

## What are the aims and intentions of this curriculum?

Continuation of the GCSE AQA Physics course. Developing students understanding of key scientific ideas and their ability to investigate scientifically and have an in depth understanding of their findings.

Term	Topics	Knowledge covered	Skills developed	Assessment
<b>Autumn 1</b>	Energy	Energy transfers, types of energy and calculations, reducing energy losses	Use of standard form and significant figures. Graph plotting and analysis. Using and rearranging equations Drawing and annotating scientific diagrams Specific Heat Capacity and Heat Loss required practical tasks.	Written assessment using GCSE exam questions on topics covered so far in years 9 and 10
<b>Autumn 2</b>	Particles	Particle models of matter, state changes, pressure	Practical skills - planning investigations using terminology for variables Collecting valid results and observations	
<b>Spring 1</b>	Electricity	Circuit symbols, charge, current, resistance, Ohm's Law	Practical skills - planning and carrying out investigations and plotting graphs of results (especially in Ohm's Law investigation) Setting up electrical circuits and recording accurate measurements Ohm's Law experiments	Written assessment using GCSE exam questions on topics covered so far in years 9 and 10
<b>Spring 2</b>	Electricity	IV characteristics, wiring a plug, fuses, national grid, transformers.	Practical skills - observation skills in identification practicals Analysing and evaluating results Wiring a plug Required practical - IV characteristics	
<b>Summer 1</b>	Magnetism	Magnets, magnetic fields, wires, the motor effect	Practical skills - planning investigations using correct terminology for variables. Understanding accuracy and reliability. Collecting valid results. Plotting and analysing graphs.	EBI work - developing skills and knowledge covered over the year so far that are shown to be areas of weakness, based on QLA from assessment
<b>Summer 2</b>	Practical skills Improving learning from year 10 topics	EBI work - developing skills and knowledge covered over the year so far that are shown to be areas of weakness, based on QLA from assessment	EBI work - developing skills and knowledge covered over the year so far that are shown to be areas of weakness, based on QLA from assessment	