Brigshaw SIXTH FORM

(AQA) - A Level

PHYSICS

The Physics course is designed to give students a real understanding of how Physics can relate to real world experiences. The course offers a great foundation for future study and focuses on the key areas associated with this.

You can also expect a good balance between theory and the supporting mathematics. There will also be lots of opportunities to develop key skills as well as practical techniques.

FUTURE OPPORTUNITIES

Physics is an excellent subject to choose if you are considering a career in the Physical Sciences, Engineering, Biophysics, Medicine, Chemistry, or even less obvious fields such as law, the music industry, architecture, accountancy, or management. The analytical, problem-solving and mathematical skills gained from studying Physics are highly valued across a wide range of professions. Whether you wish to pursue scientific research, contribute to technological innovation, or apply your critical thinking in areas such as finance, business, or law, Physics provides a strong foundation for success in many diverse career paths.

ENTRY REQUIREMENTS

GCSE:

6 in GCSE Physics or 6-6 in GCSE Combined Science. Also required, a 6 in GCSE Mathematics and 4 in GCSE English. It is strongly recommended you also study A level Maths alongside this course.

CONTACT:

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COURSE CONTENT & ASSESSMENT

In the first year you will study five topic areas;

- Measurements and their errors
- Particles and radiation
- Waves
- Mechanics and materials
- Electricity

In the second year of the course, you will go on to study a further four topic areas (one of which is optional), which build on the knowledge and understanding developed in year 1;

- Further mechanics and thermal physics
- Fields and their consequences
- Nuclear physics

Plus, one additional optional topic which is currently:

- Astrophysics

Practical work is embedded throughout the units of work and you will complete a minimum of 6 practical activities in each year of the course. In addition to contributing to your understanding of the physics concepts being studied, these practical activities will also develop your skills in a number of procedures.

EXAMINATIONS Year 12

- **Practical endorsement assessing practical skills in 6 practical activities**

EXAMINATIONS Year 13

- **Practical endorsement assessing practical skills in 6 practical activities**
- **Three 120-minute written examinations at the end of year 2**