

A Level Physics OCR Physics B (Advancing Physics)

Curriculum content:

	Year 12	Year 13
Autumn Term	Practical Skills Ch 1 and 2 Communication Ch 3 Sensing Ch 4 and 5 Materials	Ch 10 and 11 – Mathematical Modelling Ch 12 The Gravitational Field Ch13 Our Place in the Universe Ch 14 and 15 – Models of Matter
Spring and Summer Terms	Ch 6 and 7 Wave and Quantum Behaviour Ch 8 and 9 Space Motion and Time	Ch 15 - Electromagnetism Ch 16 – The Electric Field Ch 17 – Modelling the Atom Ch 18 – Ionising Radiation

Skills:

- Scientific thinking
- Experimental skills and strategies
- Analysis and evaluation
- Scientific vocabulary, quantities, units, symbols and nomenclature
- Problem solving
- Mathematical Skills
- Explanations of phenomenon
- Safe working practices during experiments

- Proficient use of technical language

Assessment:

Paper	Paper 1	Paper 2	Paper 3
Length of Exam	2hr15	2hr15	1hr30
Marks Available	110	100	60

Paper 1 - H557/01 Fundamentals of Physics

- Section A – Multiple Choice (30 marks)
- Section B - Short Answer (max 4 marks per question)
- Section C – Longer Answer questions (including literacy marking)

Paper 2 - H557/02 Scientific Literacy in Physics

- Section A – Short Answer/Warm Up
- Section B – In depth questions (inc. literacy) up to 6 marks on all topics
- Section C – Questions based on Pre-release material (inc. literacy)

Paper 3 - H557/03 Practical Skills in Physics

- Section A – Variety of experiments assessed.
- Section B – In depth analysis of one/two practicals

There is also a Practical Endorsement, which is a separate qualification and graded either pass or fail. This involves the completion of a minimum of 12 practical activities at an appropriate A level Standard throughout the course.

More information on the specification and assessments can be found on the OCR website: <https://www.ocr.org.uk/qualifications/as-and-a-level/physics-b-advancing-physics-h157-h557-from-2015/>