

GSA Curriculum Map 2023-24: Constructing the Built Environment

We aim to develop students who:

- develop a knowledge and understanding of health and safety to enable students to work safely and securely in a construction environment;
- develop a range of construction and renovation skills which can be used during the construction processes;
- develop the skills, knowledge and awareness of construction jobs to be able plan,organise and cost construction projects in a professional environment.

	Autumn 1 (HT1)	Autumn 2 (HT2)	Spring 1 (HT3)	Spring 2 (HT4)	Summer 1 (HT5)	Summer 2 (HT6)
Year 10 Constructing the Built Environment						
Topic Covered	Overall intro to the course Unit 1: Introduction to the Built Environment. 1.1 - The sector	Unit 1: Introduction to the Built Environment. 1.2 The Built Environment life cycle	Unit 1: Introduction to the Built Environment. 1.2 The Built Environment life cycle cont.	Unit 1: Introduction to the Built Environment 1.3 Types of building and structure 1.4 Technologies and materials	Unit 1: Introduction to the Built Environment	Unit 1: Introduction to the Built Environment
Knowledge deepened	1.1.1 Buildings and structures 1.1.2 Infrastructure and civil engineering products 1.1.3 Building services engineering 1.1.4 Professional and managerial roles and responsibilities associated with the built environment sector 1.1.4 Designer/architect, Civil/structural engineering requirements for construction tasks	1.1.4 Contracts manager and site manager, Surveyor, Quantity surveyor 1.2.1 Raw material extraction 1.2.2 Manufacturing - Timber 1.2.2 Manufacturing - Metal 1.2.2 Manufacturing - Plastics, Cement etc.	1.2.3 Constructions 1.2.4 Operation and maintenance 1.2.5 Demolition 1.2.6 Disposal, reuse or recycling 1.2.6 Disposal, reuse or recycling	1.3.1 Different forms of infrastructure construction 1.3.2 - 1.3.8 Types of buildings. 1.4.1 Main elements and components of low-rise buildings 1.4.2 Main materials involved in constructing walls, installing building services, fitting roofs and finishing interiors	1.4.2 Main materials involved in constructing walls, installing building services, fitting roofs and finishing interiors 1.4.3 Renewable technologies and materials, including heat pumps, wind turbines and solar panels	Revision of all areas in preparation for the PPE (Pre Public Examination) Retrieval of prior knowledge

Skills developed	<p>Timber (<i>carpentry</i>)</p> <p>UNIT 2: LO3 Be able to use construction processes in completion of construction tasks <i>- wood e.g. hang a door, make a frame, attach a skirting-board, create a timber stud wall</i></p> <p>Practice Joints</p> <ul style="list-style-type: none"> ● Lap joint ● Comb Joint ● Mortise and tenon Joint 	<p>Timber (<i>carpentry</i>)</p> <p>UNIT 2: LO3 Be able to use construction processes in completion of construction tasks <i>- wood e.g. hang a door, make a frame, attach a skirting-board, create a timber stud wall</i></p> <p>Stud wall</p> <ul style="list-style-type: none"> ● Architrave ● Skirting Boards ● Frames 	<p>Electrical</p> <p>UNIT 2: LO3 Be able to use construction processes in completion of construction tasks <i>- electrical e.g. lighting, add a new socket</i></p> <p>Fitting out the stud wall</p> <ul style="list-style-type: none"> ● Fit all components ● Sockets, switches ● Pendant 	<p>Electrical</p> <p>UNIT 2: LO3 Be able to use construction processes in completion of construction tasks <i>- electrical e.g. lighting, add a new socket</i></p> <p>Fitting out the stud wall</p> <ul style="list-style-type: none"> ● Wire up all components ● Use correct cable ● Understand use of grommets ● Testing 	<p>Plumbing</p> <p>UNIT 2: LO3 Be able to use construction processes in completion of construction tasks <i>- plumbing e.g. waste and taps to a sink</i></p> <p>Plumb in a sink</p> <ul style="list-style-type: none"> ● Fit taps ● Plumb in hot and cold water using JG speedfit, compression and brazed fittings 	<p>Plumbing</p> <p>UNIT 2: LO3 Be able to use construction processes in completion of construction tasks <i>- plumbing e.g. waste and taps to a sink</i></p> <p>Plumb in a sink</p> <ul style="list-style-type: none"> ● Plumb in waste. ● Fit waste sink drainer. ● Fit all waste pipes ● Test under pressure
Links to Specification Eduqas Level 1/2 Vocational Award in Construction and the Built Environment (Technical Award) 1	1.1.1, 1.1.2, 1.1.3, 1.1.4, 1.1.4	1.1.4, 1.2.1, 1.2.2, 1.2.2, 1.2.2	1.2.3, 1.2.4, 1.2.5, 1.2.6, 1.2.6	1.3.1, 1.3.2 - 1.3.8, 1.4.1, 1.4.2	1.4.2, 1.4.3	
Flagship Link	Product Design & Construction: HT1&2 - Specialist Technical Knowledge (Timbers)		Product Design & Construction: HT5 - Specialist Technical Knowledge (Ecological and social footprint)			
Cross Curriculum Connections	Mathematics: HT2 - Ratio and Proportion		Mathematics: HT3 - Perimeter Area and Volume Physics: HT2 - Energy changes in systems		Mathematics: HT4 - Measures	
Resources to support learning	Level 1/2 Vocational Award in Construction and the Built Environment (eduqas.co.uk)					

Year 11 Constructing the Built Environment

	Autumn 1 (HT1)	Autumn 2 (HT2)	Spring 1 (HT3)	Spring 2 (HT4)	Summer 1 (HT5)	Summer 2 (HT6)
Topic Covered	UNIT 2 - Developing construction projects UNIT 3 - Planning construction projects	UNIT 2 - Developing construction projects UNIT 3 - Planning construction projects	UNIT 3 - Planning construction projects	UNIT 3 - Planning construction projects	Revision for UNIT 3 - Planning construction projects Revision for retakes of UNIT 1 - Safety and security in construction Completion of the course.	
Knowledge deepened	Building structures and forms Review of Timber knowledge from year 10 Review of Electrical knowledge from year 10 LO1 Know job roles involved in realising construction and built environment projects. 1.1 The activities of those involved in construction projects 1.2 The responsibilities of those involved in construction projects 1.3 Outputs of those involved in realising	Building structures and forms Review of Plumbing knowledge from year 10 LO2 How built environment development projects are realised. 2.3 Potential effects of factors on project success 2.4 Sources of information	LO3 Be able to plan built environment development projects 3.1 Processes to be followed. 3.2 Apportion time to processes. 3.3 Set project Tolerances. LO1 Know job roles involved in realising construction and built environment projects 1.1 Activities of those involved in construction projects 1.2 Responsibilities of those involved in construction projects	2.2 requirements for built environment development projects 2.3 Potential effect of factors on project success 2.4 Sources of information	Consolidation of knowledge for all units Retrieval of prior knowledge	

	<p>construction projects</p> <p>LO2 Understand how built environment development projects are realised.</p> <p>2.1 Processes used in built environment projects.</p> <p>2.2. Requirements for built environment development projects</p>		<p>1.3 Describe outputs of those involved in realising construction projects</p> <p>LO2 Understand how built environment development projects are realised</p> <p>2.1 Describe processes used in built environment development projects.</p>			
Skills developed	<p>UNIT 2: LO3 Be able to use construction processes in completion of construction tasks <i>- wood e.g. hang a door, make a frame, attach a skirting-board, create a timber stud wall</i></p> <ul style="list-style-type: none"> • Non Examined Assessment - Carpentry 	<p>UNIT 2: LO3 Be able to use construction processes in completion of construction tasks <i>- wood e.g. hang a door, make a frame, attach a skirting-board, create a timber stud wall</i></p> <ul style="list-style-type: none"> • Non Examined Assessment - Electrical 	<p>UNIT 2: LO3 Be able to use construction processes in completion of construction tasks <i>- wood e.g. hang a door, make a frame, attach a skirting-board, create a timber stud wall</i></p> <ul style="list-style-type: none"> • Non Examined Assessment - Plumbing 	<p>LO3 Be able to plan built environment development projects</p> <p>3.1 Sequence processes to be followed</p> <p>3.2 Apportion time to processes</p> <p>3.3 Set project tolerances</p>	Knowledge retrieval and exam practice	
Links to Specification WJEC/EDUQAS LEVEL 1 / 2 AWARD in CONSTRUCTING THE BUILT ENVIRONMENT Specification 603/3068/5. Unit 2 Unit 3	<p>LO1 Know job roles involved in realising construction and built environment projects.</p> <p>LO2 Understand how built environment development projects are realised.</p>	<p>LO2 Understand how built environment development projects are realised.</p>	<p>LO1 Know job roles involved in realising construction and built environment projects</p> <p>LO2 Understand how built environment development projects are realised</p>	<p>LO3 Be able to plan built environment development projects</p>		

Flagship Link						
Cross Curriculum Connections	Mathematics: HT1 - Plans and elevations Scale drawing					
Resources to support learning	Construction YouTube Channel https://www.youtube.com/channel/UCQSczLjBUv8ZWcf9mluYv-Q/playlists					