork to enhance your learning

Nuclear Physics

Fields

Further Mechanics

Astrophysics

Thermal Physics

YEAR 12

Quarks and Leptons

Waves

Mechanics

Electric Current

Matter and Radiation

Quantum Phenomena

Optics

Materials

DC Circuits

YEAR 11

Revision, practical skills and exam preparation

Space physics - Separate Science

Magnetism and electromagnetism

Wave properties and wave speed

Motors and electromagnetic applications

Electromagnetic waves and their uses

Forces and motion: consolidation

YEAR 10

Resistance and current-potential difference graphs

Atomic structure and radioactivity

Forces, vectors and resultant forces

Motion graphs, Newton's laws and momentum

Electric circuits, current and charge

Domestic electricity and the National Grid

Half-life and radiation safety

Elasticity and Hooke's law

YEAR 9

Internal energy and changes of state

National and global energy resources

Work, power and energy calculations

Energy stores, transfers and conservation

Specific heat capacity and gas pressure

Particle model and density

Efficiency and reducing energy transfers

YEAR 8

Static electricity and electric circuits

Thermal energy transfer and insulation

Sound waves and their properties

Current and potential difference

States of matter and pressure

Hearing, ultrasound and sound technology

YEAR 7

Lenses, vision and colour

Energy resources, work and power

Forces, motion and magnetism

Light waves, reflection and refraction

Energy stores and transfers

The Fisher Way aims to educate and inspire with joy, faith and love because we are an inclusive Catholic community.

Successful and Resilient Learners, Confident Individuals and Responsible Citizens