

# Subject: Construction

## Subject Leader

Danny Page

## National Curriculum

Construction in year 9 is a combination of enrichment and learning basic practical hand skills that will allow them to progress into key stage 4. Students will develop basic skills in measuring, marking & cutting while learning about design, presentation and construction. Key stage 4 design and technology offers the Level 1/ 2 Eduqas/ WJEC Vocational Award in Construction and the Built Environment (Technical Award) or alternatively the NCFE Level 1 Certificate in Occupational Studies for the Workplace. Both of these support students' learning, development and basic knowledge of the construction industry.

## Curriculum Intent

To offer an alternative to academic core subjects and develop real-life practical and transferable skills that will last a lifetime; these will also include soft skills such as self-esteem building, teamwork, self-control, creativity and problem solving. To offer students meaningful and relevant qualifications that can be built upon in their post-16 provisions. This will be achieved through a wide range of teaching & nurturing styles and a variety of learning contexts.

## Curriculum Implementation

		Term	Content/Topics	Assessment
Year 9	Autumn Term	1	Course Induction, Ground rules, Liability, Evacuation, Hazards, PPE, Risk Assessment, First Aid  Develop individual joinery skills  <b>Mug rack project</b> Set-out, mark-out and construct mug rack using cross-halving joint and butt joint construction  Form basic woodworking joints using hand tools: develop tool skills by producing halving joints, housing joints, mitre joints, mortise & tenon joints. <b>*Bridle joints &amp; dovetail joints for advancement/ differentiation</b> Mark-out, set-out and construct a four joint frame	Oral question & answer, Self-assessment, Observation, Differentiation of tasks, Written assessment sheet with verbal/ written feedback Achievement of required course standards Risk assessment Peer and self-assessment
		2	Form basic woodworking joints using hand tools: develop tool skills by producing halving joints, housing joints, mitre joints, mortise & tenon joints. <b>*Bridle joints &amp; dovetail joints for advancement/ differentiation</b> Mark-out, set-out and construct a four joint frame	Oral question & answer, Self-assessment, Observation, Differentiation of tasks, Written assessment sheet with verbal/ written feedback Achievement of required course standards Risk assessment

Spring Term	3	<p>Develop individual joinery skills  <b>Bird table project.</b>  Set-out, mark-out and construct a timber bird table using frame construction  To understand why and where different techniques are used and the alternative industrial methods.  To be able to produce sample joints in wood using temporary and permanent methods.  To be able to describe the named finishes.  Develop key skills in order to be able to construct a timber bird table.</p>	<p>Oral question &amp; answer,  Self-assessment,  Observation,  Differentiation of tasks,  Written assessment sheet with verbal/ written feedback  Achievement of required course standards  Risk assessment  Peer and self-assessment</p>
	4	<p>Develop individual joinery skills  <b>Bird table project.</b>  Set-out, mark-out and construct a timber bird table using frame construction  To understand why and where different techniques are used and the alternative industrial methods.  To be able to produce sample joints in wood using temporary and permanent methods.  To be able to describe the named finishes.  Develop key skills in order to be able to construct a timber bird table.</p>	<p>Oral question &amp; answer,  Self-assessment,  Observation,  Differentiation of tasks,  Written assessment sheet with verbal/ written feedback  Achievement of required course standards  Risk assessment</p>
Summer Term	5	<p>Develop skills to plan and construct individual project of choice and evaluate success.  <b>Coffee table project.</b>  Set-out, mark-out and construct coffee table using frame construction   <b>*Rebated side panels and base to be used as differentiation for more advanced learners</b>  To understand why and where different techniques are used and the alternative industrial methods.  To be able to produce sample joints in wood using temporary and permanent methods.  To be able to describe the named finishes.  Develop key skills in order to be able to construct a timber coffee table project.</p>	<p>Oral question &amp; answer,  Self-assessment,  Observation,  Differentiation of tasks,  Written assessment sheet with verbal/ written feedback  Achievement of required course standards  Risk assessment  Peer and self-assessment</p>
	6	<p>Further develop carpentry and joinery hand skills to plan and construct individual project of choice, identify success criteria for this and evaluate the outcome.  To understand why and where different techniques are used and the alternative industrial methods.  To be able to produce sample joints in wood using temporary and permanent methods.  To be able to describe the named finishes.   End of term review, next steps and progression into key stage 4.</p>	<p>Oral question &amp; answer,  Self-assessment,  Observation,  Differentiation of tasks,  Written assessment sheet with verbal/ written feedback  Achievement of required course standards  Risk assessment  Peer and self-assessment</p>

## Curriculum Implementation

		Term	Content/Topics	Assessment (including formal exam options)
Year 10	Autumn Term	1	<p>Course Induction, Ground rules, Liability, Evacuation, Hazards, PPE, Risk Assessment, First Aid</p> <p>All aspects of health and safety in the workshop</p> <p>Learners should be able to identify risks and hazards associated with various construction activities</p> <p>What is the risk?</p> <p>Level of risk?</p> <p>Who may be harmed and how?</p> <p>Control measure?</p> <p>Who is responsible?</p> <p>To understand simple drawings and cutting lists to interpret technical sources of information used in construction projects.</p> <p>Be able to plan and sequence a logical plan of work</p> <p>Identify tools equipment and processes used to complete construction projects</p> <p>Be able to plan for construction projects</p> <p>Skill building activities - use a range of skills and techniques to complete various construction tasks</p>	<p>Identify resources required to complete construction tasks</p> <p>Apply health and safety practices in completion of construction tasks</p> <p>Interpret technical sources of information</p> <p>Identify resources required to complete construction tasks</p> <p>Apply health and safety practices in completion of construction task</p>
		2	<p>To identify resources required to complete tasks</p> <p>Use a range of skills and techniques to complete various construction tasks</p> <p>Produce practical outcome which meets technical specification and brief</p> <p>Develop an understanding of safe working practices</p> <p>Become independent when completing tasks</p> <p>Set success criteria for completion of project</p> <p>Be able to plan and sequence a logical plan of manufacture</p> <p>Identify tools equipment and processes used to complete construction projects</p> <p>Be able to plan for construction projects</p> <p>Skill building activities - use a range of skills and techniques to complete various construction tasks</p>	<p>Identify resources required to complete construction tasks</p> <p>Apply health and safety practices in completion of construction tasks</p> <p>Plan sequence of work to meet requirements of sources of information</p> <p>Identify resources required to complete construction task</p> <p>Set success criteria for completion of construction task</p>
	Spring Term	3	<p>To identify resources required to complete tasks</p> <p>Use a range of skills and techniques to complete various construction tasks</p> <p>Produce practical outcome which meets technical specification and brief</p> <p>Develop an understanding of safe working practices</p> <p>Become independent when completing tasks</p> <p>Unit 3 – Skills development relevant to all areas of content for trade-based task 1</p>	<p>Identify resources required to complete construction tasks</p> <p>Apply health and safety practices in completion of construction tasks</p> <p>Identify resources required to complete construction tasks</p> <p>Calculate materials required to complete construction tasks</p> <p>Prepare for construction tasks</p> <p>Apply techniques in completion of construction tasks</p> <p>Apply health and safety practices in completion of construction tasks</p>

		4	<p>To identify resources required to complete tasks Use a range of skills and techniques to complete various construction tasks Produce practical outcome which meets technical specification and brief Develop an understanding of safe working practices Become independent when completing tasks</p> <p>Unit 3 – Skills development relevant to all areas of content for trade-based task 1</p>	<p>Identify resources required to complete construction tasks Apply health and safety practices in completion of construction tasks Identify resources required to complete construction tasks Calculate materials required to complete construction tasks Prepare for construction tasks Apply techniques in completion of construction tasks Apply health and safety practices in completion of construction tasks</p>
	Summer Term	5	<p>To identify resources required to complete tasks Use a range of skills and techniques to complete various construction tasks Produce practical outcome which meets technical specification and brief Develop an understanding of safe working practices Become independent when completing tasks</p> <p>Unit 3 – Skills development relevant to all areas of content for trade-based task 2</p>	<p>Identify resources required to complete construction tasks Apply health and safety practices in completion of construction tasks Identify resources required to complete construction tasks Calculate materials required to complete construction tasks Prepare for construction tasks Apply techniques in completion of construction tasks Apply health and safety practices in completion of construction tasks</p>
		6	<p>To identify resources required to complete tasks Use a range of skills and techniques to complete various construction tasks Produce practical outcome which meets technical specification and brief Develop an understanding of safe working practices Become independent when completing tasks</p> <p>Unit 3 – Skills development relevant to all areas of content for trade-based task 2</p>	<p>Identify resources required to complete construction tasks Apply health and safety practices in completion of construction tasks Identify resources required to complete construction tasks Calculate materials required to complete construction tasks Prepare for construction tasks Apply techniques in completion of construction tasks Apply health and safety practices in completion of construction tasks</p>
	<b>Term</b>		<b>Content/Topics</b>	<b>Assessment (including formal exam options)</b>
<b>Year 11</b>	Autumn Term	1	<p>To identify resources required to complete tasks Use a range of skills and techniques to complete various construction tasks Produce practical outcome which meets technical specification and brief Develop an understanding of safe working practices Become independent when completing tasks</p> <p>Unit 1 – Introduction to the construction sector Unit 1 – The Built Environment life cycle Unit 1 – Types of building and structure Unit 1 – Technologies and materials</p> <p>Unit 3 – Skills development relevant to all areas of content for trade-based task 3</p>	<p>Identify resources required to complete construction tasks Apply health and safety practices in completion of construction tasks Identify resources required to complete construction tasks Calculate materials required to complete construction tasks Prepare for construction tasks Apply techniques in completion of construction tasks Apply health and safety practices in completion of construction tasks</p>

		<p>2</p> <p>To identify resources required to complete tasks  Use a range of skills and techniques to complete various construction tasks  Produce practical outcome which meets technical specification and brief  Develop an understanding of safe working practices  Become independent when completing tasks</p> <p>Unit 1 – Building structures and forms  Unit 1 – Sustainable construction methods  Unit 1 – Trade, employment and careers  Unit 1 – Health and safety</p> <p>Unit 3 – Skills development relevant to all areas of content for trade-based task 3</p> <p>Learners will be able to critically evaluate the quality of construction tasks.  Key questions to be addressed:  What did you do well?  How could you improve the outcome?  What did you find challenging?</p>	<p>Identify resources required to complete construction tasks  Apply health and safety practices in completion of construction tasks  Identify resources required to complete construction tasks  Calculate materials required to complete construction tasks  Prepare for construction tasks  Apply techniques in completion of construction tasks  Apply health and safety practices in completion of construction tasks</p> <p>Evaluate quality of construction tasks. Written presentation including photographic evidence.</p>	
Spring Term		<p>3</p> <p>To identify resources required to complete tasks  Use a range of skills and techniques to complete various construction tasks  Produce practical outcome which meets technical specification and brief  Develop an understanding of safe working practices  Become independent when completing tasks</p> <p>Unit 1 – Building structures and forms  Unit 1 – Sustainable construction methods  Unit 1 – Trade, employment and careers  Unit 1 – Health and safety</p> <p>Unit 3 – Skills development relevant to all areas of content for trade-based task 3</p> <p>Learners will be able to critically evaluate the quality of construction tasks.  Key questions to be addressed:  What did you do well?  How could you improve the outcome?  What did you find challenging?</p>	<p>Identify resources required to complete construction tasks  Apply health and safety practices in completion of construction tasks  Identify resources required to complete construction tasks  Calculate materials required to complete construction tasks  Prepare for construction tasks  Apply techniques in completion of construction tasks  Apply health and safety practices in completion of construction tasks</p> <p>Evaluate quality of construction tasks. Written presentation including photographic evidence.</p>	

Summer Term	4	<p>To identify resources required to complete tasks          Use a range of skills and techniques to complete various construction tasks          Produce practical outcome which meets technical specification and brief          Develop an understanding of safe working practices          Become independent when completing tasks</p> <p>Unit 1 – summary, recap and revision</p> <p>Eduqas/ WJEC - Unit 3 externally set assessment preparation for submission to moderator</p>	<p>Identify resources required to complete construction tasks          Apply health and safety practices in completion of construction task</p>
	5	<p>Learners will be able to critically evaluate the quality of construction tasks          Key questions to be addressed:          What did you do well?          How could you improve the outcome?          What did you find challenging?</p> <p>NCFE completion of evidence and portfolios for internal verification</p>	<p>Submission of unit 3 coursework for external moderation</p>
	6	<p>Unit 1 externally set examination preparation</p>	<p>NCFE – submission of sample for external verification</p> <p>Eduqas/ WJEC - Unit 1 summative assessment externally set exam</p>