LARKMEAD School

Faringdon Road Abingdon

Physics

A Level Specification: OCR H566

Contact: Miss C Kennedy

What will I study?

Year 1

- Development of practical skills in Physics.
- Foundation of Physics (quantities and units, scalars and vectors, measurements).
- Forces and motion (motion, forces, work, energy and power, materials, Newton's laws).
- Electrons, waves and photons (Charge and current, energy, power and resistance, electrical circuits, waves, quantum physics).

Year 2

- Newtonian world and astrophysics (Thermal physics, circular motion, oscillations, gravitational fields, astrophysics).
- Particles & medical physics (Capacitors, electric fields, electromagnetism, nuclear & particle physics, medical imaging).

How will I Learn?

In physics we use a variety of teaching methods, including:

- Working through examples
- Problem solving
- Practical activities
- Research
- Discussion
- Independent reading

What skills will I need?

- Self-motivation
- Logical thinking
- Enjoying problem solving
- Determination
- An interest in physics!
- Good algebra skills

You do not need to have studied separate sciences at GCSE.

How will I be assessed?

Paper 1 Modelling Physics (37%) 2h15min
Paper 2 Exploring Physics (37%) 2h15min
Paper 3 Unified Physics (26%) 1hr30min

Practical Endorsement - Teacher assessed, exam board moderated. Reported separately to A-level grade – pass/fail only.

Careers and Progression

Physics is recognised as a high-status qualification essential for many careers in engineering as well as physics. It is also highly valued in supporting other scientific disciplines, as well as aiding entry into careers in very many areas including finance and management amongst others.