



## Science Department Curriculum Map KS3 Science September 2023

Curriculum Intent			
<i>Our students will experience the nature of scientific processes through scientific enquiry and develop an understanding of the world we live in.</i>			
	Autumn Term	Spring Term	Summer Term
<b>Year 7 Content</b>	Working scientifically Biology Big Idea 8 part 1: Organisms Physics Big Idea 1 part 1: Forces Chemistry Big Idea 5 part 1: Matter	Physics Big Idea 2 part 1: Electromagnets Chemistry Big Idea 6 part 1: Reactions Biology Big Idea 9 part 1: Ecosystems	Chemistry Big Idea 7 part 1: Earth Physics Big Idea 3 part 1: Energy Revision and assessment fortnight STEM Activities
<b>Year 7 Skills</b>	Safety in science Planning investigations Recording data Analysing patterns Evaluating data		
<b>Year 7 Key Points</b>	Baseline assessment in first week back Interim assessments on all Big Idea Part 1s	Interim assessments on all Big Idea Part 1s	Interim assessments on all Big Idea Part 1s End of year assessment on all content covered this year
<b>Year 8 Content</b>	Biology Big Idea 10 part 1: Genes Physics Big Idea 1 part 2: Forces Chemistry Big Idea 7 part 2: Earth Physics Big Idea 4 part 1: Waves	Biology Big Idea 8 part 2: Organisms Physics Big Idea 2 part 2: Electromagnets Chemistry Big Idea 5 part 2: Matter Physics Big Idea 4 part 2: Waves	Biology Big Idea 9 part 2: Ecosystems Chemistry Big Idea 6 part 2: Reactions Revision and End of Year Assessment STEM Activities Physics Big Idea 3 part 2: Energy Biology Big Idea 10 part 2: Genes
<b>Year 8 Skills</b>	Graph skills Extended writing Literacy Exam technique	Graph skills Extended writing Literacy Exam technique	Graph skills Extended writing Literacy Exam technique
<b>Year 8 Key Points</b>	Interim assessments on all Big Idea Part 1/2s	Interim assessments on all Big Idea Part 2s	Interim assessments on all Big Idea Part 2s End of Year Assessment on all content covered this year Cultural Capital Trip to Marwell Zoo
<b>Year 9 Content</b>	Consolidation, revision and working scientifically through several investigative projects: Practical skills Celebrating All Scientists Forensics Microbes Energy	B1a Cell structure B3a Enzymes (B3.4 - B3.7) C1 Atomic Structure C2 The Periodic Table P1 Conservation and dissipation of energy	B3b Digestive system (B3.1-3.3) B9 Respiration P2 Energy transfer by heating Revision and assessment fortnight  Consolidation and working scientifically



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<b>Year 9 Skills</b>	Investigative, presentation and practical skills Effective revision skills and exam technique Skills in working scientifically and application of knowledge to real-world situations	Required Practicals covered: <ul style="list-style-type: none"><li>• RP B1 Microscopy (using a microscope, rearranging equations)</li><li>• RP B3 Enzymes</li></ul>	Required Practicals covered: <ul style="list-style-type: none"><li>• RP B3 Food tests</li><li>• P2 Specific Heat capacity (calculating gradients on a graph)</li></ul> Investigative and working scientifically skills
<b>Year 9 Key Points</b>	Celebrating Scientists project links to CC and SMSC KS4 Baseline assessment late October 2023 covering all topics covered in Y7 and 8	Interim block tests on topics covered	Interim block tests on topics covered  Assessment fortnight in June 2024 End of Y9 test covering topics all KS4 topics covered to date