Key Stage 4 Subject Overview: 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** Written exam—multiple choice, structured, closed short answer and open responses.	**50% (1hour 45 minutes) - 100 marks** Written exam—multiple choice, structured, closed short answer and open responses.

Key Stage 4 Timeline

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

Assessment Criteria

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