Year 8 Curriculum Overview [2021-2022] Subject – Science

Autumn Term	Knowledge & Understanding			Literacy Skills Opportunities for	Employability Skills	Assessment Opportunities
reim	Composites	Components [includes understanding of KEY concepts & subject specific vocab]	Formal Retrieval [if any]	developing literacy skills	[if any]	opportunities
HT1	Laboratory safety/ Acids and Alkalis	 Laboratory safety Equipment Hazards Indicators Acidity and Alkalinity Neutralisation 				Assessment Point 1 Class Assessment: Acids and alkalis and Food and nutrition.
	Food and Nutrition	NutrientsTesting FoodsDigestionAbsorption and diffusion	FitnessMusclesBreathing	Weighting and bias – Scientific reports	Dietitian	
HT2	Electricity	 Switches and currents Series and parallel circuits Changing the current Using electricity 	Energy forms	Using tables	What is an apprenticeship? • Apprenticeships at the National Grid	Assessment point 2 Food and Nutrition, Acid and alkalis and Electricity
	Ecosystems and Plant growth	 Variation Adaptations Classification and Biodiversity Types of reproduction Pollination Germination and growth – prac (peas link to ks4). Plant adaptations 	Human reproductive organs	Structuring paragraphs	 Environmental Planners Environmental Geneticist Zoologist Veterinary Nurse Wildlife Biologist 	Ecosystems and plant growth.

Year 8 Interim Curriculum Overview [2021-2022] Subject – Science

Spring Term	Knowledge & Understanding			Literacy Skills Opportunities for	Employability Skills	Assessment Opportunities
	Composites	Components [includes understanding of KEY concepts & subject specific vocab]	Formal Retrieval [if any]	developing literacy skills	[if any]	Opportunities
НТЗ	Combustion and the atmosphere	 Burning fuels Oxidation The early atmosphere to present day Global warming 	AtomsElementsMolecules	 Using adjectives 'Describing materials' 	Architect – designing bridges.	Assessment point 3 Food and Nutrition, Acid and alkalis, Electricity, Ecosystems and plant growth, Combustion, Fluids
	Fluids	 The particle Model Pressure in Fluids Floating and Sinking Drag 	Solids liquids and gases	 Presenting information 'The Bends' 	Scientists in extreme conditions, deep sea divers, astronauts, arctic.	
HT4	Breathing and Respiration	 Aerobic Respiration Gas Exchange system Anaerobic respiration 	DigestionDiffusion	How to show cause and effect in sentences.	Sport Science	Assessment Point 4 Acids and Alkalis, Food and Nutrition, Electricity, Combustion and the atmosphere, Fluids, Ecosystems and Plant growth, Breathing.
	Metals and their uses	 Metal properties Corrosion Metal Reactivity Pure metals and alloys 	AtomsElementsMolecules	Using adjectives 'Describing materials'	Architect – designing bridges.	

Year 8 Interim Curriculum Overview [2021-2022] Subject – Science

Summer Term	Knowledge & Understanding			Literacy Skills Opportunities for	Employability Skills	Assessment Opportunities
	Composites	Components [includes understanding of KEY concepts & subject specific vocab]	Formal Retrieval [if any]	developing literacy skills	[if any]	Opportunities
HT5	Energy Transfers	 Temperature Changes Transferring Energy Power and Efficiency Paying for Energy 	Energy storesBreathing & Respiration	WS Accuracy and Precision	Energy Production Insulation installation	Assessment Point 5 Examination Acids and Alkalis, Food and Nutrition, Electricity, Combustion and the atmosphere, Fluids, Ecosystems and Plant growth, Breathing and Metals and their uses
	Microorganisms	 Unicellular or multicellular Microscopic fungi Bacteria Protoctists Decomposers and carbon cycle 	CellsThe PeriodicTable	Using modal verbs to show degrees of certainty.	What is a microbiologist?	
HT6	The Periodic Table	 Elements Chemical properties and formula Mendeleev's table 	Atoms and elements	Using sentences to explain ideas.	Make up scientist	
	Light	LightReflectionRefractionColour	Waves – sound(Yr 7)	Preparing and presenting	Working in the film industry	