



BRUTON SCHOOL

FOR GIRLS

ON SUNNY HILL

Physics

Mrs J Rostrup

Academic Requirements

Candidates would be expected to possess a minimum of Grade B in GCSE Physics, or B in both Core and Additional Science (Double Award). It will be very helpful to have at least a Grade B in GCSE Mathematics, as numeracy and mathematical skills are important in Physics. We work closely with the Mathematics department to provide help for the non-A level Mathematics students if they have a problem with the mathematics required. Communication is also important in Physics, so you will need to be able to communicate effectively, to research and to think critically about problems. You will learn theory, develop relevant practical skills throughout the course and have fun!

Course Specification: OCR Physics A (H556)

The qualification builds on the knowledge, understanding and process skills that will have been developed in GCSE Science. The content is split into six teaching modules: modules 1 to 6, combined with the Practical Endorsement, constitute the full A level. The modules can be summarised as:

Module 1: Development of Practical skills

Module 3: Forces and Motion

Photons

Module 5: Newtonian World and Astrophysics
Physics

Module 2: Foundations in Physics

Module 4: Electrons Waves and

Module 6: Particles and Medical

Assessment summary:

Paper 1 Modelling Physics:	Assesses content from modules 1, 2, 3 and 5
Paper 2 Exploring Physics:	Assesses content from modules 1, 2, 4 and 6 plus material flagged within the specification from modules 3 and 5
Paper 3 Unified Physics:	Assesses content from modules 1 to 6



Patrons: Mrs A Maw, Lord-Lieutenant of Somerset and Lady Gass DCVO

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Why Physics?

Are you the sort of person who wants to ask questions about the world around you, who wants to be able to answer the really big questions about the universe and everything?

Do you find how the world works fascinating? Do you want to try and help solve the problems facing us today; like how can we get enough energy to keep things working? How can we make life easier for people with physical disabilities? How can we have more efficient sports equipment?

Do you enjoy applying your mind to solving problems? Do you enjoy carrying out investigations that need imaginative and logical thinking? If so, then a study of Physics beyond school will help you to achieve these things and the next step for you will be to study A level Physics.

Physics is suitable for those who want to study a relevant worthwhile qualification to either complement their maths/sciences or as a separate science to support and balance a more artistic selection of subjects. Not only is it a fascinating subject, A level Physics is a very high regarded 'facilitating subject' allowing entry onto almost any course at Russell Group universities. Studying Physics opens up one of the widest ranges of future career options.

A Student's Perspective

“At A level you will experience topics familiar from GCSE, but at a far deeper level allowing you to understand and enjoy the topic. The supportive classroom atmosphere makes the subject even more enjoyable than GCSE. Although I find some parts quite challenging, it is very rewarding to understand the subject and the theories.”