

Year 11

P8 - Space Physics
Solar System
Life Cycle Of A Star
Red-shift

P7 - Magnetism & Electromagnetism
Magnets
Electromagnets
Motor Effect & Loudspeakers
Generator Effect & Microphones
Transformers

P6 - Waves
Types Of Waves
Measuring Waves
Electromagnetic Waves
Ripple Tank
Stationary Waves
Reflection & Refraction
Ultrasounds
Seismic Waves
Black Body Radiation
Lenses



Knowledge	Attributes / Character	Skills	Experiences
<p>P5 - Forces P6 - Waves P7 - Magnetism and Electromagnetism P8 - Space Physics (Triple Only)</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>Oxford University visit Model rockets Aspire programme</p>