

Subject: Yr10&11 Tech-Award Construction level 1/2

Date	Outline of Teaching Focus	Links to Prior Learning/Interleaving	Links to Functional Skills	Pre, Way Point and End Point Assessments All assessments will be differentiated to match the Students FS exam.	CORE Links Respect Honesty Trust Integrity Kindness	Opportunities for Development in Cultural Capital	Links to Therapeutic Provision
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Autumn 1 (7 Weeks) Course explanation – Take Students through all three components of course, how they are assessed and expectations for grading. Identify long term objective of course and PS16 opportunities (Incl Careers) Component 1 Construction technology Objective A Low Rise Construction requirements. Students will work through gaining, digesting and understating the following theory topics: Performance requirements of Buildings Structural load Strength and stability Specification of materials Fire protection Thermal insulation and retention. Students will also complete a series of practical tasters with emphasis around the 2 available topics for Components 2 (Joinery and Bricklaying) Tasters will also	Component 1 will provide the foundation knowledge required for Component 3. Students will understand basic structural requirements Although not starting Component 2 Learning Outcome A (Risk Assessment) foundations will be laid such as Hazard identification, people at risk, control measures and	All elements will link to English reading – students will be required to identify key information through reading. All elements will relate to Mathematics – Area shape and space. Mathematical processes weight and measures	Pre assessment Discussions held to identify any prior learning or practical experience in construction related activities Basic quiz to baseline knowledge Way Point Quizzes used as starters for lessons to revisit previously learnt lesson. End assessment Students will undertake an end of module exam in the format of their final assessment exam for Component 1. A range of questions will be covered which are all derived from the terms learning.	All aspects of CORE will be visited through discussions around trade integrity and liability. Will be further reinforced through the Health and Safety aspects relating to respect, trust and integrity. Kindness will be explored during collaborative learning and team activities.	Speakers from the industry could provide talks on various aspects of the building trades. Open Doors run site visits during Autumn which will be applied for. This will give students the opportunity to visit working building sites. Students will get the opportunity to complete another visit in year 11.	
series of practical tasters with emphasis around the 2 available topics for Components 2 (Joinery and	Component 2 Learning Outcome A (Risk Assessment) foundations will be laid such as <i>Hazard</i>		exam for Component 1. A range of questions will be covered which are all			



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Weeks) A cc th Ca Ca Ca Ca Ca Ca Ca Ca Ca C	protection Objective A2 sustainability Purpose of Sustainabile construction How to achieve sustainable construction Benefits and drawbacks Objective A3 Common Structural Forms for Low Rise Construction Structural forms Component 2 Learning objective A1 Be able to understand hazards and risks for safe production of a practical outcome Risk Assessments Hazard identification Risk Rating People at risk Control measures PPE	The principles of sound insulation relate to thermal insulation Component A2 will interleave with Health Safety and Environmental studies covering the same content.	All elements will link to English reading – students will be required to identify key information through reading. All elements will relate to Mathematics – including area shape and space. Mathematical processes.	Pre assessment Mix and match cards to test understanding of insulators Way Point Quizzes used as starters for lessons to revisit previously learnt lesson. End assessment Students will undertake an end of module exam in the form of their final assessment exam for Component 1. A range of questions will be covered which are all derived from the terms learning. Component 2 will be assessed through a marked workbook ascertaining students understanding on the topics visited.	All aspects of CORE will be visited through discussions around trade integrity and liability. Will be further reinforced through the Health and Safety aspects relating to respect, trust and integrity. Kindness will be explored during collaborative learning and team activities.	Potential visit to Sustainable buildings eg Leicster Eco House. Contact Lee Jowett at Leicester Sustainable Schools. – provides additional resources and visit suggestions relating to A2	



CHRISTMAS HOLIDAYS

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Spring 1 (6 Weeks)	Component 1 Students will continue to work through the theory elements. Objective B Explore how Substructures are constructed B1 Preconstruction Work Identify the Desk Based preconstruction work required. Understand the Site-based preconstruction work Students will continue to work through the theory elements. Hazards and risk associated with groundworks How groundworks are constructed Construction detailing of foundations and substructures Benefits and drawbacks of foundations and substructures Be able to sketch and annotate sub-structures Component 2 A3 Tools and	Obective B1/B2 will be heavily interleaved with the learning required for Health Safety and Environmental qualification. The learning taking place will form some of the required understanding, this will be readdressed towards the end of KS4 Elements of B2 feed into Component 3 where students are expected to be able to sketch substructures. This will aid in developing their drawing skills	All elements will link to English reading – students will be required to identify key information through reading. All elements will relate to Mathematics – area shape and space.	Pre assessment Think pair share discussion around elements of building sites. (B1 Spot the hazard activity B2 Way Point End assessment Students will undertake an end of module exam in the form of their final assessment exam for Component 1. A range of questions will be covered which are all derived from the terms learning.	All aspects of CORE will be visited through discussions around trade integrity and liability. Will be further reinforced through the Health and Safety aspects relating to respect, trust and integrity. Kindness will be explored during collaborative learning and team activities.	Visit or discussion from industry experts, EG site manager.	Working together to inspire and achie
	Materials Students gain and understanding of the different tools and materials specific to their chosen trade.	All parts of Component A3 link to A1 – Risk assessments and dynamic risk assessment. This will be reinforced all through the practical element.				Industry expert (EG Stew Crompton visit and demonstration.	



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Students start to practice using tools for chosen trade correctly and safely	This will also start to introduce B1 as Students will complete basic			
safely	jointing.			



<u>Spring 2 (5</u>	Component 1 Students will	Elements of C1 feed into	All elements	Pre assessment	All aspects of CORE	Construction site visit	1
<u>Weeks</u>	continue to work through the	Component 3 where	will link to	mix and match	will be visited	highlighting	
	theory elements.	students are expected to	English	exercise	through discussions	superstructure	
		be able to sketch	reading –	identifying and	around trade	elements.	
	Objective C Explore how	substructures. This will	students will	linking wall type	integrity and liability.		
	superstructures are	aid in developing their	be required to	with definitions/			
	constructed	drawing skills	identify key	description	Will be further		
	C1 Superstructures - Walls		information		reinforced through		
	 Understand function and 		through	Way Point	the Health and Safety		
	features of different		reading.	Produce labelled	aspects relating to		
	walls			sketches for each	respect, trust and		
	Benefits and drawbacks	Component will link to	All elements	wall type when	integrity.		
	for architects, builders	skills built in Art and	will relate to	provided with			
	and users of above	Design curriculum.	Mathematics -	name only.	Kindness will be		
	Be able to sketch	Links made to	area shape and		explored during		
	different types and	Component 2 wall	space.		collaborative		
	features of walls	construction.		End assessment	learning and team		
	C2 Superstructures - Floors			Students will	activities.		
	 Understand the function 			undertake an end			
	construction and			of module exam in			
	detailing of floors			the form of their			
				final assessment			
				exam for			
	Component 2 objective B			Component 1. A			
	able to produce a practical	During this unit, Students		range of questions			
	construction outcome.	will continue to recall		will be covered			
	B1 Jointing and	tools and materials		which are all			
	Incorporation of materials	cementing learning. A3		derived from the			
	Students will focus on	They will start to be		terms learning.			
	types of joining of	introduced to A2					
	materials.	Measuring and marking					
	Students will focus on	out.					
	fixings/fittings/joint	A1 will also continue to be					
	types.	embedded and solidified.					
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<u>Summer 1 (5</u>	Component 1 Students will	Elements of C1 feed into	All elements	Pre Assessment	All aspects of CORE	Construction site visit	
weeks)	continue to work through the	Component 3 where	will link to	mix and match	will be visited	highlighting	
	theory elements.	students are expected to	English	exercise	through discussions	superstructure	
		be able to sketch	reading –	identifying and	around trade	elements.	
	Objective C Explore how	substructures. This will	students will	linking roof type	integrity and liability.		
	superstructures are	aid in developing their	be required to	with definitions/			
	constructed	drawing skills	identify key	description	Will be further		
	C3 - Superstructures -		information		reinforced through		
	Roofs		through	Way Point	the Health and Safety		
	 Understand the function, 		reading.	Produce labelled	aspects relating to		
	construction and			sketches for each	respect, trust and		
	detailing of roods		All elements	roof type when	integrity.		
	Be able to sketch and		will relate to	provided with			
	annotate types and		Mathematics -	name only.	Kindness will be		
	detailing.		area shape and		explored during		
	8		space.		collaborative		
	Component 2 Outcome A2	Links with A3 as Students	•	End Point	learning and team		
	Measuring Marking and	will continue to repeat		Students will	activities.		
	setting out (Brick and Join)	and solidify. B1 will be		undertake an end			
	Develop knowledge and	repetition and it will		of module exam in			
	understanding of different	introduce elements B2		the form of their			
	marking and measuring tools	and B3 as accuracy will be		final assessment			
	Students will focus on	of importance.		exam for			
	measuring, marking and	•		Component 1. A			
	planning.	Understanding drawings		range of questions			
	Reading and	and being able to produce		will be covered			
	interpretation of	drawings will be linked to		which are all			
	-	Component 3		derived from the			
	drawings	Construction and		terms learning.			
		Design.		terms learning.			
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Summer 2 (6 Weeks)	Component 1 Students will continue to work through the theory elements. Objective D Understand the work of the construction Industry D1 The types of work undertaken in the construction Industry • Know the types of work the industry undertakes and know examples of each type of work. D2 The Construction industry and the build		All elements will link to English reading – students will be required to identify key information through reading. All elements will relate to Mathematics – area shape and space.	Pre assessment Pre component quick fire quiz, identify civil engineering work as baseline Way Point End Point Mock test covering all of the years learning.	All aspects of CORE will be visited through discussions around trade integrity and liability. Will be further reinforced through the Health and Safety aspects relating to respect, trust and integrity. Kindness will be explored during collaborative learning and team	Visit to Civil engineering works such as bridges, railways or tunnels.	
	 environment Know different transportation systems Understand flood defences 				activities.		
	Component 2 Objective B2 Accuracy in construction/B3 Dimension checks on final outcome. Students will focus on accuracy using correct tools to achieve this. Students will learn how to check dimensions and tolerances.	All of Component 2 will be solidified and students will complete their Assessment.					
	Assessment for component 3						
			Summer 1	<u>Holiday</u>			

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Autumn 1	Component 1 - Recover and	Revisit students	All elements	Pre assessment	All aspects of CORE		
	cement understanding	notes/booklet work and	will link to	Exam style	will be visited		
	Revisit - Component 1	consolidate knowledge	English	question paper to	through discussions		
	A1 Low Rise	through activities and	reading –	ascertain	around trade		
	Construction	exam style questioning.	students will	retainment.	integrity and liability.		
	requirements		be required to				
	A2 Sustainability		identify key	Way Point	Will be further		
	A3 Common Structural		information	Students build	reinforced through		
	forms		through	bank of notes.	the Health and Safety		
			reading.		aspects relating to		
					respect, trust and		
			All elements	End Point	integrity.		
			will relate to	Exam style			
			Mathematics -	questions.	Kindness will be		
			area shape and	_	explored during		
			space.		collaborative		
			_		learning and team		
					activities.		
Autumn 2	Component 1 - Recover and	Revisit students	All elements	Pre assessment	All aspects of CORE		
	revision	notes/booklet work and	will link to	Exam style	will be visited		
	Revisit component 1:	consolidate knowledge	English	question paper to	through discussions		
	B1 Preconstruction work	through activities and	reading -	ascertain	around trade		
	B2 Sub-structures	exam style questioning.	students will	retainment.	integrity and liability.		
	groundwork		be required to				
	C1 Superstructures –		identify key		Will be further		
	Walls		information	Way Point	reinforced through		
	C2 Superstructures –		through	Students build	the Health and Safety		
	Floors		reading.	bank of notes.	aspects relating to		
	• Superstructures – roofs				respect, trust and		
	D1 Types of work		All elements		integrity.		
	understaken in		will relate to				
	construction		Mathematics -	End Point	Kindness will be		
	D2 Construction and the		area shape and		explored during		
	built environment		space.		collaborative		
	built environment		1		learning and team		
					activities.		
			Christmas	Holiday			•



• Site Information. Collaborative learning and team activities. Maths – Area shape and space. Money management



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Summer 1	Component 3 Construction			Pre assessment	All aspects of CORE	
	and Design			List and attempt	will be visited	
	Outcome B: Be able to			as many different	through discussions	
	graphically communicate			ways of drawing a	around trade	
	the design of a low-rise			building as	integrity and liability.	
	building			possible		
					Will be further	
	B1 - Development of sketch	This component links back	English -	Way Point	reinforced through	
	techniques	to Component 1 A, B and	annotating and	Build portfolio of	the Health and Safety	
	 floor plants to 	C. Students will have	labelling	examples	aspects relating to	
	approximate scale	practiced sketching some	elements		respect, trust and	
	External Views using 3D	elements.			integrity.	
	sketching techniques			End Point		
			Maths – Area	Students generate	Kindness will be	
	B2 Generation of sketch ideas		shape and	sketches based on	explored during	
	in response to client needs		space.	a brief (exam	collaborative	
	 Design of attractive 		Budgeting and	style)	learning and team	
	aesthetically		time scales		activities.	
	pleasing structures					
	and buildings					
	 Concept ideas for 					
	external appearance					
	Concept for internal					
	layout					
	Annotations and					
	labelling					



Summer 2	Component 3 Construction			Pre assessment	All aspects of CORE	
	and Design			Exam style	will be visited	
				question.	through discussions	
	Opportunity for students to	All elements of	English –		around trade	
	draw in all elements of	Component 1 and 3 will	annotating and	Way Point	integrity and liability.	
	component 3 together and	link in with the final terms	labelling	-		
	practice. Students will be	practice and revision.	elements		Will be further	
	presented with scenarios				reinforced through	
	before completing the final			End Point	the Health and Safety	
	assessment		Maths - Area	Pearson's issued	aspects relating to	
			shape and	assessed	respect, trust and	
			space.	assignment	integrity.	
			Budgeting and			
			time scales		Kindness will be	
					explored during	
					collaborative	
					learning and team	
					activities.	