

A Level Physics

Why Physics?

Physics encompasses the study of the universe from the largest galaxies to the smallest subatomic particles. Physics is crucial to understanding the world around us, the world inside us, and the world beyond us. Moreover, it's the basis of many other sciences, including chemistry, oceanography, seismology, and astronomy (and can be applied to biology or medical science). All are easily accessible with an education in physics. Physics challenges our imaginations with concepts like relativity and string theory, and it leads to great discoveries, like computers and lasers, that lead to technologies which change our lives—from healing joints, to curing cancer, to developing sustainable energy solutions.

What are the entry requirements?

The minimum entry requirements are two grade 6s in GCSE sciences. This could be in separate sciences, or combined science. You will also need at least a 5 in Maths.

What does the course involve?

At Meadowhead School the course of study is **OCR A level Physics A** .

[\(http://www.ocr.org.uk/qualifications/as-a-level-gce-physics-a-h156-h556-from-2015/\)](http://www.ocr.org.uk/qualifications/as-a-level-gce-physics-a-h156-h556-from-2015/)

There will be 3 exams at the end of A level (Y13)

What will I be taught?

The following topics will be taught :

Module 1: Development of practical skills

Module 2: Foundations of physics

Module 3: Forces and motion

Module 4: Electrons, waves, and photons.

Module 5: Newtonian world and astrophysics

Module 6: Particles and medical physics

Progression

Anything anywhere – physics is the most sought after A-Level by universities and employers alike. This is not surprising as it was rated the joint hardest A Level along with Chemistry. Physicists are problem solvers. Their analytical skills make physicists versatile and adaptable so they work in interesting places. You can find physicists in industrial and government laboratories, on college campuses, in the astronaut corps, and consulting on TV shows.

An education in physics is also a great foundation for careers in:

- Journalism
- Law
- Finance
- Medicine
- Engineering
- Computer Science
- Astronomy
- Biology

Anything else I need to know?

Taking A level maths will help you with the more mathematical aspects of physics. We also recommend taking maths because if you want to study any aspects of engineering or physics at university, then A level maths will be essential.

Where can I find out more information?

Please speak to Mr Bates.