

Year 9 Curriculum Overview [2021-2022]

Subject – Science

Spring Term	Knowledge & Understanding			Literacy Skills Opportunities for developing literacy skills	Employability Skills [if any]	Assessment Opportunities
	Composites	Components [includes understanding of KEY concepts & subject specific vocab]	Formal Retrieval [if any]			
HT3	Special Materials	<ul style="list-style-type: none"> Polymers Ceramics Composite materials Problems with materials Recycling 	<ul style="list-style-type: none"> The atom & metal properties 	<ul style="list-style-type: none"> Science Reports – Active and Passive Voices 	<ul style="list-style-type: none"> Cool jobs – explosive pursuits 	Assessment point 3 Examination Genetics, Combustion & the atmosphere, Forces & Motion, Evolution
	Forcefields	<ul style="list-style-type: none"> Non-contact forces Electrical circuits electromagnets 	<ul style="list-style-type: none"> Energy, electricity 	<ul style="list-style-type: none"> WS equations and graphs 	<ul style="list-style-type: none"> Space travel 	
HT4	Understanding the effects of drugs and diseases	<ul style="list-style-type: none"> Pathogens Communicable diseases Non-communicable diseases The circulatory system Effects of drugs Immunity Antibiotics 	<ul style="list-style-type: none"> Microorganisms 	<ul style="list-style-type: none"> Command Words 	<ul style="list-style-type: none"> Immunologist Surgeon 	
	Chemistry transition to KS4	<ul style="list-style-type: none"> Isotopes Ions Rates of Reaction Equations Equilibria 	<ul style="list-style-type: none"> Material properties 	<ul style="list-style-type: none"> Short answers (2 or 3 marks) 	<ul style="list-style-type: none"> The chemistry of paint, sculptures and restoration 	

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HT5	Physics transition to KS4	<ul style="list-style-type: none"> • Cause and Effect • Models • Wave properties • Energy resources (P3) 	<ul style="list-style-type: none"> • variables 		<ul style="list-style-type: none"> • What do physicists do? • Particle physicists • Meteorologist • Astronomers • The race for renewable energy-job roles in the energy industry 	End of KS3 mini-Linear Assessment
HT6	<ul style="list-style-type: none"> • KS3 Biology & transition to KS4 	<ul style="list-style-type: none"> • How scientists work • Cells & organ systems • Ecosystems • Diseases 	<ul style="list-style-type: none"> • Working Scientifically 	<ul style="list-style-type: none"> • Extended writing and cohesion 	<ul style="list-style-type: none"> • Health education – Public communication 	
HT6	<ul style="list-style-type: none"> • KS3 Chemistry 	<ul style="list-style-type: none"> • States of matter • Mixtures • Separation techniques • The periodic table 	<ul style="list-style-type: none"> • Drugs and diseases 	<ul style="list-style-type: none"> • Science in the news (carbon capture) 	<ul style="list-style-type: none"> • Energy 	
	<ul style="list-style-type: none"> • KS3 Physics 	<ul style="list-style-type: none"> • Energy • Forces • Waves • Fields 	<ul style="list-style-type: none"> • Using data 	<ul style="list-style-type: none"> • Ws scientific models (labelling models) 		