

DEPARTMENT

PHYSICS

TITLE OF COURSE

PHYSICS

LEVEL

ADVANCED HIGHER

RECOMMENDED ENTRY LEVELS:A pass in Higher Physics preferably at A or B
Recommended - pass in Higher Mathematics**COURSE CONTENT**

The course consists of four mandatory units as follows

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|--|---------------------------------|
| 1. Rotational Motion and Astrophysics (AH) | 8 SCQF credit points (40 hours) |
| 2. Quanta and Waves (AH) | 8 SCQF credit points (40 hours) |
| 3. Electromagnetism (AH) | 4 SCQF credit points (20 hours) |
| 4. Investigating Physics | 4 SCQF credit points (20 hours) |

The **Investigating Physics unit** involves the individual accumulation, analysis and presentation of information through experimental work.

This is written up as a report not exceeding 2000 words in length. Pupils are expected to do a large proportion of this work on their own, and must be prepared to do extra work outwith timetabled classes.

METHODOLOGY:

Theory consists of lectures and tutorials.

Practical work is carried out in a laboratory under the supervision of a member of the Physics department.

ASSESSMENT:**Internally Assessed:**

End of Unit Assessment A level of attainment must be achieved in an end of unit test in each of the three units, Rotational Motion and Astrophysics, Quanta and Waves and Electromagnetism.

This assessment will be updated by the SQA for 2017-18.

Externally Assessed

End of Course Exam: this is an examination consisting of short answer and restricted response questions. The question paper will assess scientific inquiry skills and analytical thinking skills. A total of 100 marks is allocated to the exam.

Report of a Physics Investigation: a total of 30 marks is allocated to the investigation. (23% of the total marks)

The grade awarded for the course depends on total marks obtained for the written question paper and the investigation.