



Midhurst Rother College

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Physics

Exam Board: AQA

Contact Teacher: Mr M Sang

Why study Physics?

Physics involves creative thought, mathematics, analysis, practical work, linking ideas, communicating, ethics and faith, designing, a sense of humour, interpreting data, problem solving, determination and understanding the universe but do not worry, we develop these abilities as we progress.

We aim to answer questions such as what is the LHC (Large Hadron Collider), what is my wavelength, is a tennis ball a wave or a particle, where did the universe come from, how do I explain Lewis Carroll's monkey puzzle, 'watt' is the unit of power, who or what is a 'quark' and what is my half life?

A level physics is a very well respected qualification. Throughout the course students are constantly encouraged to develop their communication, ICT, research and practical skills. Students study Physics A level as a pathway to university courses in Physics and other subjects where Physics is a key component, such as engineering. However, Physics A level is highly regarded in many other areas such as Law and Business because of the training in analytical problem solving.

Course details

AS level

Unit 1: Particles, Quantum Phenomena and Electricity

Unit 2: Mechanics, Materials and Waves

Unit 3: Investigative and Practical Skills

A2 level

Unit 4: Fields and Further Mechanics

Unit 5: Nuclear Physics, Thermal Physics and Turning Points in Physics

Unit 6: Investigative and Practical Skills

How is the course taught and assessed?

Most of the course is supported by experimental work. We also expect you to broaden your knowledge by going on trips and attending talks of interest, and by following popular scientific accounts in the media.

Entry requirements

All students will be expected to have achieved 6 GCSE grades C or above including English Language and Mathematics and need to have an aptitude for Mathematics. It is recommended that students achieve grade B or above in Mathematics and GCSE Triple Science or Core Science and Additional Science.