

# Study Programme

## Physics (A Level)



Bishop Laney  
Sixth Form

### QUALIFICATION

GCE A Level Physics

### WHY SHOULD I CHOOSE THIS STUDY PROGRAMME?

Physics is the study of the nature and properties of matter and energy. It is a fundamental science that underpins our understanding of everything from the incredibly tiny to the astronomically large. Physics is concerned with fundamental questions such as: How did the Universe begin? What is the Universe made of? What rules govern the behaviour of matter and energy? Modern technology is based on the discoveries and research of physicists.

A-Level physics can prepare you for a suite of careers, including research scientist, medicine, engineering, rocket scientist, nuclear technician, nanotechnologist, particle physicist, architect and many more

### WHAT WILL I STUDY?

The course is split into 6 modules:

- Development of practical skills in physics
- Fundamental data analysis
- Physics in action
- Understanding the process
- Rise and fall of the clockwork universe
- Field and particle

### WHAT COULD THIS QUALIFICATION LEAD TO?

A-Level Physics can lead to vocational and university courses and/or prepare you for a suite of careers, including research scientist, medicine, engineering, rocket scientist, nuclear technician, nanotechnologist, particle physicist, architect and many more.

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### WHAT WILL BE EXPECTED OF ME?

- A strong work ethic
- Regular attendance to lessons
- Bringing the correct equipment, including textbooks
- Completion of homework which will include pre-reading and reading around the subject
- Meeting deadlines
- An understanding that your progress is your responsibility
- The ability and willingness to work with other students
- Attendance to intervention sessions, where necessary

### WHO WILL BE INVOLVED?

- YOU!
- The teachers
- Visiting lecturers
- Hosts at university and industry visits

### ENTRY REQUIREMENTS

At least 5 GCSE Grades 9 – 4 or equivalent to include English & Maths. Also required is Science at Grade 6 or above.

### FURTHER INFORMATION

What is the assessment model?

This is a 2 year course.

3 terminal exams (in year 13)

- Fundamentals of Physics: 110 marks, 2 hours 15 minutes written paper. Counts for 41% of total A level.
- Scientific literacy in physics: 100 marks, 2 hours 15 minutes written paper. Counts for 37% of total A level.
- Practical skills in physics: 60 marks, 1 hour 30 minutes written paper. Counts for 22% of total A level.

The first two exams cover specific modules of the course in a lot of depth. The third exam covers the entire course, but in less depth.

There are also the practical assessments (Practical Endorsement in physics) which are not exam based and count separately to the A level.