Accredited

PHYSICS A AT A GLANCE

COURSE OVERVIEW

Physics A content is split into six teaching modules: Modules 1 to 4 constitute the stand-alone AS Level qualification; Modules 1 to 6, combined with the Practical Endorsement, constitute the full A Level. The modules can be summarised as:

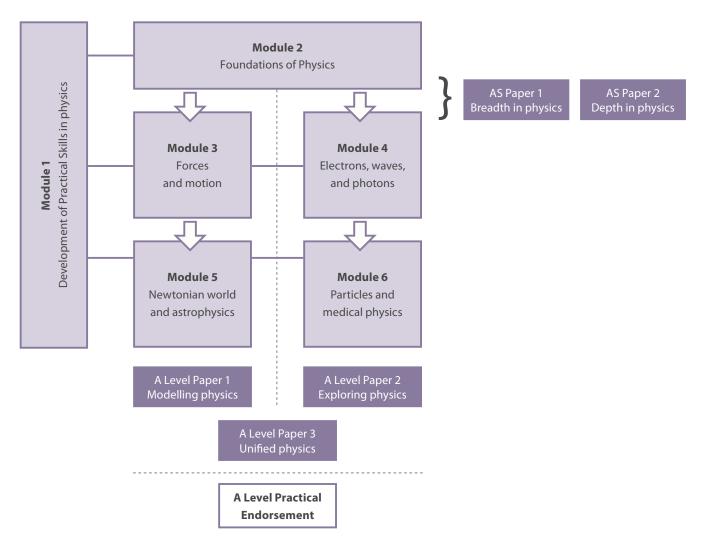
- Module 1: Development of practical skills.
- Module 2: Foundations of physics.
- Module 3: Forces and motion.
- Module 4: Electrons, waves, and photons.
- Module 5: Newtonian world and astrophysics.
- Module 6: Particles and medical physics.

At AS Level:

 Papers 1 and 2 can assess any content from Modules 1 to 4.

At A Level:

- Paper 1 assesses content from Modules 1, 2, 3 and 5
- Paper 2 assesses content from Modules 1, 2, 4 and 6
- Paper 3 assesses content from Modules 1 to 6.



CONTENT OVERVIEW

PHYSICS A – AS (H156) / A LEVEL (H556)

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
- · Making measurements and analysing data
- · Nature of quantities.

Module 3 – Forces and motion

Includes:

- Motion
- Forces in action
- · Work, energy and power
- Materials
- Newton's laws of motion and momentum.

Module 5 – Newtonian world and astrophysics (A level only)

Includes:

- · Thermal physics
- Circular motion
- Oscillations
- Gravitational fields
- · Astrophysics.

Module 4 – Electrons, waves and photons

Includes:

- · Charge and current
- Energy, power and resistance
- · Electrical circuits
- Waves
- Quantum physics.

Module 6 – Particles and medical physics (A level only)

Includes:

- Capacitors
- · Electric fields
- Electromagnetism
- Nuclear and particle physics
- · Medical imaging.

ASSESSMENT OVERVIEW

AS LEVEL PHYSICS A (H156) – FIRST EXAM JUNE 2016

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



A LEVEL PHYSICS A (H556) – FIRST EXAM JUNE 2017

Paper		Marks	Duration	Weighting
Paper 1	Modelling physics Content – Modules 1, 2, 3, 5	100	2 hr 15 mins	37%
	Section A – Multiple choice	15		
	Section B – Structured questions, covering theory and practical skills	85		
Paper 2	Exploring physics Content – Modules 1, 2, 4, 6	100	2 hr 15 mins	37%
	Section A – Multiple choice	15		
	Section B – Structured questions, covering theory and practical skills	85		
Paper 3	Unified physics Content – all modules	70	1 hr 30 mins	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
	See pages 28-29. Teacher-assessed component common to Physics A and Physics B (Advancing Physics). Candidates complete a minimum of 12 practical activities to demonstrate practical competence. Performance reported separately to the A Level grade. Moderation details still to be confirmed by Ofqual at the time of going to press	Reported separately		