



KS4 Curriculum Overview - Physics

Your child will learn about the physical properties of the world and beyond, develop their knowledge, skills and understanding of the scientific method during each half term.

Term	Year 10	Year 11
Autumn 1	<ul style="list-style-type: none"> Particle Model of Matter - states of matter (covered at end of year 9) Atomic Structure - radioactivity and the history of the atom. Electricity - building circuits and calculating features of a circuit. 	<ul style="list-style-type: none"> Waves - application of waves in the real world.
Autumn 2	<ul style="list-style-type: none"> Electricity - electricity in the home. Energy - stores and transfers of energy 	<ul style="list-style-type: none"> Magnets and Electromagnetism - how we use magnets and how to create electromagnets.
Spring 1	<ul style="list-style-type: none"> Forces - speed, distance and acceleration 	<ul style="list-style-type: none"> Space Physics - life cycle of a star and the Big Bang Theory
Spring 2	<ul style="list-style-type: none"> Forces - graphs of motion and Newton's Laws 	<ul style="list-style-type: none"> Exam skills Revision
Summer 1	<ul style="list-style-type: none"> Forces - Momentum, levers and pressure. 	<ul style="list-style-type: none"> Exam skills Revision
Summer 2	<ul style="list-style-type: none"> Waves - properties of waves and electromagnetic spectrum 	GCSE Public Examinations

Through the study of Physics your child will be expected to develop the following knowledge, skills and understanding:

Concept / Skill	Concept / Skill
<ul style="list-style-type: none"> Scientific investigation Analysis of information Practical skills using specialist physics equipment 	<ul style="list-style-type: none"> Graphical interpretation Algebra and Numerical manipulation

Parents can support their child by checking [Google Classroom](#), testing pupils on key knowledge from [Cognito Youtube videos](#), [BBC bitesize](#), and create a parent account on [Seneca](#) to track student progress through mini tests and quizzes.