

Year 7 Curriculum Overview [2021-2022]
Subject – Science

Autumn 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]			
HT1	Cells	<ul style="list-style-type: none"> • Cells • Life Processes • Organ systems (cells, tissues, organs, systems) • Microscopes 	<ul style="list-style-type: none"> • Organs and MRS GREN 	<ul style="list-style-type: none"> • History of the Microscope 	<ul style="list-style-type: none"> • Donors 	Assessment Point 1 Class assessment on Cells and Separating techniques and skills
	Clear understanding of mixtures and separating techniques	<ul style="list-style-type: none"> • Different separating techniques • Laboratory safety • Key solubility terms • Method writing skills • 	<ul style="list-style-type: none"> • Separating Substances 	<ul style="list-style-type: none"> • Solubility key words, hazards, solubility. Method writing 	<ul style="list-style-type: none"> • Working as a scientist in a lab • Sewage works 	
HT2	Forces	<ul style="list-style-type: none"> • Different Forces • Mass and Weight • Springs • Pressure • SI Units • Balanced and Unbalanced 	<ul style="list-style-type: none"> • Forces pushes and pulls KS2 	<ul style="list-style-type: none"> • Understanding abbreviations for common units 	<ul style="list-style-type: none"> • Mechanical Engineer 	Assessment point 2: Summative assessment on Separating techniques, cells and Forces
	Animal reproduction	<ul style="list-style-type: none"> • Reproductive organs • Gestation and birth • Puberty 	<ul style="list-style-type: none"> • Organelles 	<ul style="list-style-type: none"> • IVF – making notes 	<ul style="list-style-type: none"> • Working as a vet • Working as a midwife • Conservation Worker • Zoologist 	

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Spring Term	<ul style="list-style-type: none"> Knowledge & Understanding 			Literacy Skills Opportunities for developing literacy skills	Employability Skills [if any]	Assessment Opportunities
	Composites	<ul style="list-style-type: none"> Components [includes understanding of KEY concepts & subject specific vocab] 	Formal Retrieval [if any]			
HT3	<ul style="list-style-type: none"> The particle model 	<ul style="list-style-type: none"> How do scientists think? States of matter Changes of state Diffusion Water pressure Gas pressure 	<ul style="list-style-type: none"> Using the particle model to explain the separating techniques 	<ul style="list-style-type: none"> Devising Hypotheses 	<ul style="list-style-type: none"> Training and working as a Nano scientist Meteorology 	Assessment Point 3 Class Assessment: Separating techniques, cells, forces, The particle Model and Animal Reproduction
	Energy	<ul style="list-style-type: none"> Energy transfers and stores Fuels 	Forms of Energy (KS2)	Energy released by different fuels - Summarising	The race for renewable energy – job roles in the Energy industry	
HT4	Muscles and Bones	<ul style="list-style-type: none"> Muscles Breathing The circulatory system The skeleton Drugs 	Organ systems	Forming sentences	Working as a physiotherapist Personal Trainer Sports Scientist Prosthetist	Assessment Point 4 Examination: Separating techniques, cells, forces, The particle Model, Animal Reproduction and Energy
	Atoms, elements and molecules	<ul style="list-style-type: none"> The earth's elements Metals and non-metals Chemical reactions (metals and acids – squeaky pop test) Problems with elements 	<ul style="list-style-type: none"> States of matter How particles behave 	Facts and opinion	<ul style="list-style-type: none"> Car Engineers Analytical Chemist Geologists Financial Analysts Mining Engineers Chemical Engineers 	

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HT5	Electricity	<ul style="list-style-type: none"> • Switches and currents • Series and parallel circuits • Changing the current • Using electricity 	Energy forms	Using tables	What is an apprenticeship? <ul style="list-style-type: none"> • Apprenticeships at the National Grid 	Assessment Point 5 Summative Assessment: Separating techniques, cells, forces, The particle Model, Animal Reproduction, Energy, Muscles and bones, Atoms, elements and molecules, electricity Ecosystems
	Ecosystems	<ul style="list-style-type: none"> • Variation • Adaptations • Energy Transfers 	Adaptations of plants and animals -KS2	Paragraphs	<ul style="list-style-type: none"> • Environmental Planners • Environmental Geneticist • Zoologist • Veterinary Nurse • Wildlife Biologist 	
HT6	Sound	<ul style="list-style-type: none"> • Making sounds • Moving sounds • Detecting sounds • Comparing waves 	Practical skills	Remembering	<ul style="list-style-type: none"> • Sound engineer and audiologists 	

	Acids and Alkalis	<ul style="list-style-type: none">• Hazards• Indicators• Acidity and Alkalinity• Neutralisation	Reactions – reactants and products	Writing titles	<ul style="list-style-type: none">• Working as an analytical chemist• The Chemical Industry – Quality Control Technicians.	
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