



Curriculum Plans – Year 10 – Physics – Academic Year 2023/24

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

BLOCK	1	2	3	4	5	6	7
Dates	28th August - 27th September (5 weeks)	2nd October - 27th October (4 weeks)	6th November - 15th December (6 weeks)	3rd January - 2nd February (5 weeks)	12th February - 22nd March (6 weeks)	2nd April - 26th April (4 weeks)	6th May - 21st June (7 weeks)
Topics	Measurements and units (Unit 1) <ul style="list-style-type: none"> Review of Unit 1 Practical skills Forces and motion (Unit 2) <ul style="list-style-type: none"> 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 Practical skill 	Forces and pressure (Unit 3) <ul style="list-style-type: none"> Forces and turning effects Centre of gravity More about moments Stretching and compressing Pressure Pressure in liquids Pressure from the air Gas pressure and volume Pressure problems Practical skills 	Forces and energy (Unit 4) <ul style="list-style-type: none"> Work and energy Energy transformation Calculating PE and KE Efficiency and power Energy for electricity Energy resources How the world gets its energy Practical skills 	Thermal effects (Unit 5) <ul style="list-style-type: none"> Moving particles Temperature Expanding solids and liquids Heating gases Thermal conduction Convection Thermal radiation Liquids and vapours Specific heat capacity Latent heat Practical skills Waves and Sounds (Unit 6) <ul style="list-style-type: none"> Transverse and longitudinal waves Wave effects Sound waves Speed of sound and echoes Ultrasound Practical skills 	Rays and Waves (Unit 7) <ul style="list-style-type: none"> Light rays and waves Reflection Refraction Total internal reflection Refraction calculations Lenses Electromagnetic waves Sending and sorting Practical skills 	Electricity (Unit 8) <ul style="list-style-type: none"> 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 Practical skills 	Revision (Revision of Year 10 Units) <ul style="list-style-type: none"> Forces and Motion Forces, Pressure and Energy Thermal Effects Waves, Sounds and Rays Electricity experiments End of Y10 Assessment Revision of Y10
Assessments	Unit 1 and 2 Assessment	Unit 1-3 Assessment	Unit 1-4 Assessment	Unit 1-6 Assessment	Unit 1-7 Assessment	Unit 1-8 Assessment	End of Y10 Assessment