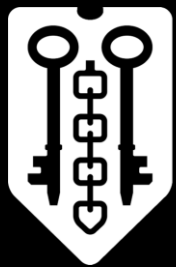


Sixth Form Induction Evening



Pool Hayes
Academy



Physics



Course content

Content is in six modules, each divided into key topics:

Module 1 – Development of practical skills in physics

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

Course Two Year Plan

- Year 12
 - **Module 2 – Foundations of physics**
 - Physical quantities and units
 - Making measurements and analysing data
 - Nature of quantities
 - **Module 3 – Forces and motion**
 - Motion
 - Forces in action
 - Work, energy and power
 - Materials
 - Newton's laws of motion and momentum
 - **Module 4 – Electrons, waves and photons**
 - Charge and current
 - Energy, power and resistance
 - Electrical circuits
 - Waves
 - Quantum physics
- Year 13
 - **Module 5 – Newtonian world and astrophysics**
 - Thermal physics
 - Circular motion
 - Oscillations
 - Gravitational fields
 - Astrophysics and cosmology
 - **Module 6 – Particles and medical physics**
 - Capacitors
 - Electric fields
 - Electromagnetism
 - Nuclear and particle physics
 - Medical imaging

Future Prospects

Aerospace industry
Aerospace engineer, airline pilot

Space industry
Astrophysicist, astronomer, astronaut

**Acoustic
engineer**

Radiographer

**Research and
development**

Oceanographer

Meteorologist

Tough, but rewarding

Intuitive and intriguing

Maths would support Physics

Have enjoyed myself for two years

Practical work is interesting and allows you to understand the topics more

