

Physics

Advanced Higher



Why take this course?

The purpose of the course is to further develop learners' curiosity, interest and enthusiasm for physics in a range of contexts, bordering on the limits of current knowledge. The skills of scientific inquiry and investigation are developed throughout the course. One of the objectives of the course is to encourage and develop independence of thought and initiative.

The course aims to enable you to:

The relevance of physics is highlighted by the study of the applications of physics in everyday and extraordinary contexts. This will enable learners to become scientifically literate citizens, able to review the science-based claims they will meet. Advances in physics mean that our view of what is possible is continually being updated. This course allows learners to deepen their understanding of the processes behind scientific advances, and thus promotes awareness that physics involves interaction between theory and practice.

To succeed in this course, you need...

Students should have a pass in Higher Physics preferably at a B grade or above. It is also important to have a pass in Higher Maths.

Course structure and content

The course comprises four units:

- **Rotational Motion and Astrophysics**
- **Quanta and Waves**
- **Electromagnetism**
- **Investigating Physics**

Course Assessment

- Component 1 – question paper 100 marks
- Component 2 – project 30 marks
- Total marks 130

Where might this course take me?

Advanced Higher physics is a premium sought after qualification by employers, universities and industry. It opens the door to further qualifications at University including Science, Engineering, Medicine, Architecture. It allows access to numerous apprenticeships including electrician and electrical engineer. Along with Advanced Higher Maths this is a recommended course for entry to engineering courses at most Scottish Universities.