



Curriculum Plans - Year 9 - Science

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	August - September (5 weeks)	October (4 weeks)	November - December (6 weeks)	January - February (5 weeks)	February - March (6 weeks)	April (4 weeks)	May - 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 Preciodic trends Practical skills	Adaptation and Survival (Bio Unit 14) Adaptation Extreme adaptations Survival Studying the natural world Forces (Phy Unit 8) Pressure The effects of pressure Pressure in liquids Using pressure in liquids Pressure in liquids Pressure in liquids Calculating moments Calculating moments Centre of mass and stability Practical skills	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 acid The reactions	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)	Revision of KS3 Revision of Y7 topics Revision of Y8 topics Revision of Y9 topics End of KS3 Assessment Practical Skills, Measurements, 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