This course will appeal to those students who:

Are willing to think around problems

Have an interest in all of the science subjects

Enjoy the challenge of using scientific knowledge in new situations

Enjoy carrying out practical science.

office of occur		
Foundations of Physics		
Physical quantities and units	♦ Scalars and vectors	Measurements
Forces and Motion		
Motion	♦ Forces in action	♦ Work, energy and power
♦ Materials	Newton's laws of motion and	♦ Momentum
Newtonian World and Astrophysics		
Thermal physics	♦ Circular motion	◆ Oscillations
♦ Gravitational fields	♦ Astrophysics	
Electrons, Waves, and Photons		
<ul> <li>Charge and current</li> </ul>	Energy, power and resistance	◆ Electrical circuits
♦ Waves	Quantum physics	
Particles and Medical Physics		

- Capacitors
- Nuclear and particle physics

## • Electric fields

Medical imaging

Electromagnetism

## Practical Skills in Physics

Develops practical and investigative skills within contexts encountered during Physics. This practical skills unit is teacher

Level 6 or above in both GCSE Physics and GCSE Combined Science, or level 6 or above in GCSE Physics. level 6 in GCSE Mathematics is also required.

# course prepare me for?

Students with AS or A level Physics have a very valuable qualification that can form the basis for any degree in a scientific discipline. Physics combines well with Maths as an excellent basis for a degree in any of the engineering disciplines: Electrical, Electronic, Mechanical, Civil, Chemical. It is also a good subject for Medicine and Architecture. The numerical, analytical and problem-solving skills you develop in Physics are recognised as very useful for careers in Accountancy and Computing.