

Physics- Exam Board: AQA

Subject Overview (coursework/exam split, timings, weightings etc.):

- Written exam 2 papers: 1 hour 30 minutes
- 75 marks on each paper (total 150 marks)
- No practical mark

Content is in four modules:

- Unit 1 – Measurements and their errors
- Unit 2 – Particles and radiation
- Unit 3 – Waves
- Unit 4 – Mechanics and materials
- Unit 5 – Electricity
- Unit 6 – Further Mechanics
- Unit 7 – Fields and their consequences
- Unit 8 – Nuclear physics
- Unit 12 – Turning points in physics

AS Assessments

Paper 1	+	Paper 2
What's assessed		What's assessed
Sections 1 – 5		Sections 1 – 5
Assessed		Assessed
<ul style="list-style-type: none"> • written exam: 1 hour 30 minutes • 70 marks • 50% of AS 		<ul style="list-style-type: none"> • written exam: 1 hour 30 minutes • 70 marks • 50% of AS
Questions		Questions
70 marks of short and long answer questions split by topic.		Section A: 20 marks of short and long answer questions on practical skills and data analysis Section B: 20 marks of short and long answer questions from across all areas of AS content Section C: 30 multiple choice questions

A Level Assessments

Paper 1	+	Paper 2	+	Paper 3
What's assessed Sections 1–5 and 6.1 (Periodic motion)		What's assessed Sections 6.2 (Thermal Physics), 7 and 8 Assumed knowledge from sections 1 to 6.1		What's assessed Section A: Compulsory section: Practical skills and data analysis Section B: Students enter for one of sections 9, 10, 11, 12 or 13
Assessed <ul style="list-style-type: none"> written exam: 2 hours 85 marks 34% of A-level 		Assessed <ul style="list-style-type: none"> written exam: 2 hours 85 marks 34% of A-level 		Assessed <ul style="list-style-type: none"> written exam: 2 hours 80 marks 32% of A-level
Questions 60 marks of short and long answer questions and 25 multiple choice questions on content.		Questions 60 marks of short and long answer questions and 25 multiple choice questions on content.		Questions 45 marks of short and long answer questions on practical experiments and data analysis. 35 marks of short and long answer questions on optional topic.

Key Topics Year 12:

Measurements and their errors

- Use of SI units
- Limitations of physical measurements

Particles and radiation

- Particle classification
- Particle interactions
- Electromagnetic radiation and quantum phenomena

Waves

- Progressive and stationary waves
- Superposition
- Refraction, diffraction and interference

Mechanics and materials

- Force, energy and momentum
- Projectile motion
- Materials

Electricity

- Current electricity
- Resistance and resistivity
- Electromotive force

Useful websites:

www.kerboodle.com

[Isaac Physics](#)

www.physicsandmathstutor.com

www.physicstutoronline.co.uk

Useful resources:

- AQA Collins Textbook
- Kerboodle.
- Isaac Physics Mastering Essential Pre-University Physics
- Curriculum Press fact/question sheets

Useful revision tips:

- Condense information into key points onto fact cards/flashcards
- Summarise key content onto revision mind maps
- Apply knowledge to quick fire questions
- Past exam paper practise
- Write exam questions to test yourself
- Construct mark schemes and become the examiner
- Exam timing practise – 1 min per mark training