

Year 7 Curriculum Overview 2025-26

Year 7	Autumn 1 (7 weeks)		Autumn 2 (7 weeks)	Spring 1 (5 weeks)		Spring 2 (6 weeks)	Summer 1 (6 weeks)	Summer 2 (7 weeks)	
Topics	• Introduction to labs and scientific skills. • Cells (RP1) • Skeletal and Muscular system • Introduction to forces	Baseline test	• Particle model, states of matter. • Forces continuation. • Pure substances and separating mixtures. (RP2)	• Observing waves, sound waves, light waves • Ecosystems and interdependence	Exam Week	• Acids and alkalis	• Plant and human Reproduction • Earth and its atmosphere	• Space: Solar systems • Review of key practical skills	EoY assessment
Assessment	EoU test for the topics listed above, including practical based question.	1 Hour assessment to	EoU test for the topics listed above, including practical based question.	EoU test for the topics listed above, including practical based question.	1 Hour assessment covering topics from	EoU test for the topics listed above, including practical based question.	EoU test for the topics listed above, including practical based question.	EoU test for the topics listed above, including practical based question.	1 Hour assessment covering all topics from September
Skills and AO's	Use a light microscope to observe and draw cells. AO1, AO2, AO3 Scientific Attitudes Experimental skills and investigations Analysis and evaluation. Measurement		Building models, separating mixtures using chromatography, filtration, evaporation. Practical in speed and forces (link to maths skills). AO1, AO2 and AO3 Scientific Attitudes Experimental skills and investigations Analysis and evaluation Measurement	Practical in sound waves and variation (link to maths skills) AO1, AO2 and AO3 Scientific Attitudes Experimental skills and investigations Analysis and evaluation Measurement		Practical in reflection and refraction of light, mixing colours. Practical in acids and alkalis, neutralisation and making salts. AO1, AO2 and AO3 Scientific Attitudes Experimental skills/ investigations	Flower dissection. Building models. AO1, AO2 and AO3 Scientific Attitudes Experimental skills and investigations Analysis and evaluation Measurement	Building models. AO1, AO2 and AO3 Scientific Attitudes Experimental skills and investigations Analysis and evaluation Measurement	
Enrichment	Science club every week on Wednesday after school		Science club every week on Wednesday after school	Science club every week on Wednesday after school		Science club every week on Wednesday after school.	Science club every week on Wednesday after school	Science club every week on Wednesday after school	

Skills and AOs	To develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry, and physics. Develop understanding of the nature, processes, and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them. To be equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future. Students should be able to: Pay attention to objectivity and concern for accuracy, precision, repeatability, and reproducibility, to understand that scientific methods and theories develop as earlier explanations are modified to take account of new evidence and ideas, together with the importance of publishing results and peer review and evaluate risks. Gain Experimental skills and process investigations as well ask questions and develop a line of enquiry based on observations of the real world, alongside prior knowledge, and experience, make predictions using scientific knowledge and understanding, select, plan and carry out the most appropriate types of scientific enquiries to test predictions, including identifying independent, dependent and control variables, where appropriate. Use appropriate techniques, apparatus, and materials during fieldwork and laboratory work, paying attention to health and safety, make and record observations and measurements using a range of methods for different investigations; and evaluate the reliability of methods and suggest possible improvements, apply sampling techniques. Students should apply the skills required for analysis and evaluation, apply mathematical concepts and calculate results, present observations and data using appropriate methods, including tables and graphs, interpret observations and data, including identifying patterns and using observations, measurements and data to draw conclusions, present reasoned explanations, including explaining data in relation to predictions and hypotheses and evaluate data; showing awareness of potential sources of random and systematic error. Students will need to understand and use SI units and IUPAC (International Union of Pure and Applied Chemistry) chemical nomenclature, use and derive simple equations and carry out appropriate calculations and undertake basic data analysis including simple statistical techniques. AO1: Demonstrate knowledge and understanding of scientific ideas; scientific techniques and procedures. AO2: Apply knowledge and understanding of scientific ideas; scientific enquiry, techniques, and procedures. AO3: Analyse information and ideas to: interpret and evaluate; make judgments and draw conclusions; develop and improve experimental procedures.
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