

National curriculum or specification coverage

P10 Forces

- 10.1 - Force and Acceleration + Required Practical
- P10.2 - Weight and Terminal Velocity
- P10.3 - Forces and Breaking
- P10.4 - Momentum (HT only)
- P10.5 - Forces and elasticity + Required Practical

P12 – Wave Properties

- P12.1- Nature of Waves
- P12.2 – Properties of Waves
- P12.3 – Reflection & Refraction
- P12.4 – More about waves
- P12.4 – Required Practical
- P12.5 – Sound waves
- P12.6 – Uses of Ultrasound
- P12.7 – Seismic waves

P13 – Electromagnetic Spectrum

- P13.1 – The Electromagnetic Spectrum
- P13.2 – Light, IR, Microwaves & Radio waves
- P13.3 – Communication
- P13.4 – UV, X-ray & Gamma Ray

P15 – Electromagnetism

- P15.1 – Magnetic fields
- P15.2 – Magnetic fields of electric current
- P15.3 – Electromagnets in devices
- P15.4 – The motor effect (HT)
- P15.5 – The generator effect (HT)
- P15.6 – The alternating current generator (HT)
- P15.7 – Transformers (HT)
- P15.8 – Transformers in action (HT)

Year 11 Long Term Scheme of Learning 2026-2027

Subject: Physics – Combined Science

Date	Exams/ Assessments	Learning Intentions	Core Task / Assessments	
31/08/26		P7 & P9 Recap – Forces and Motion	Assessment 1 (PPE 1) – Paper 1 Exam (P1 – 7)	
07/09/26		P10 Forces - Investigate the relationship between force and acceleration. - Apply the equation $W=mg$ to calculate weight with varying values for g. - State the conditions required for terminal velocity. - Apply knowledge of factors which can affect terminal velocity - Describe a situation where an object may reach terminal velocity. - Know how to calculate stopping distance, with examples of key distances. - Know why we have key safety features on vehicles and how they help to reduce impact. - Calculate the speed and forces required when braking - Calculate momentum using $p=mv$ (HT only) - Investigate the relationship between force and elasticity and plot a graph.		
14/09/26				
21/09/26				
28/09/26				
05/10/26				
12/10/26	Y11			Paper 1 Assessment
19/10/26	Y11			
26/10/26	HALF TERM			
02/11/26			P12 – Core Task	
09/11/26		P12 – Wave Properties - Describe, with examples, processes which convert wave disturbances between sound waves and vibrations in solids. Examples may include the effect of sound waves on the ear drum - Explain in qualitative terms, how the differences in velocity, absorption and reflection between different types of wave in solids and liquids can be used both for detection and exploration of structures which are hidden from direct observation.		
16/11/26				
23/11/26				
30/11/26		P13 – Electromagnetic Spectrum - State the electromagnetic spectrum order, with examples and reference to wavelength and frequency. - Assess and draw conclusions to the risks associated with Ultraviolet waves, X-rays and gamma ray. - Apply concepts of reflection and refraction to EM waves.		
07/12/26				
14/12/26				
21/12/26	CHRISTMAS HOLIDAY			
28/12/26				
04/01/27		P15 – Electromagnetism - Describe the attraction and repulsion between unlike and like poles for permanent magnets - Describe the difference between permanent and induced magnets. - Describe how to plot the magnetic field pattern of a magnet using a compass	P13 – Core Task	
11/01/27				
18/01/27				
25/01/27				

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		- Draw the magnetic field pattern of a bar magnet showing how strength and direction change from one point to another - Explain how the behaviour of a magnetic compass is related to evidence that the core of the Earth must be magnetic. - Describe how the magnetic effect of a current can be demonstrated - Draw the magnetic field pattern for a straight wire carrying a current and for a solenoid (showing the direction of the field) - Explain how a solenoid arrangement can increase the magnetic effect of the current. - Apply Flemmings Left hand rule to various examples.	
01/02/27	Y11	Paper 2 Assessment	
08/02/27	Y11		
15/02/27	HALF TERM		
22/02/27		Paper 2 DIRT All required practicals revisited. Class and student specific revision.	P15 Core Task
01/03/27			
08/03/27			
15/03/27			
22/03/27			
29/03/27	SPRING BREAK		
05/04/27			
12/04/27		All required practicals revisited. 2025 exam papers completed Class and student specific revision.	Practical Assessment
19/04/27			
26/04/27			
03/05/27			
10/05/27		Exam Season Begins.	
17/05/27			
24/05/27			
31/05/27	HALF TERM		
07/06/27		Study leave and exam season continues.	
14/06/27			
21/06/27			
28/06/27			
05/07/27			
12/07/27			