

Long Term Curriculum Plan: Physics

At Bournemouth School, the science curriculum aims to inspire a future generation of scientists, igniting curiosity and wonder in students and developing their understanding of the world around them. Practical activities are used regularly to support theoretical application of knowledge and to develop research and analytical skills. High quality teaching provides purposeful, stimulating lessons, providing a rich depth of knowledge, enabling students to become critical thinkers and contribute to shaping a better world.

Our aim in Physics is to develop well-rounded Physicists who can explain complex ideas and are confident using mathematical skills to solve intricate problems. We develop students’ ability to apply these ideas to investigate the world around them, both theoretically and practically. Throughout the curriculum, students are provided with opportunities to develop practical and investigative skills. Our curriculum aims to challenge all students and facilitates further studies or potential careers in the subject.

“About 13.5 billion years ago, matter, energy, time and space came into being in what is known as the Big Bang. The story of these fundamental features of our universe is called Physics.”
Yuval Noah Harari

KS4 roadmap	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 9	P1a Energy P1b Energy	P1b Energy	P3 Particle model of matter	P3 Particle model of matter P5a Forces	P5a Forces	Revision and end of year assessment P8 Space
Year 10	P2 Electricity	P2 Electricity	P6 Waves	P6 Waves	Mock exam P5b Forces	P5b Forces
Year 11	P7 Magnetism and Electromagnetism	P7 Magnetism and Electromagnetism Mock exam Paper 2	P4 Atomic structure	Mock exam paper 1 Revision	Revision	

Long Term Curriculum Plan: Physics

Sixth form roadmap	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
YEAR 12 (Edexcel)	Induction Introduction test Electricity	Electricity Test	Materials Test	Materials Further mechanics	Further mechanics Revision Year 12 Exam	Thermodynamics Test
	Induction Introduction test Mechanics	Mechanics Test	Mechanics Waves and the particle nature of light Test	Waves and the particle nature of light	Waves and the particle nature of light Revision Year 12 Exam	Waves and the particle nature of light Test
YEAR 13	Thermodynamics (part 2) Nuclear Physics Test	Nuclear physics Nuclear radiation Test	Nuclear Radiation Test	Oscillations Revision	Review Formal Assessment 2 Revision	

Long Term Curriculum Plan: Physics

(Edexcel)	Electric and magnetic fields Test	Electric and magnetic fields Gravitational fields Test	Space Test	Oscillations Test	Review Formal Assessment 2 Revision	
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