

Why Physics?

Students who study Physics will be well received should they wish to continue their careers in engineering, robotics, dentistry, veterinary science, electronics, computing, medicine, geology, mathematics, astronomy, design, architecture, material science and chemistry.

The rigorous approach that physics requires stands students in good stead should they choose to use their Physics qualification in a more general way. Law, Accountancy and Business Management courses will welcome students of AS and A-Level Physics because of their problem-solving skills.

Who knows? You may even wish to continue your career in Physics itself!

Why Malbank Sixth Form College?

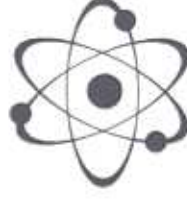
The Science Department at Malbank Sixth Form College offers the finest education to students who are accepted into the science courses. Students are given every opportunity possible to succeed in their studies.

Students study each science subject for nine hours per fortnight in well-equipped laboratories, in small groups (8-15 students), with experienced and dedicated staff. Students are taught, rather than "lectured to", thus meaning that students are always fully supported and encouraged and get immediate assistance in all areas of their study. As with all courses at Malbank Sixth Form College, once a student has been accepted Malbank will guarantee full support right up to the end of the course.

PHYSICS



MALBANK SCHOOL
AND
SIXTH FORM COLLEGE



'EDEXCEL' PHYSICS AT MALBANK SIXTH FORM COLLEGE

Introduction

The AS level course and A Level course occupy nine hours per fortnight, the AS Level for one year, the A-Level for two years.

The students will follow the AS Level course in year one of the Sixth Form and will continue in year two with the A Level course (called A2) if they so wish.

AS + A2 = A Level

The course is a modular course (that is, a small unit of work is learnt and then examined).

Course Requirement

Most student will have a grade B (or higher) in GCSE Physics, or BB in Dual Science. A grade B in GCSE Mathematics is an advantage. Of course, as always at Malbank Sixth Form College, all cases are treated individually on their own merit, but students with lower grades than these will find the work difficult.

Course Content

AS Level

Unit 1:

Mechanics and Radioactivity

Unit 2:

Electricity and Thermal Physics

Unit 3:

A choice of one from the following four topics:
Astrophysics; Solid Materials; Nuclear and Particle Physics and Medical Physics.

A2 Level

Unit 4:

Waves and Our Universe

Unit 5:

Electric, Magnetic and Gravitational Fields and Forces

Unit 6:

This is a synoptic unit which draws together the knowledge, understanding and skills learned throughout the A level course.

Assessment

Each Unit has its own test, taken soon after completion of that unit. These Unit

Tests comprise short answer and structured questions. Because of this modular approach, students are able to follow their progress through the course and, if necessary, students may choose to re-take any unit tests.

Practical skills are assessed separately, in a one and a half hour test after Unit 3 (for both AS and A-Level candidates) and another one and a half hour test after Unit 5 (for A-Level students only). Again these tests may be re-taken if necessary.

