



Curriculum Plans – Year 8 - Science – Academic Year 2023/24

Please find below a detailed outline of the curriculum covered in *Science* through Year 8 in Key Stage 3.

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	<p>Forces (Phy Unit 4)</p> <ul style="list-style-type: none"> Speed Taking accurate measurements Distance-time graphs Acceleration and speed-time graphs Velocity Acceleration Presenting results in tables and graphs Practical skills <p>Plants (Bio Unit 6)</p> <ul style="list-style-type: none"> Why we need plants Photosynthesis Water and minerals Stomata Microscopy and magnification <p>States of Matter (Chem Unit 5)</p> <ul style="list-style-type: none"> The states of matter revisited Diffusion Brownian motion Density Gas pressure Practical skills 	<p>Sound (Phy Unit 5)</p> <ul style="list-style-type: none"> Types of waves Sound, vibrations, and energy transfer Detecting sounds Loudness and the decibel scale Loudness, amplitude, and oscilloscope Pitch and frequency Making simple calculations Echoes Practical skills <p>Material Properties (Chem Unit 6)</p> <ul style="list-style-type: none"> Atoms Elements and their symbols Explaining differences between metals and non-metals Compounds Making compounds 	<p>Material Properties (Chem Unit 6)</p> <ul style="list-style-type: none"> Naming compounds and writing formulae Oxides, hydroxides, sulfates, carbonates and chlorides Filtering and decanting Evaporation and simple distillation Fractional distillation Chromatography Separating metals from their ores Practical skills <p>Diet (Bio Unit 7)</p> <ul style="list-style-type: none"> Food A balanced diet Deficiencies <p>Digestion (Bio Unit 8)</p> <ul style="list-style-type: none"> The digestive system Enzymes Using enzymes 	<p>Light (Phy Unit 6)</p> <ul style="list-style-type: none"> What is light? How do we see things? Reflection Making measurements- laws of reflection Refraction: air and water Refraction: air and gas Dispersion Colour Presenting conclusions: more on colour Lasers Practical skills <p>Circulation (Bio Unit 9)</p> <ul style="list-style-type: none"> Blood Anaemia The circulatory system Diet and fitness Microscopy 	<p>Respiration and Breathing (Bio Unit 10)</p> <ul style="list-style-type: none"> Lungs Respiration and gas exchange Anaerobic respiration Smoking and lung damage <p>Material changes (Chem Unit 7)</p> <ul style="list-style-type: none"> Chemical reactions Word equations More chemical formulae Corrosion reactions Using reactions to identify chemicals Practical skills <p>Magnetism (Phy Unit 7)</p> <ul style="list-style-type: none"> The properties of magnets Magnetic fields Electromagnets Identifying and controlling variables Using electromagnets Practical skills 	<p>Reproduction and Fetal Development (Bio Unit 11)</p> <ul style="list-style-type: none"> Reproduction Fetal development Twins Adolescence <p>Drugs and Disease (Bio Unit 12)</p> <ul style="list-style-type: none"> Drugs Disease Defense against disease Boosting your immunity <p>Revision of Y8 topics</p>	<p>Revision of Y8 topics</p> <p>End of Year 8 Assessment</p> <p>Project Work</p> <ul style="list-style-type: none"> Planning skills Recording skills Analysis skills Conclusions and improvements Reporting skills
Assessments	Block 1 topics assessment	Block 1 and 2 topics assessment	Block 1-3 topics assessment	Block 1-4 topics assessment	Block 1-5 topics assessment		End of Year 7 Assessment



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Academic Theme	Planning for Tomorrow	The World around us	Better Together	The Working World	Opportunities for Everyone	Keep it Green, Keep it Clean	Healthy Body, Healthy Mind
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