

Year 10

P5 - Forces

Contact & Non-contact Forces
Resultant Forces
Hooke's Law
Motion Graphs
Momentum
Stopping Distances
Newton's Laws
Moments

P4 - Atomic Structure

Nuclear Radiation
Half-life
Uses/Risks Of Radiation
Fission & Fusion

P3 - Particle Model of Matter

States Of Matter
Density
Specific Latent
Pressure

P2 - Electricity

Static
Current & Charge
Potential Difference
Resistance & Resistors
Series & Parallel Circuits
Mains Electricity
National Grid

P1 - Energy

Energy Stores & Systems
Energy Calculations
Specific Heat Capacity
Power
Conservation & Efficiency
Renewable & Non-renewable Resources



Knowledge	Attributes / Character	Skills	Experiences
<p>P1 - Energy P2 - Electricity P3 - Particle Model of Matter P4 - Atomic Structure</p>	<p>Confidence Students are given opportunities to develop their oracy and literacy in method writing and presentations. This helps them to talk like a scientist.</p> <p>Organisation Students will need to complete practical work in groups as well as produce methodical procedures for what they are doing. Homework is set on a regular basis and helps reinforce the knowledge students have learnt, students need to ensure it is complete. Extra support is provided to students in the form of booster/intervention sessions. Students should make time to attend these sessions, to help maximise their progress.</p> <p>Resilience After mock exams, DIRT lessons are embedded into the curriculum to help students close gaps and make progress. Students will also be attempting 2 step calculations for the first time, which require greater problem solving skills.</p> <p>Empathy Students will learn how different countries utilise resources in different ways such as power stations and levers.</p>	<p>Use 2 step calculations Conduct investigations Interpret graphs and analyse graphs using reciprocals Translate information between graphical and numeric form. Use the symbol for proportionality, \propto Use appropriate apparatus to measure and observe relationships Recognise and use expressions in decimal form Use ratios and proportional reasoning Use of standard form Use of trigonometry/pythagoras Written and oral communication</p>	<p>Alton Towers visit Cadbury World visit Science Club</p>