Unit 1: Construction Technology

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First attempt in January; second attempt in May

Highest mark is allocated as Unit 1 grade (L1P/L2P/L2M/L2D)

HTCS

Leaning Aim C— Explore how superstructure are constructed

	Design & Technology		Progress		
Торіс	Key ideas (With regards to Superstructures)	R	Α	G	
Iterative design process	Walls: Function; Detailing; Materials; and Types of Finishes				
	Walls: Openings; Components, detailing and functions of openings;				
	Floors: Functions and detailing				
	Floors: Materials; Types of Finishes; and Components of a floor				
	Roofs: Functions and detailing				
	Roofs: Materials; Types of Finishes; and Components of a floor				

Lesson	Learning Focus	Assessment	Key Words
1	Introduction to Unit 1: Learning Aim C. Understand how walls are detailed; functions of a wall; the mate- rials used to create a wall; and types of finishes	Live marking/Formal examina- tion	Wall-ties spacing, Internal partitions, shelter, security, render, blockwork, pointing
2	Understand functions of wall openings; the different components of a wall opening; and detailing around openings	Live marking/Formal examina- tion	Ventilation, Aesthetics, Lintel, Sill, Window, Door, Threshold, Cavity tray, Cavity closer, Weepholes, Damp Proof Course (DPC)
3	Wall sketching: Cavity masonry; Timber frame; Insu- lated panels (SIPs)	Live marking/Formal examina- tion	Wall, Cavity, Masonry, Timber, Frame, Insulated Panels (SIPs)
4	Understand how floors are detailed; functions of a floor; and the materials used to create a floor	Live marking/Formal examina- tion	Area, Volume, Perimeter, Distance, Level Surface, Stress-graded, Joists, Beam and block, Eco-joists, Precast concrete plank
5	Understand types of floor finishes and the different components of a floor	Live marking/Formal examina- tion	Screed, Chipboard, Tongue-and- groove, Skirting
6	Floors sketching: Solid; Timber; Engineered timber; Suspended	Live marking/Formal examina- tion	Floor, Solid, Timber, Engineered, Suspended
7	Understand how roofs are detailed; functions of a roof; and the materials used to create a roof	Live marking/Formal examina- tion	Discharging, Waterproof, Structure, Recreational, Trussed rafters, Purlins, Breather membrane, Tile & Bitumen felt, Tile battens
8	Understand types of roof finishes and the different components of a roof	Live marking/Formal examina- tion	Downpipes, Rafters, Jack rafters, Cripple jack rafters, Wall plates, Roof Trusses, Binders, Fascia, Eaves, Val- ley, Soffit, Gable, Hip, Dormer
9	Roofs sketching: Flat; Lean-to; Pitched	Live marking/Formal examina- tion	Roof, Flat, Lean-to, Pitched
10	Formative assessment (Using past examination ques- tions covering Unit1:Learning Aim C)	Live marking/Formative As- sessment & Deep Marking grid/Formal examination	Formal, Examination, Objectives
Assess- ment task (Formal	 Formal Examination: 65 Marks 1 hour and 15 minutes Objectives: Multiple choice, chort answers, extended 	ad writing questions and skotching	techniques