



Curriculum Plans - Key Stage 4 Physics

Please find below a detailed outline of the curriculum covered in Physics through Year 10 in Key Stage 4.

Year 10

Block 1	Block 2	Block 3	Block 4	Block 5	Block 6	Block 7
Unit 2- Forces and Motion	Unit 3 – Forces and Pressure	Unit 4 – Forces and Energy	Unit 5 - Thermal Effects • Moving	Unit 7 – Rays and Waves	Unit 8 - Electricity	Unit 9 - Revision Revision of Year
 Speed, velocity and acceleration Motion graphs Recording motion Freefall Forces in balance Force, mass and acceleration Friction Force, weight and gravity Action and reaction Momentum Vectors Moving in circles 	Forces and turning effects Centre of mass More about moments Stretching and compressing Pressure Pressure in liquids Hydraulic systems Pressure from the air Gas pressure and volume Pressure problems	Work and energy Energy transformation Calculating PE and KE Efficiency and power Energy for electricity Energy resources How the world gets its energy	particles Temperature Expanding solids and liquids Heating gases Thermal conduction Convection Thermal radiation Liquids and	 Light rays and waves Reflection Refraction Total internal reflection Refraction calculations Lenses Electromagn etic waves Sending and sorting 	Electric charge Electric fields Current in a simple circuit Potential difference Resistance Ohm's Law Series and parallel circuits Electrical energy and power Living with electricity	10 Physics Units RAG Rating Summative Assessment AFL and self- evaluation
End of Unit Assessment	End of Unit Assessment	End of Unit Assessment	End of Unit Assessment	End of Unit Assessment	End of Unit Assessment	End of Unit Assessment
		Data Average for Autumn Report		Data Average for Spring Report		Data Average for Summer Report
Autumn			Spring		Summer	