

RMGS

Science - PHYSICS

A LEVEL

What are the aims of the course?

A Level Physics has been developed for students who wish to continue with a study of Physics after GCSE. Such a course will prepare students to progress into further education, to follow courses in Physics, Engineering, one of the other sciences or related subjects, or to enter employment where a knowledge of physics would be useful.

What does it involve?

- Motion
- Forces in action
- Work, energy and power
- Materials
- Newton's laws of motion and momentum.
- Charge and current
- Energy, power and resistance
- Electrical circuits
- Waves
- Quantum physics
- Thermal physics
- Circular motion
- Oscillations
- Gravitational fields
- Astrophysics
- Capacitors
- Electric fields
- Electromagnetism
- Nuclear and particle physics
- Medical imaging

How is it assessed?

Modelling physics (01) 100 marks 2 hours 15 minutes written paper (37%)

Exploring physics (02) 100 marks 2 hours 15 minutes written paper (37%)

Unified physics (03) 70 marks 1 hour 30 minutes written paper (26%)

Practical endorsement in physics (04)* (non-exam assessment)

Are there any specific entry requirements?

- Students must have a minimum of a grade A in Physics and a minimum B grade in both Biology and Chemistry. In addition an A grade in Mathematics is required.
- Students who followed the Core Science GCSE and Additional Science GCSE pathways must have obtained at least two GCSE grade As.
- If students have a Level 2 BTEC, a Distinction and an A grade in Maths are required.

Why is it a useful qualification?

The course is a sound preparation for degree-level and other higher education courses in physics and related sciences, engineering, and medicine as well as chemical engineering and related programmes.