

# Key Stage 4 Subject Overview: GCSE PHYSICS

Course Information: The course offers the chance to gain understanding of the use and transfer of energy , waves , radiation and application of Physics .

Course name: **PHYSICS**

Exam Board: AQA

Subject Code: 4403

## Course Structure:

Unit title	Unit 1	Unit 2	Unit 3	Unit 4
Description	PHYSICS 1	PHYSICS 2	PHYSICS 3	INVESTIGATIVE SKILLS ASSESSMENT
Course weighting	25% (written paper 1 hour)	25%( written paper 1 hour)	25% (written paper 1 hour)	25% (two written assessments plus one or two lessons of

## Key Stage 4 Timeline

Year 10			Year 11		
Autumn	Spring	Summer	Autumn	Spring	Summer
<b>PHYSICS 1</b> Energy transfer by heating, using energy, electrical energy and generating electricity.	<b>PHYSICS 1</b> waves and electromagnetic waves.  <b>PHYSICS 2</b> Motion	Forces  <b>CONTROLLED ASSESSMENT</b>	<b>PHYSICS 2</b> Work, energy, momentum, current electricity,  Mains electricity, radioactivity and energy from the nucleus	<b>PHYSICS 3</b> Medical application of physics, using physics to make things work and using magnetic fields to keep things moving.  <b>REVISION</b>	<b>EXAMS</b>

## Assessment Criteria

A*	A	C
Apply content knowledge to a range of events . Analyse data to draw conclusion . Evaluate arguments and justify own opinion based on scientific evidence . 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.	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. Rearrange equations to perform calculations.	In each topic be able to: 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.