

Why study this subject at Hayesfield?

Physics is the true application of mathematics, using mathematics to explain the origin and behaviours of the Universe and seeking applications for our knowledge.

The more physics you study, the more you find that some of the things that you take for granted are not as simple as they first seem and some new ideas are needed to explain what is observed.

Course content

Module 1 - Development of practical skills in physics

Module 2 - Foundations of physics

Module 3 - Forces and motion

Module 4 - Electrons, waves and photons

Module 5 - Newtonian world and astrophysics

Module 6 - Particles and medical physics

Assessment

Three written terminal examinations at the end of Year 13:

- Modelling Physics (2 ¼ hours)
- Exploring Physics (2 ¼ hours)
- Unified Physics (1 ½ hours)

Practical Endorsement in Physics Certificate.

Physics students become scientists with mathematical, logic and problem-solving skills, leading to careers in scientific research, medicine, engineering and banking.

Entry requirements and subject specific skills

Two Grades 6s or better in GCSE Sciences and at least a Grade 6 in GCSE Maths.

Students must also take Maths A Level or Core Maths.

This subject works well with

Mathematics, Further Mathematics, Chemistry and Engineering, Languages.

Extra/Super curricular activities

Support and revision sessions, talks, externally provided workshops and an end of year field trip.

Future Pathways

Physics A Level is highly desirable if you wish to pursue employment or further study in any of the Sciences, Engineering, Architecture, Medicine, Banking, Mathematics and many forms of technology or enterprise.

Recent exam success

2015-2017: 100% A*-E Average.

2015-2017: 74% A*-C Average.

In 2017, 100% of students gained the Practical Endorsement in Physics Certificate. This qualification is often requested as an entry requirement for leading universities.