



## A Level in Physics

Location	Marple College
Course Type	College 16-18
Department	A Levels
Start Date	Monday 2nd September 2024
Course Code	MFQ-ML3L-1113

## Course Overview

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Physics is crucial to understanding the world around us, the world inside us, and the world beyond us. It is the most basic and fundamental science. It's an exciting and fast-moving science with new discoveries being made every week, particularly in astronomy and particle physics. We will build on the core principles you have learned at GCSE and develop and extend your skills and knowledge of this fascinating subject.

## Course Requirements

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PLEASE NOTE - YOU MUST APPLY FOR 3 A LEVELS

Standard A Level entry requirements: 5 x GCSE grade 5's or above (must include Maths and English Language). However, certain subjects may have additional entry criteria, which can be found below:

Additional Entry Requirements:

A Level Physics will require grade 6 in GCSE Maths

A Level Physics will require grade 6 in GCSE Physics or 66 in Combined Science.

This subject must also be studied alongside at least one other science-based (Maths, Biology, Chemistry, Physics) course.

## What You Will Learn

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Your experimental skills will develop through a range of core practical's that will allow you to gain the practical skills endorsement" at the end of the second year. We offer extra support sessions in addition to lessons, booklets and other resources to enable you to make progress. Students have progressed from here to study Physics and a variety of Engineering degrees at many top universities including Manchester, Oxford and Cambridge. Students can attend extracurricular Physics lectures at Manchester and surrounding areas. Day visits are offered to a range of Engineering events in the North West. Students have participated in trips to large Physics facilities such as Jodrell Bank in Cheshire and CERN in Geneva. Learners are given a chance to participate in the British Physics Olympiad."

## Assessment

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100% of the course is exam based, students will sit 3 papers. Paper 1 - 34% Paper 2 - 34% Paper 3 - 32%

## Progression

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Physics is an essential subject for engineering and will be very useful in a range of careers from architecture to Zoology. Employers value the logic and problem solving skills it develops. Careers include all facets of engineering, energy and power provision, environmental consultancy, medical technologies, research and development, financial and IT sectors, telecommunications and teaching.

## Career Options

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All facets of engineering, Energy and power provision, Environmental consultancy, Medical technologies, Research and development, Financial and IT sectors, Telecommunications, Teaching

## Mandatory Units

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As well as studying key concepts such as radiation and particle physics, the nature of waves, electricity and the nature of forces, energy and mechanics, you will also be introduced to the concepts of circular and simple harmonic motion, the thermal properties of materials and the nature of ideal gases and molecular kinetic theory. In addition, you will study the concepts of fields, from gravitational, electrical through to magnetic as well as an in-depth knowledge and understanding of nuclear physics with an option module that includes medical physics, engineering physics and astrophysics.

## Contact Details

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For further information please contact T: 0161 886 7070 or E: [info@trafford.ac.uk](mailto:info@trafford.ac.uk)

## Disclaimer

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Although every care has been taken to ensure that the information contained within this document is accurate, there may be changes to this programme and provision. We will endeavour to keep prospective and current students updated where appropriate and when the information becomes available.