

CONSTRUCTING THE BUILT ENVIRONMENT

Year 9

TERM 1 content and skills	TERM 2 content and skills	TERM 3 content and skills	EXTENDED CURRICULUM (trips/visits/after school activities)
<p>Option Choices Taster Mini projects (Coffee Shop theme):</p> <p>Pupils are given the opportunity to work in each of the subject specialisms we offer at KS4 level. They will spend 3 or 4 weeks in each area, carrying out activities which develop their knowledge, skills and understanding in the wider curriculum of D&T, but also allowing pupils to have an experience of each specialism, leading up to their year 9 option choices.</p> <p>Key specialisms:</p> <ul style="list-style-type: none"> • Graphical Communication • Construction and the Built Environment • Engineering Design / Design & Technology • Hospitality & Catering / Food & Nutrition 	<p>Option Choices Taster Mini projects (Coffee Shop theme):</p> <p>Pupils are given the opportunity to work in each of the subject specialisms we offer at KS4 level. They will spend 3 or 4 weeks in each area, carrying out activities which develop their knowledge, skills and understanding in the wider curriculum of D&T, but also allowing pupils to have an experience of each specialism, leading up to their year 9 option choices.</p> <p>Key specialisms:</p> <ul style="list-style-type: none"> • Graphical Communication • Construction and the Built Environment • Engineering Design / Design & Technology • Hospitality & Catering / Food & Nutrition 	<p>Please see DT Curriculum Map</p>	
<p>Assessment: D&T Curriculum at KS3</p>	<p>Assessment: D&T Curriculum at KS3</p>	<p>Assessment: D&T Curriculum at KS3</p>	

Year 10

<p>Introduction to the Course</p> <p>Unit 1: Introduction to the Built Environment</p> <p>1.1 The Sector Learners will gain knowledge and understanding of the following areas in construction and the built environment sector:</p> <ul style="list-style-type: none"> • buildings and structures • infrastructure and civil engineering products • building services engineering • professional and managerial roles and responsibilities associated with the built environment sector. <p>Unit 3: Constructing the Built Environment</p> <p>Practical practice tasks in Developing Construction Projects:</p> <ul style="list-style-type: none"> • To be able to interpret technical sources of information (3.1). Building knowledge and skills through skills' board and woodwork (Boat) practical tasks. • Know preparation requirements for construction tasks (3.2)(3.6). Building knowledge and skills through skills' board and woodwork (Boat) practical tasks. • Be able to use construction processes in completion of construction tasks (3.7)(3.9). Building knowledge and 	<p>Unit 1: Introduction to the Built Environment</p> <p>1.2 The Built Environment Life Cycle Learners will gain knowledge and understanding of the built environment life cycle, specifically:</p> <ul style="list-style-type: none"> • raw material extraction • manufacturing • construction • operation and maintenance • demolition • disposal, reuse or recycling. <p>1.3 Types of Building and Structure Learners will gain knowledge and understanding of the features and characteristics of:</p> <ul style="list-style-type: none"> • different forms of infrastructure construction • low-rise: • residential dwellings • commercial buildings • industrial buildings • agricultural buildings • community buildings • religious buildings • recreational buildings. <p>Unit 3: Constructing the Built Environment</p> <p>Practical practice tasks in Developing Construction Projects:</p> <ul style="list-style-type: none"> • To be able to interpret technical sources of information (3.1). Building knowledge and skills through woodwork Task (Game). 	<p>Unit 1: Introduction to the Built Environment</p> <p>1.4 Technologies and Materials Learners will gain knowledge and understanding of tools, technologies and materials used in the construction and built environment sector:</p> <ul style="list-style-type: none"> • main elements and components of low-rise buildings • main materials involved in constructing walls, installing building services, fitting roofs and finishing interiors • renewable technologies and materials, including heat pumps, wind turbines and solar panels. <p>1.5 Building Structures and Forms Learners will gain knowledge and understanding of the following building structures and forms:</p> <ul style="list-style-type: none"> • cellular constructions • rectangular frame constructions • portal frame constructions • heritage and traditional methods. <p>Unit 3: Constructing the Built Environment</p> <p>Practical practice tasks in Developing Construction Projects:</p> <ul style="list-style-type: none"> • To be able to interpret technical sources of information (3.1). Building knowledge and skills through woodwork Task (Game). • Know preparation requirements for construction tasks (3.2)(3.6). Building knowledge and skills through woodwork Task (Game). 	<p>Links with the Construction Industry – Potential Site Visits & Guest Speakers</p>
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<p>skills through skills' board and woodwork (Boat) practical tasks.</p>	<ul style="list-style-type: none"> • Know preparation requirements for construction tasks (3.2)(3.6). Building knowledge and skills through woodwork Task (Game). • Be able to use construction processes in completion of construction tasks (3.7)(3.9). Building knowledge and skills through woodwork Task (Game). 	<p>Be able to use construction processes in completion of construction tasks (3.7)(3.9). Building knowledge and skills through woodwork Task (Game).</p> <p>Tiling Practice Practical</p> <p>Wood Joints Practice</p>	
<p>Assessment: Unit 1: Introduction to the Built Environment The Sector – End of Term Test Unit 3: Constructing the Built Environment Skills Board Internal Assessment Woodwork Practical Task Internal Assessment (Boat)</p>	<p>Assessment: Unit 1: Introduction to the Built Environment The Built Environment Lifecycle – Mid-Term Test Types of Buildings and Structures – End of Term Test Unit 3: Constructing the Built Environment Woodwork Practical Task Internal Assessment (Game)</p>	<p>Assessment: Unit 1: Introduction to the Built Environment Technologies and Materials – Mid-Term Test Building Structures and Forms – End of Term Test Unit 3: Constructing the Built Environment Woodwork Practical Task Internal Assessment (Game)</p>	
<p>Year 11</p>			
<p>Unit 1: Introduction to the Built Environment</p> <p>1.6 Sustainable Construction Methods Learners will gain knowledge and understanding of issues related to sustainable construction methods:</p> <ul style="list-style-type: none"> • the environmental, financial, cultural and social benefits of sustainable construction methods • pollution and the preservation of the natural environment and natural habitats 	<p>Unit 1: Introduction to the Built Environment</p> <p>1.6 Trades, Employment and Careers Learners will gain knowledge and understanding of the following:</p> <ul style="list-style-type: none"> • bricklaying • stonemasonry • plastering • carpentry and joinery • electrical installation • plumbing installation • painting and decorating 	<p>Unit 1: Introduction to the Built Environment</p> <p>Unit 1: Written Examination Paper- Introduction to the Built Environment – Revision Students take their Unit 1 written exam paper in the summer term of year 11.</p> <p>Unit 3: Constructing the Built Environment</p> <p>Practical Tasks and Projects to refine skills in Workshop.</p> <p>Live practical 'jobs' undertaken around CVC site to refine skills in interpretation, planning and construction processes.</p>	<p>Links with the Construction Industry – Potential Site Visits & Guest Speakers</p>

<ul style="list-style-type: none"> • sustainable materials used to create building frames, walls, roofs • waste disposal, re-use and recycling • planning permission, brownfield sites and greenfield sites. <p>Unit 3: Constructing the Built Environment</p> <p>Students work on and complete their Unit 3 Practical Assignment for Wood (Carpentry), Tiling and Painting & Decorating.</p> <p><i>3.1 Interpreting technical sources of information</i></p> <p><i>3.2 Planning and organising work</i></p> <p><i>3.3 Identifying resource requirements</i></p> <p><i>3.4 Calculating the materials required</i></p> <p><i>3.5 Writing and setting success criteria</i></p> <p><i>3.6 Prepare for construction tasks</i></p> <p><i>3.7 Carrying out techniques</i></p> <p><i>3.8 Removing and disposing of materials</i></p> <p><i>3.9 Working practices that promote health and safety</i></p> <p><i>3.10 Evaluating construction tasks.</i></p>	<ul style="list-style-type: none"> • flooring and tiling. <p>1.7 Health and Safety</p> <p>Learners will gain knowledge and understanding of health and safety in relation to:</p> <ul style="list-style-type: none"> • risks for employees, employers and the public during construction and the built environment projects • following procedures and carrying out risk assessments • relevant legislation, including Health and Safety at Work Act and Control of Substances Hazardous to Health (COSHH) regulations • using personal protective equipment (PPE) • safely working with gas, water and electricity • working at height and in enclosed spaces. <p>Unit 1: Written Examination Paper- Introduction to the Built Environment – Revision</p> <p>Unit 3: Constructing the Built Environment</p> <p>Students work on and complete their Unit 3 Practical Assignment for Wood (Carpentry), Tiling and Painting & Decorating.</p> <p><i>3.1 Interpreting technical sources of information</i></p> <p><i>3.2 Planning and organising work</i></p> <p><i>3.3 Identifying resource requirements</i></p> <p><i>3.4 Calculating the materials required</i></p> <p><i>3.5 Writing and setting success criteria</i></p>	<p>Building knowledge and understanding of the Construction Industry in the study of live or real Construction projects.</p>	
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	<p>3.6 Prepare for construction tasks 3.7 Carrying out techniques 3.8 Removing and disposing of materials 3.9 Working practices that promote health and safety 3.10 Evaluating construction tasks.</p> <p>Students complete their Unit 3 Written Assignment covering the 3 material areas, as part of their controlled assessment.</p>		
<p>Assessment: Unit 1: Introduction to the Built Environment Sustainable Construction Methods – End of Term Test Unit 3: Constructing the Built Environment Practical Assignments Constructing the Built Environment Controlled Assessment</p>	<p>Assessment: Unit 1: Introduction to the Built Environment Trades, Employment and Careers – Mid-Term Test Health and Safety – End of Term Test Unit 3: Constructing the Built Environment Practical Assignments Constructing the Built Environment Controlled Assessment, plus written Assignment Coursework Completion.</p>	<p>Assessment: Unit 1: Introduction to the Built Environment Written Exam Paper</p>	