Year 10 Curriculum Overview [2022-2023] Subject – Construction and the Built Environment

Autumn Term	Knowledge & Understanding			Literacy Skills Opportunities for	Employability Skills [if any]	Assessment Opportunities
	Composites	Components [includes understanding of KEY concepts & subject specific vocab]	Formal Retrieval [if any]	developing literacy skills		
HT1 and HT2 Unit 5	Tools	 Setting-out tools Hand tools Equipment Fixings 	Use of tools	 Writing to inform. Writing for an audience. Keywords- manufacture, sustainability, principles, technique, synthetic, hazards. 	 Planning Risk- management Team working Numeracy Independence Presentation skills Communication ICT skills Organising 	 Final assessment based on portfolio work Identify /outline / justify/ explain / evaluate the selection of tools and the safe use/storage.
Exploring Carpentry and Joinery Principles and Techniques	Glues	Natural glueSynthetic glue	Use of glue			
	Materials	HardwoodSoftwoodMan-made wood	 Properties of materials 			
	Health and safety	 Risk assessment Hazards Control measures 	 Risks and hazards 			

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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	[ii diiy]	
HT3 and HT4 Unit 2 Scientific and Mathematical Applications for Construction	Effects of force	 Nature of forces/identifying forces Effects of forces on materials Hooke's law Determining effect of forces 	ForcesMaterials	 Writing to inform. Writing for an audience. Keywords- force, temperature, state, mathematical, scientific, materials. 	 Planning Numeracy Independence Presentation skills Communication ICT skills Organising 	 Final assessment based on portfolio work Identify/ describe /discuss/evaluate the effects of force and temperature on different construction
	Changes in temperature	 Changes in temperature Scientific principles Effects of temperature on materials 	TemperatureMaterials			
	Algebraic and graphical methods	 Applications Rearranging formulae Solving equations Plotting graphs Accuracy of calculations 	AlgebraGraphs			 materials. Plot / apply / solve / justify algebraic and graphical methods.
	Mensuration	AreasVolumes	AreaVolume			
	Trigonometry	 Applications Pythagoras Relationships Accuracy 				

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Autumn Term	Knowledge & Understanding			Literacy Skills Opportunities for	Employability Skills [if any]	Assessment Opportunities
	Composites	Components [includes understanding of KEY concepts & subject specific vocab]	Formal Retrieval [if any]	developing literacy skills	[in any]	opportunities
HT5 and HT6 Unit 1	Performance requirements	Strength and stability		 Writing. Independent reading. Comprehension Keywords- Strength, stability, performance requirements, safety, sustainability, resistance. 	 Planning Independence Presentation skills Communication ICT skills Research 	• Final examination – Year 11
Construction Technology	Fire resistance	MaterialsCompartmentsBarriers				
	Thermal	PurposeTypesLocation				
	Sound	 Purpose Types Location Provision 				
	Weather	PurposeMaterialsLocation				
	Sustainability	PurposeMethodsMaterials				

Low-rise construction	Cavity wall
	• SIPS
	Cross-wall
	Timber framed construction