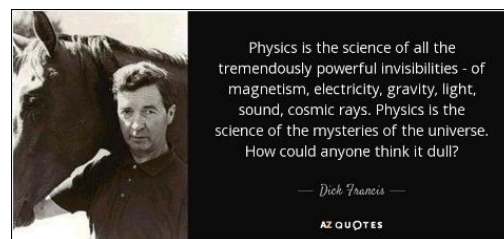




# PHYSICS A LEVEL (AQA)



This course is designed to encourage candidates to develop:

- An awe for the universe
- Excellent problem solving skills
- A confident understanding of the
- Practical skills alongside understanding of concepts and principles
- An appropriate and relevant foundation of knowledge and skills for

A level Physics is a two year course leading to a full A level (A2)

## What will you learn?

### Core 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 in Year 2

- 9 Astrophysics
- 10 Medical physics
- 11 Engineering physics
- 12 Turning points in physics
- 13 Electronics

## How are you assessed? (*This describes the A-Level route*).

### Paper 1

- Any content from topics 1– 5, including relevant practical skills
- written exam: 2 hours
- 85 marks
- 34% of A-level
- 60 marks of short & long answer questions. 25 multiple choice questions on content

### Paper 2

- Any content from topics 6 – 8, including relevant practical skills
- written exam: 2 hours
- 85 marks
- 34% of A-level
- 60 marks of short & long answer questions. 25 multiple choice questions on content

## How are you assessed? (cont'd/...)

### Paper 3

- Section A Compulsory section: Practical skills and data analysis
- Section B: Students enter for one of sections 9, 10, 11, 12 or 13
- written exam: 2 hours
- 80 marks
- 32% of A-level
- 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

### What will you learn?

You will learn about a range of natural phenomena from across the universe and how they work

### Where will it take you?

This is a traditional academic route which allows you to go on to study Physics, Engineering and other scientific applications at University as well as a host of future employment opportunities that require excellent problem solving skills.

### Who to talk to?

Please speak to Imogen Gater, or email [imogen.gater@thebourneacademy.com](mailto:imogen.gater@thebourneacademy.com)

### What will you need to study this course?

Students will need to have five or more A\*-C grades at GCSE. You must have at least a grade B in GCSE Core and Additional Science or B in GCSE Physics.