

Key Stage 4 Subject Overview: NEW GCSE PHYSICS

Course Information: The course offers the chance to gain understanding of energy, electricity, particle model of matter, atomic structure, forces, waves, magnetism, electromagnetism and space physics.

Course Structure:

PHYSICS PAPER 1		PHYSICS PAPER 2
What is assessed	Topics 1-4 Energy, Electricity, Particle model of matter and atomic structure	Topics 5-8: Forces, Waves, magnetism, electromagnetism and space physics
Course weighting	50% (1hour 45 minutes) - 100 marks	50% (1hour 45 minutes) - 100 marks

Key Stage 4 Timeline

Year 9			Year 10			Year 11		
Autumn	Spring	Summer	Autumn	Spring	Summer	Autumn	Spring	SUMMER
Energy Required experiments	Electricity Particle model of matter Required experiments	Atomic structure Required experiments	REVISION PHYSICS PAPER 1 MOCK EX-AM	Forces Required experiments	Waves Required experiments	Magnetism and electromagnetism Space Physics Required experiments	REVISION	GCSE EXAMS

Assessment Criteria

8	6	4
<p>Apply content knowledge to a range of events .</p> <p>Analyse data to draw conclusion .</p> <p>Evaluate arguments and justify own opinion based on scientific evidence .</p> <p>Recall and rearrange equations to perform calculations and use answers from calculations to make recommendations .</p> <p>Make recommendations based on scientific evidence .</p> <p>Assess the limitation of scientific evidence.</p> <p>Apply practical skills to examination questions.</p>	<p>Applying knowledge from each topic to everyday events.</p> <p>Plan experiments to investigate scientific ideas.</p> <p>Compare results and processes.</p> <p>Interpret models and evidence to show how scientific ideas have changed over time.</p> <p>Recall and rearrange equations to perform calculations.</p> <p>Apply practical skills to examination questions.</p>	<p>Explain all the concepts above.</p> <p>Carry out investigations to investigate hypothesis.</p> <p>Interpret graphs and tables.</p> <p>Carry out calculations using data sheet</p> <p>Make and interpret models to show scientific ideas.</p> <p>Recall and use equations.</p> <p>Recall practical skills in examinations.</p>