

A-level Physics Induction

June 2026

Outline of the session

- ✓ Welcome
- ✓ A-level physics exam board and content
- ✓ How to organise your folders and work
- ✓ Textbooks, revision guides, workbooks
- ✓ Summer practice booklet and project
- ✓ Fun physics investigations
- ✓ Resources

AS- Level

Assessment overview

Content is in four modules:

- Module 1: Development of practical skills in physics
- Module 2: Foundations in physics
- Module 3: Forces and motion
- Module 4: Electrons, waves and photons

Component	Marks	Duration	Weighting
Breadth in physics (01)	70	1 hour 30 mins	50%
Assesses content from all four modules			
Depth in physics (02)	70	1 hour 30 mins	50%
Assesses content from all four modules			

A- Level

Assessment overview

Content is in six modules:

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

Component	Marks	Duration	Weighting
Modelling physics (01)	100	2 hours 15 mins	37%
Assesses content from modules 1, 2, 3 and 5			
Exploring physics (02)	100	2 hours 15 mins	37%
Assesses content from modules 1, 2, 4 and 6			
Unified physics (03)	70	1 hour 30 mins	26%

A-Level Physics Content

Module 1: Development of practical skills in physics

- Practical skills assessed in a written examination
- Practical skills assessed in the practical endorsement

Module 2: Foundations in physics

- Physical quantities and units
- Making measurements and analysing data
- Nature of quantities

Module 3: Forces and motion

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

Module 4: Electrons, waves and photons

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

Module 5: Newtonian world and astrophysics

- Thermal physics
- Circular motion
- Oscillations
- Gravitational fields
- Astrophysics and cosmology

Module 6: Particles and medical physics

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

Summary of the assessment model

The practical skills assessment model consists of a theoretical and a practical component.

- The 'theoretical' component is an **indirect** assessment of practical skills through the written examination at the end of the course.
- The 'practical' component is a **direct** assessment of practical skills displayed by students as they are performing practical work. This is assessed by the teacher across the whole of the course.

The indirect, written assessment is a component of both AS and A Level Physics. The direct assessment, known as the Practical Endorsement, is a component of A Level Physics only.

The skills required for the practical skills assessments are set out in Module 1. Development of practical skills in physics. Module 1 is divided into two sections:

- **Section 1.1** of the specification covers skills that are assessed indirectly in a written examination. These skills may be assessed in any of the written papers that constitute the written assessment, at both AS and A Level.
Assessment of practical skills forms a minimum of 15% of the written assessment at both AS and A Level.
- **Section 1.2** of the specification covers skills that are assessed directly through the Practical Endorsement. Student performance is teacher-assessed against the Common Practical Assessment Criteria (CPAC).

The Practical Endorsement is a component of the assessment at A Level only. There is no direct assessment of practical skills at AS Level.

Performance in the Practical Endorsement is reported separately to the performance in the A Level as measured through the externally assessed components.

Pre learning:

You are used to going to a lesson and then being given work to do after the lesson.

You will now be given work to do ahead of the lesson. In most cases this will be learning the basics of a concept ahead of the lesson using textbooks, online resources and some premade videos. In other cases, you will be preparing for practical work. **Lesson time will be spent consolidating and deepening your understanding of a topic.**

Organising the resources

Folder 1

Course guide
Specification
Folder check sheet
Notes, exam questions divided
by topic

Folder 2

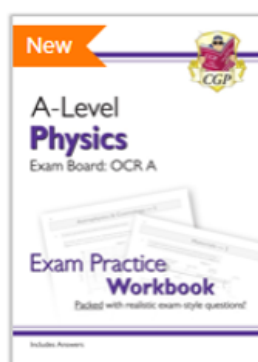
PAG Folder
Practical Endorsement
worksheets and notes

STORED IN SCHOOL

Topics booklets

Supplied by Dr
Rafiee/Mr Arklay
for each topic, and
students are expected to
complete them by the
end of the topic.

Meridian Trust			
A-level Physics			
Topic 13: Quantum			
Name:			
Current target grade:		Last Topic Test Grade:	
Achieved topic content:			
Score	Date	Score	Date
Select Topics		Due date	Completed
			☐
			☐



Exam practice workbook

For home practice;
available for
purchase online.

You will have access to the Kerboodle and online textbook/resources.



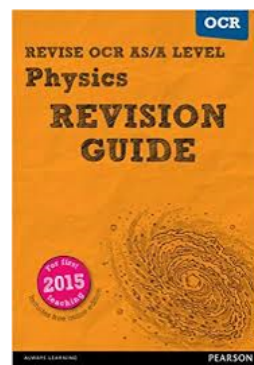
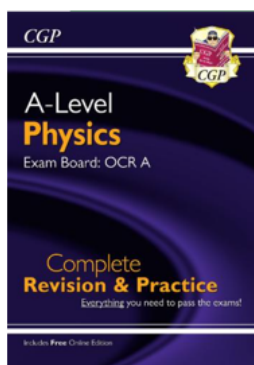
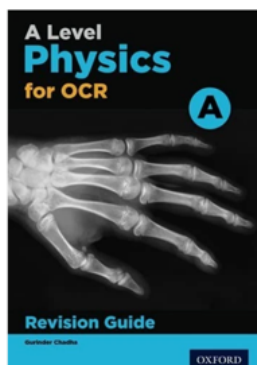
Lessons, Resources, Assessment,
and Kerboodle Books

[Discover how Kerboodle can support you](#)



Textbooks/ revision guides

In addition, there are a range of textbooks/ revision guides you can buy for A-level physics to support your learning.



Bridging work over the summer

- 5 min presentations! (about your favourite topic in physics)
- Completing the Foundation of physics' booklet during the summer break.

Some useful links:

- <https://www.ocr.org.uk/qualifications/as-and-a-level/physics-a-h156-h556-from-2015/specification-at-a-glance/>
- [Cambridge OCR Level 3 Advanced Level in Physics A Specification \(H556\)](#)
- [5878814F9410FEBBD058318E4A27839F.pdf](#)