KS4 Year 10: 2025-26

Overall Curriculum Intent for Construction and the Built Environment

The KS4 curriculum in Construction and the Built Environment aims to equip students with practical, industry-relevant skills in wood joinery and brickwork, allowing them to confidently apply these techniques in real-life scenarios. Students will develop the ability to interpret and use technical source information to support their practical work, ensuring accuracy and efficiency. Through hands-on learning, they will gain knowledge of the tools required for both wood joinery and brickwork, alongside the ability to calculate the materials needed for each task. A key focus of the curriculum is promoting a strong understanding of Health and Safety, with students learning to identify and implement appropriate safety measures, both within the school environment and in the wider construction industry. Additionally, students will explore theory topics related to Safety and Security in Construction, ensuring they can work safely and responsibly while developing their technical expertise.

	work safely and responsibly while developing their technical expertise. Half Term 1 Half Term 2 Half Term 3 Half Term 4 Half Term 5 Half Term 6									
Vnoudodgo			Half Term 3							
Knowledge Introduced	Unit 3 – Constructing the built environment.	Unit 3 – Constructing the built environment.	Unit 3 – Constructing the built environment.	Unit 3 – Constructing the built environment.	Unit 3 – Constructing the built environment.	Unit 3 – Constructing the built environment.				
introduced	environment.	environment.	environment.	environment.	environment.	environment.				
	Carpentry Practical &	Project – Toolbox	NEA Carpentry practice book	NEA Carpentry practice book	NEA Carpentry practice book	NEA Brickwork Assessment				
	Understanding	Knowledge	work:	work:	work:					
	- Risk Assessment	Joining Timbers	- Identify tools required.	- Setting a success criteria.	- Remove, reuse and recycle	- Interpreting brief				
	- Hazards,	Material Finishing Techniques	- Calculating materials required.		materials	- Plan a sequence of work				
	- Risks and Preventions	Alternative Processes			- Evaluation	including timescales, plan of				
	- Tools & Equipment	Manufactured Boards	Unit 3 – Joinery NEA practical	Unit 3 – Joinery NEA practical		manufacture and H&S				
	- Butt Joint				Unit 3 – Joinery NEA practical	- Identifying tools required for				
	- Lap Joint	<u>Skills</u>	- Measure, mark and cut corner	- Attach hinges.		task				
	- Finger Joint	Joining Timbers	halving joints.	- Measure, mark, cut, sand and	- Measure, mark, cut, sand and	- Calculating materials				
	- Dovetail Joint	Clamping Techniques	- Assemble outer and inner	assemble inner frame plywood	assemble beading.	- Success criteria				
	- Dowel Joint	Sanding Timbers	frame.	panel.	- Attach sliding bolt.					
	- Mitre Joint		- Chisel hinge rebates.		- Finish to a high quality	Unit 3 – Brickwork Practical:				
	- Housing Joint					1-day practice (OC)				
	- Bridle Joint					5-hour Brickwork Assessment				
	Theory Unit 1.1	Theory Unit 1.2	Theory Unit 1.3	Theory Unit 1.3	Theory Unit 1.4	Theory Unit 1.5				
	The Sector	The Built Environment Life Cycle	Types of Buildings and	Types of Buildings and	Technologies and Materials	Building Structures and Forms				
	The sector	The Dank Entre of the Office	Structures	Structures	rearmoragies and materials	Danianing of actual columns				
Key	Joinery skills	Joinery skills	- Tools/Equipment	- Success Criteria	- Reuse	- Bed				
vocabulary/	,	·	- Characteristics	- Explicit	- Remove	- Bolster Chisel				
concepts/ideas	- Measure, mark & cut	- Finishing	- Qualities	- Implicit	- Recycle	- Pointing				
students must	- Steel rule, try-square & pencil	- Manufactured Boards	- Limitations	- Tolerance	- Evaluate	- Gauging				
master	- Tenon saw & bench hook	- Sources, Origins and Properties	- Area	- Quality	- Success Criteria	- Levelling				
	- Assembly	- Materials	- Perimeter	- Timescale	- Wood Screw	- Rolling Mortar				
	- Chisel rebate	- Material Stock Forms	- Time		- Bolt and lock	- Spreading Mortar				
	- Accuracy	- Production	- Cost	Joinery Skills:	- Disc sander	- Course				
	- Assembly hinges	- Material Processing	- Material Allowance			- Stretcher Bond				
	- Pilot holes		Joinany Skills	- Assembly		- Face				
	- Screw fixings - Alignment		Joinery Skills - Measure, mark & cut	- Sash clamps - Vices		- Fathering - Buttering Bricks				
	- Alignment		- Halving joint	- Vices - Band Clamps		- Perp Joint				
			- Chisel	- Pressure Points		- Plumb				
			- Assembly	- Application of finish		- Spirit Level				
			7.63cmsiy	/ ipplication of milan		- Trowel				
Knowledge	KS3 Workshop Practical and	KS3 Workshop Practical and	KS3 Workshop Practical and	KS3 Workshop Practical and	KS3 Workshop Practical and	KS3 Workshop Practical and				
revisited	DNA's	DNA's	DNA's	DNA's	DNA's	DNA's				
CEIAG Links/	Graphic Designer	Graphic Designer	Graphic Designer	Graphic Designer	Graphic Designer	Graphic Designer				
Opportunities	Product Designer	Product Designer	Product Designer	Product Designer	Product Designer	Product Designer				
	CAD Designer	CAD Designer	CAD Designer	CAD Designer	CAD Designer	CAD Designer				
	Construction & Engineering	Construction & Engineering	Construction & Engineering	Construction & Engineering	Construction & Engineering	Construction & Engineering				
	Gatsby BM: 2/3/4	Gatsby BM: 2/3/4	Gatsby BM: 2/3/4	Gatsby BM: 2/3/4	Gatsby BM: 2/3/4	Gatsby BM: 2/3/4				

KS4 Year 11: 2026-27

Overall Curriculum Intent for Construction and the Built Environment

The curriculum for KS4 in Construction and the Built Environment is designed to provide students with the opportunity to develop advanced brickwork and painting/decorating skills that are directly applicable to real-life scenarios in the construction industry. Students will learn how to interpret and use technical source information to inform and enhance their practical work, ensuring they can carry out tasks with precision. They will gain an understanding of the tools required for painting and decorating, and learn how to calculate the materials needed for each project, promoting both efficiency and cost-effectiveness. A central focus of the curriculum is the application of Health and Safety measures, where students will be taught to identify and implement appropriate safety protocols, both in school and in industry settings, to minimise risks. Additionally, students will explore theory topics related to Planning Construction Projects, enabling them to understand the processes involved in managing construction work and ensuring projects are completed safely and to a high standard.

	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
Knowledge	Unit 3 – Constructing the built	Unit 3 – Constructing the built	Unit 3 – Constructing the built	Unit 1 Theory Work	Unit 1 Theory Work	
Introduced	environment.	environment.	environment.			
	NEA Brickwork Assessment	NEA Carpentry Assessment	NEA Painting & Decorating	To include; preparing students	To include; preparing students	
	Work	Work	Assessment Work	for the exam, by recapping on	for the exam, by recapping on	
				theory topics from unit 1, and	theory topics from unit 1, and	
	- Planning a sequence of work	- Interpreting sources of info	- Interpreting sources of info	working through exam	working through exam	
	- Remove, reuse and recycle	- Calculating materials - Setting a success criteria	- Calculating materials	techniques using past paper	techniques using past paper	
	- Evaluation of brickwork	- Setting a success criteria - Planning g sequence of work	- Setting a success criteria - Planning q sequence of work	examples.	examples.	
		- Remove, reuse and recycle	- Remove, reuse and recycle			
		- Evaluation of carpentry	- Evaluation of P&D work			
	Unit 3 – Carpentry Practice	Unit 3 – Carpentry Practical	Unit 3 – P&D Practical			
		Assessment	Assessment			
	- Recap of key joinery skills	E h	E have a second			
	linked to assessment project in May Y10	5-hour assessment	5-hour assessment			
	,					
	Theory Unit 1.6	Theory Unit 1.6	Theory Unit 1.7	Theory Unit 1.8		
	Sustainable Construction	Sustainable Construction	Trades, Employment and	Health & Safety		
	Methods	Methods	Careers			
Key	- Health & Safety	- Health & Safety	- Brief	The vocabulary this half term	The vocabulary this half term	
vocabulary/	- PPE	- PPE	- Specification	will be consolidating all the	will be consolidating all the	
concepts/ideas	- Brief	- Brief	- Timescale	vocabulary form across Y10 &	vocabulary form across Y10 &	
students must master	- Specification - Scale	- Specification - Success Criteria	- Plan a sequence of work - Tolerance	Y11	Y11	
master	- Technical Drawing	- Success Criteria - Sequence of work	- Cutting in			
	- Measure, mark and cut	- Evaluate	- Masking off			
	- Steel rule, try-square & pencil	- Scale	- Synthetic brush			
	- Tenon saw & bench hook	- Tenon saw & bench hook	- Fat edge			
	- Waste	- Waste	- Sagging (drips)			
	- Mitre joint	- Mitre joint	- Fine Coat			
	- High quality finish	- Combination square	- Multiple coats			
Knowledge	KS3 Workshop Practical and	KS3 Workshop Practical and	KS3 Workshop Practical and	KS3 Workshop Practical and	KS3 Workshop Practical and	
revisited	DNA's	DNA's	DNA's	DNA's	DNA's	
CEIAG Links/	Graphic Designer	Graphic Designer	Graphic Designer	Graphic Designer	Graphic Designer	
Opportunities	Product Designer CAD Designer	Product Designer CAD Designer	Product Designer CAD Designer	Product Designer CAD Designer	Product Designer CAD Designer	
	CAD Designer Construction & Engineering	CAD Designer Construction & Engineering	CAD Designer Construction & Engineering	CAD Designer Construction & Engineering	CAD Designer Construction & Engineering	
	Gatsby BM: 2/3/4	Gatsby BM: 2/3/4	Gatsby BM: 2/3/4	Gatsby BM: 2/3/4	Gatsby BM: 2/3/4	