

Physics A Level

Exam Board: AQA

Entry Requirements: Students require a GCSE Grade 6 in GCSE Physics or grade 7-7 in combined science. Students also require at least a grade 6 in GCSE mathematics.

Subject Content

1. Measurements and their errors
2. Particles and radiation
3. Waves
4. Mechanics and materials
5. Electricity
6. Further mechanics and thermal physics
7. Fields and their consequences
8. Nuclear physics
Options from:
 9. Astrophysics, Medical physics, Engineering physics, Turning points in physics or Electronics



Skills gained and enrichment opportunities:

The A Level specification should encourage candidates to develop essential knowledge and understanding of the concepts relating to physics. This will encourage and develop the students' thought and problem-solving strategies, aid in the search for solutions to complex problems and issues. Students will develop skills such as working independently and as part of a team, strengthen their independent learning skills and will have opportunities to take part in discussions and attend conferences, university lectures and visit museums.

Assessments

Paper 1: Any content in sections 1 to 5 and 6.1 (Periodic motion)
2 hours written exam paper worth 34% of A-level course.

Out of 85 marks:
60 marks: Mixture of short and long answer questions.
25 multiple choice questions on content.

Paper 2: Sections 6.2 Thermal Physics, 7 and 8.
2 hours written exam paper worth 34% of A-level course.

Out of 85 marks:
60 marks: Mixture of short and long answer questions.
25 multiple choice questions on content.

Paper 3: Section A compulsory section on practical skills and data analysis & section B from optional list.
2 hours written exam paper worth 32% of A-level course.

Out of 80 marks:
45 marks: Mixture of short and long answer questions on practical experiments and data analysis.
35 marks of short and long answer questions on optional topic.

Progression/career opportunities:

There are many opportunities to study the following in higher education: Medicine, Pharmacy, Engineering, Electronic/Civil Engineering and Aeronautics. Other career opportunities include: Research and Development, Teaching and fields related to Science.

Further information:

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