

This course is designed to encourage candidates to develop:

- Excellent problem-solving and experimental skills which are highly transferable.
- Flexibility to study a wide range of topics that leads to careers from medical physics to engineering or particle physics.

What will you learn?

Physics at A Level covers mechanics, thermal physics, particle physics and astronomy among other topics. The AQA specification provides numerous opportunities to use practical experiences to link theory to reality and will equip you with the essential practical and theoretical skills you need to pursue a wide range of career options.

How are you assessed?

Paper 1

2 hour written exam (85 marks) 34% of A-level, 60 marks of short & long answer questions. 25 multiple choice questions on content.

Paper 2

2 hour written exam (85 marks) 34% of A-level, 60 marks of short & long answer questions. 25 multiple choice questions on content.

Paper 3

2 hour written exam (80 marks) 32% of A-level, short/long questions based on practical experiments and data analysis; this can be on anything from the entire A-level course (except the option section).

Where will it take you?

This is a traditional academic route which unlocks opportunities in Physics and a full range of engineering courses in university. It is a fact that Physics graduates are amongst the most highly sought after and the best paid after completing their degrees. This course is equally suitable for male or female students.

Who to talk to?

Please speak to Ms. Sarah Smith, or email Sarah.Smith@thebourneacademy.com

What do you need to study this course?

Five or more 9-4 grades at GCSE including English and Maths. A grade 6 or higher in GCSE Physics or combined Science. A GCSE grade 6 in Maths is essential.

Core content

- Measurements and their errors fields
- Electromagnetic Radiation
- Quantum Phenomena
- Waves
- Mechanics
- Materials
- Electricity
- Further mechanics
- Thermal Physics
- Gravitational and Electric Fields
- Capacitors
- Magnetic fields
- Nuclear Physics

Options in Year 2

- Astrophysics
- Medical physics
- Engineering physics
- Turning points in physics
- Electronics