

Year 13 work in progress



Students studying this course say:

"I have always had an interest in Physics, this has grown as more mathematical applications have been introduced to the subject. I enjoy both the theoretical and practical aspects and found the trip to CERN captivating, resulting in the clarification of the degree I wish to study at University, namely physics. During A level I have developed confidence and understanding. These have been strengthened through independent study and educational experiences, challenges I have thoroughly enjoyed" Jenna (Y13)

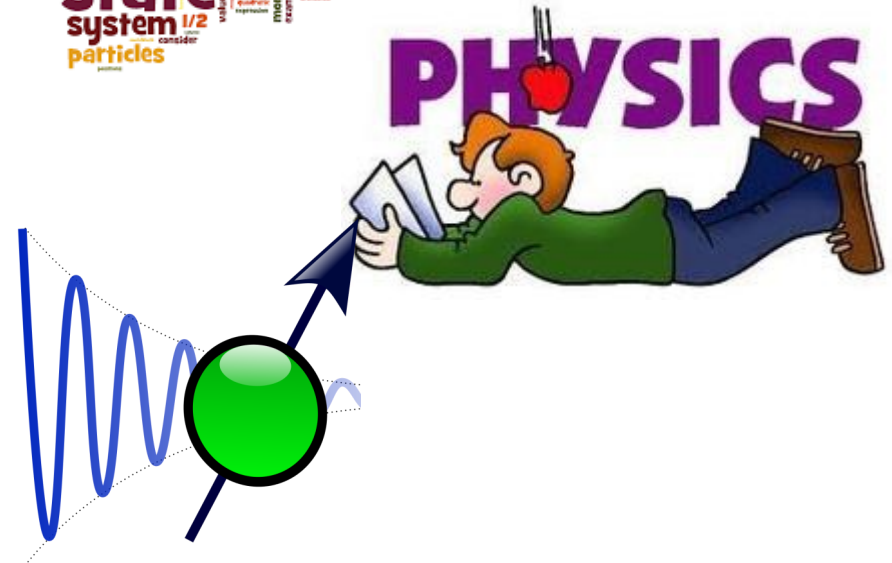
"I chose to continue physics into A level because I enjoyed both the theoretical and practical sides of the course. Learning about a wide range of topics (such as particle physics, mechanics, electricity) shows how the complex world is entirely logical and can be explained using physics. Taking A level physics also provides you with the opportunity to experience a one in a lifetime trip to the centre of modern physics research and particle physics: CERN in Geneva, Switzerland. The trip gives a fascinating and rewarding visit that you will surely never forget" Jonathon (Y13)



Succeeding Together

Trinity Sixth Form

A Level Physics



What is the level of course I will take?

A Level–Level 3–AQA 7408

How will I be assessed?

The full **A level Physics** will be assessed at the end of the two years, there is no coursework. There will be 3 papers each of which will be 2 hours long.

Paper 1 – Topics 1 to 5 (see 'What I will learn')

Paper 2 – Topics 6 to 8 (see 'What I will learn')

Paper 3 – Practical skills and data analysis (based upon the compulsory practical work) and the option

Practical skills are taught throughout the course and will be assessed by written questions within the written papers at the end of the course. There is also a Practical Endorsement of this course.

How will the course help me after Sixth Form?

'A' Level Physics is a valuable qualification which is highly regarded by universities and employers. The number of careers involving Physics is vast, from medical Physics to engineering, to optometry and architecture.

What will I learn?

The full A Level consists of two years, with all examinations taking place at the end of the course. There is still an option to complete an AS Physics qualification, but this will not contribute to the full A Level

The first year of the course consists of 5 topics:

- 1 – Measurements and their errors
- 2 – Particles and Radiation
- 3 – Waves
- 4 – Mechanics and materials
- 5 – Electricity

The second year of the course consists of 3 core and 1 optional unit:

- 6 – Further Mechanics and thermal physics
- 7 – Fields and their consequences
- 8 – Nuclear physics

One option chosen from:

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

There are also 12 core practical's that must be completed during the course, which will be examined on a written paper.

How will I learn?

The course at St John Fisher is taught by two very experienced teachers who share 6 lessons a week. Each student is provided with a textbook for the specification. Theory lessons are taught and practice problems are set to answer. Maths support is available for those who need it .

There is a residential visit to CERN in Geneva at the end of the year 12.