

# KS5 Curriculum Overview 2023/24

## Department: Physics

### Description of KS5 Curriculum:

A level Physics gives you the opportunity to explore the phenomena of the universe and to look at theories that explain what is observed. This subject combines practical skills with theoretical ideas to develop descriptions of the physical universe. You will learn about everything from kinematics to cosmology and many recent developments in fascinating topics, such as particle physics. If you are interested in the limits of space, the beginning of time and everything in between this is the subject for you. Physics is more than a subject – it trains your brain to think beyond boundaries.

AQA A Level Physics covers: Particles and Quantum Phenomena, Waves and Optics, Forces, Newton's Laws of Motion, Momentum, Work, Energy and Materials, Electricity and DC Circuits, Circular Motion, Simple Harmonic Motion, Thermal Physics and Gases, Gravitational Fields, Electric Fields, Capacitors, Magnetic Fields and Electromagnetic Induction, Radioactivity and Nuclear Energy. AQA also includes an option topic: 1 from Astrophysics, Medical Physics, Engineering Physics, Turning Points in Physics and Electronics.

### Sequence of Teaching:

KS5	Term 1 Content	Term 2 Content	Term 3 Content
<b>Year 12</b>	Measurement & Errors Particles & Radiation Electricity	Waves Mechanics	Materials Further Mechanics
<b>Year 13</b>	Thermal Physics Fields & Their Consequences	Nuclear Physics Astrophysics	Revision