Head of Department: Mrs J Hardaker

PHYSICS

Aims of the Course

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- To stimulate an interest in, and care for, the environment in relation to the impact of Physics and its applications
- To encourage individual learning
- To stimulate students and create a sustained interest in Physics so that the study of the subject is exciting, enjoyable and satisfying
- To develop an awareness of the relationship of Physics to everyday life, and of the interaction of Physics with engineering and technology
- To encourage an experimental approach to Physics, and link this approach both with the theoretical and quantitative aspects of the subject.

Types of Learning Experience:
A high level of commitment is required from all students throughout the course. Students work individually or in small groups and teaching uses a wide variety of methods but also draws on students' experiences and knowledge. Practical work forms an important element of the course.

Link Subjects*:*
Physics may be taken with any other subject but has strong links with mathematics, chemistry, biology and technology.

Progressing to Higher Education:
Physics is a challenging and rewarding subject which is relevant and important for life in a technologically advanced society. It is a recognised Advanced level subject for entry to University and Higher Education. There are many degrees available combining Physics with, for example, mathematics, astronomy, electronics and music.

YEAR 12

Particles and Radiation, Waves, Mechanics and Materials, and Electricity

Assessment
Two written examinations of 1 hr 30 minutes each. Consisting

YEAR 13

Further Mechanics and Thermal Physics, Fields, Nuclear Physics and Turning Points in Physics.

Assessment
Three written examinations of 2 hr each. Consisting of, multiple choice, short and long questions.

Investigative Skills Assessment

Experimental skills in Physics.

Assessment
Six experiments assessed on a pass or fail basis against the Common Practical Assessment Criteria CPAC.

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Experimental skills in Physics.

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Six experiments assessed on a pass or fail basis against the Common Practical Assessment Criteria CPAC.

***Entry requirements*:**

A minimum of 5 grades at GCSE 9-4 including English and Maths. Students must obtain a minimum of grade 6 in two Sciences and level 6 in Maths.