

National curriculum or specification coverage

P11 - Force and pressure

- P11.1 - Pressure and surfaces
- P11.2 - Pressure in a liquid at rest
- P11.3 - Atmospheric pressure
- P11.4 - Upthrust and flotation

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

P14 - Light

- P14.1 - Required Practical Reflection of light
- P14.2 - Required Practical Refraction of light
- P14.3 - Light and colour
- P14.4 - Lenses
- P14.5 - Using lenses
- P12.2 - Required Infrared Radiation

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)

P16 - Space

- P16.1 - Formation of the Solar System
- P16.2 - The life history of a star
- P16.3 - Planets, satellites, and orbits
- P16.4 - The expanding Universe
- P16.5 - The beginning and future of the Universe

Date	Exams/ Assessments	Learning Intentions	Core Task / Assessments
31/08/26		P11 - Force and pressure - Know that a fluid can be either a liquid or a gas. - Know that the pressure in fluids causes a force normal (at right angles) to any surface. - Calculate the differences in pressure at different depths in a liquid. - A partially (or totally) submerged object experiences a greater pressure on the bottom surface than on the top surface. This creates a resultant force upwards. This force is called the upthrust. - Describe the factors which influence floating and sinking.	Assessment 1 (PPE 1) – Paper 1 Exam (P1 – 7)
07/09/26			
14/09/26			
21/09/26			
28/09/26		P12 – Wave Properties - Describe the difference between longitudinal and transverse waves. - Describe wave motion in terms of their amplitude, wavelength, frequency and period. - Construct ray diagrams to illustrate the reflection of a wave at a surface. - Describe the effects of reflection, transmission and absorption of waves at material interfaces. - Required practical activity 9 (physics only): investigate the reflection of light by different types of surfaces and the refraction of light by different substances.	
05/10/26			
12/10/26	Y11	Paper 1 Assessment	
19/10/26	Y11		
26/10/26	HALF TERM		
02/11/26			Assessment 2 (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	

Year 11 Long Term Scheme of Learning 2026-2027

Subject: Physics

		- 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		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.	
23/11/26			
30/11/26			
07/12/26		P14 – Light - construct ray diagrams to illustrate the similarities and differences between convex and concave lenses. - Calculate magnification produced by a lens - Explain how the colour of an object is related to the differential absorption, transmission and reflection of different wavelengths of light by the object - Explain the effect of viewing objects through filters or the effect on light of passing through filters - Explain that all bodies (objects) emit radiation - Explain that the intensity and wavelength distribution of any emission depends on the temperature of the body.	
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 - 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. - Explain how the force on a conductor in a magnetic field causes the rotation of the coil in an electric motor and how this is used in devices such as loudspeakers. - Explain how the generator effect is used in an alternator to generate ac and in a dynamo to generate dc - Draw/interpret graphs of potential difference generated in the coil against time. - Describe, calculate and explain step-up and step-down transformers.	
11/01/27			
18/01/27			
25/01/27			
01/02/27	Y11	Paper 2 Assessment (excluding P16 – space)	
08/02/27	Y11		
15/02/27	HALF TERM		

Year 11 Long Term Scheme of Learning 2026-2027

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22/02/27		P16 - Space - Describe the solar system - Describe the life cycle of a star - Describe the similarities and distinctions between the planets, their moons, and artificial satellites. - Explain qualitatively how: for circular orbits, the force of gravity can lead to changing velocity but unchanged speed, and for a stable orbit, the radius must change if the speed changes. - State and explain red-shift - Know that the observed red-shift provides evidence that space itself (the universe) is expanding and supports the Big Bang theory.	P16 space assessment
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			
17/05/27		Exam Season Begins.	
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			