



Curriculum Plans - Year 7 - Science - Academic Year 2023/24

Please find below a detailed outline of the curriculum covered in Science through Year 7 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	Introduction to Science Lab safety Bunsen burner Practical skills Planning skills Scientific thinking/ questions Variables Evaluation and conclusions Results and graphs Microscopy and magnification States of Matter (Chem Unit 1) The particle theory of matter Boiling, evaporating and condensing Melting, freezing, and subliming Energy and changes of state Using particle theory to explain dissolving Practical skills	Forces (Phy Unit 1) Introduction to forces Balanced forces Friction Gravity Air resistance Tension and upthrust Practical skills Plants (Bio Unit 1) Leaves, stems, and roots Tropism	Humans (Bio Unit 2) The human skeleton Muscles and movement Organ systems The circulatory system Studying the human body Extending lives Energy (Phy Unit 2) What is energy? Energy from the Sun Energy types Energy transfer Conservation of energy Gravitational potential energy and kinetic energy Elastic potential energy Elastic potential energy Haterial Properties (Chem Unit 2) Introducing elements Metal elements Metal elements Metal alloys Material properties Polymers Practical skills	The Earth and Beyond (Phy Unit 3)	Material changes (Chem Unit 3) Acids and alkalis The pH scale and indicators Neutralisation Antacids Practical skills The Earth (Chem Unit 4) The structure of the Earth Igneous rocks Sedimentary rocks Sedimentary rock formation Metamorphic rocks Soil Fossils Estimating the age of the Earth Practical skills Living things in their environment (Bio Unit 4) Habitats Food chains Feeding ourselves Changing the planet Preventing extinction Obtaining energy Growing fuels	Variation and classification (Bio Unit 5) • Variation • Species • Classificatio n • Vertebrates • Classificatio n of plants Revision of Year 7 Topics	Revision of Year 7 topics End of Y7 Assessment Project Work Planning skills Recordin g skills Analysis skills Conclusi ons and improve ments Reportin g skills
Assess ments	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