



Curriculum Plans - Year 9 - Science - Academic Year 2023/24

Please find below a detailed outline of the curriculum covered in Science through Year 9 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	Plants (Bio Unit 13) Photosynthes is Plant growth Flowers Pollination Seed dispersal Germination Practical skills Material Properties (Chem Unit 8) Atomic structure The nucleus Protons, electrons and the periodic table Group 1 elements Group 2 elements Group 7 elements Practical skills	Adaptation and Survival (Bio Unit 14)	Energy Flow (Bio Unit 15) Food webs Energy flow Decomposers Changing populations Facing extinction Maintaining biodiversity Energy Changes (Chem Unit 9) Energy changes in chemical reactions Endothermic and exothermic chemical reactions Practical skills Electricity (Phy Unit 9) Electrostatic phenomena Dangers of electrostatic phenomena Digital sensors Electric circuits Current Parallel circuits Models of electric circuits How components affect the current Voltage Energy and Power Practical skills	Human Influences (Bio Unit 16) Air pollution Water pollution Saving rainforests The Reactivity Series (Chem Unit 10) The reactions of metals with oxygen The reactions of metal with water The reactions of metal with water The reactions of metal with series Metal displacemen t reactions Extracting metals from their ores Practical skills	Variation and Classification (Bio Unit 17) Using keys What makes us different? Chromosomes Investigating inheritance Selective breeding Darwin's theory of evolution Moving genes Using genes Making Salts (Chem Unit 11) Making salts - acids and metals, acids and carbonates, and acids and alkalis Fertilisers Practical skills Energy (Phy Unit 10) Hot and cold Conduction, Convection and Radiation Cooling by evaporation The world's energy needs Fossil fuels Generating electricity Renewable energy sources Energy for the future	Rates of reaction (Unit 12) Concentration and reaction rate Temperature and reaction rate Surface area and reaction rate Catalysts and reaction rate Practical skills Revision of KS3 Revision of Y7 topics Revision of Y8 topics Revision of Y9 topics	Revision of KS3 Revision of Y7 topics Revision of Y8 topics Revision of Y9 topics End of KS3 Assessment Practical Skills, Measureme nts, Units and Exam Technique
Assessm ents	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 KS3 Assessment