

Careers /Training
Apprenticeship

Land and property valuer
Land surveyor
Landscape architect
Minerals surveyor
Planning and development surveyor
Property developer
Town planner

Architect
Architectural technician
Building control officer
Building surveyor
Civil engineer
Civil engineering technician
Construction manager
Estimator
Mechanical services engineer
Project manager
Quantity surveyor
Structural engineer

Bricklayer
Ceiling fixer
Construction plant operator
Demolition operative
Dryliner
Electrician
Gas mains layer
Glazier
Joiner or carpenter
Painter and decorator
Plasterer
Plumber
Road worker
Roofer
Scaffolder
Shopfitter
Stonemason
Tiler
Window fitter

ROAD MAP TO
CONSTRUCTION

THE DESIGN & TECHNOLOGY CURRICULUM

After school
intervention
sessions available

**UNIT 3 PRACTICAL
EVALUATION**
Evaluate success
Criteria

**UNIT 3 PRACTICAL
TECHNIQUES and PROCESSES**
Apply techniques
Carpentry
Electrical
Decorating
Apply Health and safety

**UNIT - 3 PRACTICAL
RESOURCES**
Identify resources needed
PPE, Tools, Materials
Calculate materials needed
Set success criteria
Prepare for construction

REVISION UNIT 1
Exam preparation
Revision
Maths and science
Practice papers

UNIT 3 – PLANNING
Processes – Planning, construction
Maintenance
Calculate resources
Sequence process – SUB / SUPER
Allocate Time to processes
Set tolerances

**UNIT 1 -
PLANNING**
Roles in construction
Responsibilities
Activities
Types of project

**UNIT 3 - PRACTICAL
WORK PLAN**
Interpret the brief
Interpret technical
drawings
Plan sequence of work

YEAR
11

EXAM
UNIT 3

MOCK
EXAM

EXAM
UNIT 1

YEAR
10

UNIT 1 – SAFETY
LEGISLATION – RESPONSIBILITIES
HASWA, RIDDOR, COSHH, PUWER
MHOR, PPER, WAHR, ASBESTOS
SIGNAGE – Colour, Shape, Meaning
Placement
FIRE EXTINGUISHERS – Colour Use
HSE - Role, powers

UNIT 1 - SAFETY
HAZARDS – Identify,
EFFECTS – Who, Where, What
SUB / SUPER STRUCTURE
RISKS likelihood, severity
CONTROL MEASURES - application
In different situations
Equipment, scale

UNIT 1 - SAFETY

**UNIT 3 – FPT
DECORATING**
Work plan
Identify resources
Cost Job

**UNIT 3 – FPT
ELECTRICAL**

**UNIT 3 – FPT
CARPENTRY**
Technical drawings
Quality control
Basic Skills into
Tools and Equipment
Health and safety

**UNIT 3 - FPT
CARPENTRY**
WOOD JOINTS - Lap, Tenon, Mitre
, Housing
Finger, Dowel, Cross halving, Tee halving
Corner Housing
Health and Safety

SECURITY
Identify risks
Control measure
On Site
Off Site
Complete a FPT to install
a light switch and plug
to a mounted fixing
Requisition correct
materials
Evaluate outcome
against success criteria

Processes
Earth, Live, Neutral
Connector blocks
Light switches, lamps
Plugs

CORE SKILLS: WOOD/METAL

Students will work to a brief to design and make a bottle opener. They will be introduced to detailed engineering, students can personalise their design and. Pupils will manufacture their design using workshop skills and understanding



**CORE SKILLS: ADAPTING
RECIPES/UNDERSTAND DIETARY
EQUIREMENTS**

Students are introduced to a wider variety of kitchen equipment. They learn how to adapt a recipe to remove a particular allergen or dietary requirement and are encouraged to experiment with their own recipes



**SPECIALISM
Food**

Core Skills – Wind | Turbine / Sustainability
Students design and make their own wind turbine / machine. They look at various styles and are introduced to specialist tools, machinery and joints. Through their research and designing they will understand about the properties of the woods they are using and how it is prepared to commercial use, as well being introduced to the basic principles of isometric drawing

