PHYSICS (Option)

Examination Board: Edexcel

Assessment Pattern: All students who study Physics at GCSE will obtain a final grade based upon two examinations taken at the end of the second year.

The grade awarded will be from A* - G.

Course Description: The course covers all the main aspects of Physics. It includes a wide range of experimental work which is designed to support learning as well as develop practical skills.

There are five areas of content

1. Forces and motion
2. Electricity
3. Waves
4. Energy resources and energy transfer
5. Solids, liquids and gases
6. Magnetism and electromagnetism
7. Radioactivity and particles

Key subject aims The main aim of this course is to help students appreciate the practical nature of Physics by acquiring experimental and investigative skills based on correct and safe laboratory techniques.

Much of the work carried out involves experimental work, designing and planning experimental procedures, taking accurate measurements, analyzing evidence, and drawing conclusions in order to evaluate this evidence.

Students will also acquire a systematic body of knowledge and the skills needed to apply this in new and changing situations in many domestic, industrial and environmental contexts. They will learn how to select, organize and present information learnt clearly and logically, using the appropriate scientific terms and conventions.

Physics has strong links with mathematics and teaches students how to apply the core concepts of mathematics to practical situations. This means students should be fairly confident of their mathematical skills if they are going to succeed with this subject.

Physics GCSE is essential for anyone considering careers in Engineering, and is also a useful subject to support careers in Astronomy, Biotechnology, Computing and Meteorology. It is also strongly recommended for those considering a career in the Armed Forces.

For further information see: Mr Hollingworth, Sr Lopes or Mr Headford