

Physics

Introduction

If you choose Physics you will begin a journey from the tiniest part of an atom to the widest reaches of the universe and begin to delve into big questions that scientists such as Stephen Hawking, Albert Einstein and Sir Isaac Newton have tried to answer. Physicists look for all the hidden laws that explain why all matter and energy in the known

universe exists, where it comes from and how it behaves the way it does.

What might the course lead onto?

From Medicine to Engineering, from Law and Finance to Architecture, Physics is one of the subjects that opens more doors than almost any other subject. Our students typically go on to study courses in Maths, Physics, Computer Science and Engineering.

Content

In this course, students will study the foundations of physics, where they learn the common internal language of physical quantities. Physics concerns both magnitude and direction. From the very beginning of the universe 14 billion years ago to the most contemporary scientific discoveries, we have become fascinated with collisions and explosions, including their respective sizes and directions.

Students will study the three laws of motion, the essentials of electric current and charge, and electric and magnetic fields, as well as astrophysics and cosmology.

Students will be sent into the microscopic world of nuclear and particle physics to study

the laws that govern the behaviour of this very world.

You would be joining a successful and well-resourced department. Numbers taking Physics are increasing rapidly due to our reputation for enthusiastically delivering an exciting course, and our excellent results. In recent years, we have led exciting trips to the Moscow Space Centre and to CERN near Geneva.

Course Requirement

Grade 6 in GCSE Combined Science: Trilogy or 6 in GCSE Physics and at least grade 6 in Maths.

Course Leader

Mr D Vincent



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