

# A Level Physics

Examination Board: OCR

Contact Teacher: Mr Aston and Mr Edwards



## Course Details and Assessment

The A Level Physics course has a strong focus on problem solving and practical skills. Over the A2 course, pupils will cover a diverse range of content - from classical mechanics to quantum theory - and investigate how these are applied to areas of science such as cosmology and medical physics. Through investigative work pupils will develop a deep understanding of key principles and apply this to new contexts.

**The course will cover the following topic areas:**

AS Course	Full A Level
1 - Development of practical skills in physics 2 - Foundations in physics 3 - Forces and Motion 4 - Electrons, waves and photons	1 - Development of practical skills in physics 2 - Foundations in physics 3 - Forces and Motion 4 - Electrons, waves and photons 5 - Newtonian world and astrophysics 6 - Particles and medical physics

**The course is assessed in the following way:**

Students who wish to achieve qualifications in physics must complete all the assessments below:

AS Level			A Level		
Assessment	Outline	Grading	Assessment	Outline	Grading
1 hour 30 minutes written paper	Breadth in physics (o1) (assesses modules 1 to 4)	50%	2 hours 15 minutes written paper	Modelling physics (o1) (assesses modules 1,2,3 and 5)	37%
1 hour 30 minutes written paper	Depth in physics (o2) (assesses modules 1 to 4)	50%	2 hours 15 minutes written paper	Exploring physics (o2) (assesses modules 1,2,4 and 6)	37%
			1 hour 30 minutes written paper	Unified physics (o3) (assesses modules 1 to 6)	26%
			Non exam assessment	Practical endorsement in physics (o4)	pass or fail

Career/Higher Education	Entry Requirements
University courses Physics Mathematics Engineering Astrophysics Particle physics Chemical engineering Biomedical engineering Radiography Optometry and many, many more.	If trilogy science was studied at GCSE: <ul style="list-style-type: none"> <li>• Two Science GCSEs grade 5 (including Physics units at 5 or above)</li> </ul> If separate sciences were studied at GCSE: <ul style="list-style-type: none"> <li>• A grade 5 in Physics</li> <li>• A grade 5 in either Biology or Chemistry</li> <li>• A grade 6 in Mathematics is preferable, grade 5 essential.</li> </ul> A Grade 6 or above in English would be an advantage.

*“Not only is the Universe stranger than we think, it is stranger than we can think.” **Werner Heisenberg***