

Applied Science Single Award Curriculum Overview

	Y12	
	Unit 1	Unit 2
Half Term 1	Physics: Waves characteristics The electromagnetic Spectrum	Learning Aim A Analysing solutions
Half Term 2	Physics: Uses of regions of the electromagnetic spectrum Biology: Cell ultrastructure, eukaryotic and Prokaryotic cells, cell specialisation.	Learning Aim B Chromatography of mixtures Learning Aim C Analysing solutions
Half Term 3	Physics: Refraction and fibre optics Biology: Epithelial and endothelial tissue, atherosclerosis and COPD Chemistry: Atomic Structure	Learning Aim D Reflecting on progress and evaluating strengths and weaknesses
Half term 4	Physics: Diffraction and diffraction gratings Biology: Muscle Tissue, muscle action, nervous tissue Chemistry Amount of substance, Structure and Bonding. Trends in physical properties	Completed- focus now on Unit 1 in this lesson time.
Half term 5	Physics: Stationary waves Biology: Action potentials and neurotransmitters Chemistry	

Half term 6	Investigative Science Variables Planning valid investigations Analysing data Evaluating processes and data.	
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	Y13	
	Unit 3	Unit 12
Half Term 1	Developing skills in planning, carrying out, analysing and evaluating scientific investigations through the study of: Factors affecting the rate of enzyme action	Learning Aim A Pathogens and infectious diseases; dietary and environmental diseases; genetic and degenerative diseases; progression of disease over time
Half Term 2	Developing skills in planning, carrying out, analysing and evaluating scientific investigations through the study of: Factors affecting the rate of diffusion	Learning Aim B Methods by which infectious diseases can be spread; methods by which infectious diseases can be prevented from spreading; management of infectious diseases
Half Term 3	Developing skills in planning, carrying out, analysing and evaluating scientific investigations through the study of: Plant growth	Learning Aim C Methods of treatment; access to and acceptance of treatment
Half term 4	Developing skills in planning, carrying out, analysing and evaluating scientific investigations through the study of: Energy from fuels	Learning Aim D Defence Mechanisms (Specific and non-specific); cell mediated and humoral responses
Half term 5	Developing skills in planning, carrying out, analysing and evaluating scientific investigations through the study of: Power in electrical circuits	Final review and report writing

Half term 6		
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