



## Abbey Gate College Sixth Form



# Physics

## Why study Physics at A Level?

“ *I want to understand the Universe.* ”  
6th Form student

The Physics content at A Level is relevant to real world experiences and is interesting to teach and learn. This Physics specification is a stepping stone to further study to ensure students develop the skills that the Universities want to see. This approach has led to a specification that will inspire students, nurture a passion for Physics and lay the groundwork for further study in science or engineering.

“ *I like Physics because you get to do a lot of interesting practicals.* ”  
6th Form student





# Course Content

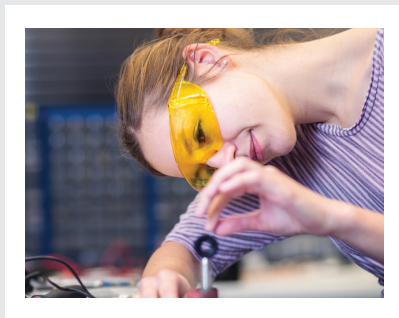
The full A Level is taught over two years with 3 exams of 2 hours at the end of the Upper Sixth year.

## Lower Sixth:

- Measurements and their Errors
- Particles and Radiation
- Waves
- Mechanics and Materials
- Electricity

## Upper Sixth:

- Further Mechanics and Thermal Physics
- Fields and their consequences
- Nuclear Physics



The following exams are taken at the end of the Upper Sixth

### Paper 1

#### Content

- Topics 1-5
- Periodic motion

#### Assessment

- Written exam: 2 hours
- 85 marks
- 34% of A Level

#### Questions

- 60 marks: a mixture of short and long answer questions
- 25 marks: multiple choice questions

### Paper 2

#### Content

- Topics 6-8
- Periodic motion

#### Assessment

- Written exam: 2 hours
- 85 marks
- 34% of A Level

#### Questions

- 60 marks: a mixture of short and long answer questions
- 25 marks: multiple choice questions

### Paper 3

#### Content

- Practical skills
- Data analysis
- Optional topic

#### Assessment

- Written exam: 2 hours
- 80 marks
- 32% of A Level

#### Questions

- 45 marks: questions on practical experiments and data analysis
- 35 marks: questions on optional topic

There is no longer an externally assessed practical unit but at least one double lesson per week will be designated for practical work in a very well equipped lab using the latest equipment and datalogging apparatus.



## SKILLS obtained by studying Physics:

- Intellectual skills
- Communication skills
- Organising and interpersonal skills
- Research skills
- Numeracy and computing skills