

Curriculum Journey
Construction & the
Built Environment

Revision

Dead, dynamic, live

Loads

Materials & Sustainability

Materials grading, slump test, fossil fuels, renewable energy, sustainable features, solar, wind power,

Insulation & Resistance

Eaves, flashing, falls, overhangs, sound, thermal, weather

Trench support pding, groundworks,

Signage, scalings, temporary roads, access, egress, site based, desk based, risk assessments

Cross Sections

Superstructures

Substructures

Preconstruction

Hatching symbols, screed, hardcore

Roof types, walls types, floor types, wall openings, DPC

Foundation types

Hoarding, H&S plan, welfare facilities

Mitre half lap, tenon saw, marking gauge, knot, chisel, mallet

Year 11

Year 10

Cutting Lists & Drawing Rods

Wood Joints: Marking Out

Wood Joints: Construction

Setting out, plan view

Marking out, set square, hatchings

Mitre, half lap, mortice & tenon, dovetail, bride

Facilities, MUGA

Eco-friendly materials, green roofs, renewables

Point Perspective Sketching

Sports Design

Biomimicry & Biophilia

Sustainability

Vanishing points, construction lines

Seasonal design

Biomimicry, biophilia, adaptation, environment

Greenfield/brownfield, cellulose, hemp

Access, accessibility, fire regulations, fire compartments

Art Deco, Modernist, High Tech

Quoins, Pediment, Jettying

Storey, ground floor

Client profile, site details, NTS

Educational Design

Architectural Styles

Residential Design

Client Briefs & Budget

Designing for safeguarding, social safety

Retail, Services

Victorian, Tudor, Georgian

Residential, exterior, interior

GAANT chart, Metres squared.

Commercial Design

Town Planning & Gentrification

CAD vs Traditional Sketches

Designing for function, aesthetics, safety & Sustainability

Year 9

Sightlines, efficiency

Circulation space, colour themes

Renovation, gentrification, social safety

Hatchings, Materials, Features

SketchUp, Elevation, Floor Plans

Function, aesthetics, safety and sustainability