

A LEVEL PHYSICS

OCR AS (H156) / A Level (H556)

These courses have been developed for students who wish to continue with a study of physics after GCSE. Such a course will prepare students to progress into further education, to follow courses in physics, engineering, one of the other sciences or related subjects, or to enter employment where a knowledge of physics would be useful.

The course is structured into 6 modules:

Module 1 – Development of practical skills in physics Skills of planning, implementing, analysis and evaluation	
Module 2 – Foundations of Physics Includes: Physical quantities and units Scalars and Vectors Measurements.	
Module 3 – Forces and motion Includes: Motion Forces in action Work, energy and power Materials Newton's laws of motion and momentum.	Module 4 – Electrons, waves and photons Includes: Charge and current Energy, power and resistance Electrical circuits Waves Quantum physics.
Module 5 – Newtonian world and astrophysics Includes: Thermal physics Circular motion Oscillations Gravitational fields Astrophysics.	Module 6 – Particles and medical physics Includes: Capacitors Electric fields Electromagnetism Nuclear and particle physics Medical imaging.

A Level Physics continued

Assessment of AS level Physics

		Marks	Duration	Weighting
Paper 1	Breadth in Physics Modules 1, 2, 3, 4		1 hour 30 minutes	50%
	Section A Multiple choice	20		
	Section B Structured questions covering theory and practical skills	50		
Paper 2	Depth in Physics Modules 1, 2, 3, 4		1 hour 30 minutes	50%
	Structured questions and extended response questions covering theory and practical skills	70		

Assessment of A level Physics

		Marks	Duration	Weighting
Paper 1	Modelling Physics Modules 1, 2, 3, 5		2 hours 15 minutes	37%
	Section A Multiple choice	15		
	Section B Structured questions covering theory and practical skills	85		
Paper 2	Exploring Physics Modules 1, 2, 4, 6		2 hours 15 minutes	37%
	Section A Multiple choice	15		
	Structured questions covering theory and practical skills	85		
Paper 3	Unified Physics All modules		1 hour 30 minutes	26%
	Structured questions and extended response questions covering theory and practical skills	70		
Non exam assessment	Practical endorsement for Physics	Pass / Fail	Non-exam assessment	Reported separately
	Minimum of 12 practical activities completed. Competence reported separately to the A level grade	70		

For further information, please contact
Carol Hubbard on 0116 287 9921