Subject: Construction

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| **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** |
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|  | **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**Mug rack project**Set-out, mark-out and construct mug rack using cross-halving joint and butt joint constructionForm basic woodworking joints using hand tools: develop tool skills by producing halving joints, housing joints, mitre joints, mortise & tenon joints.**\*Bridle joints & dovetail joints for advancement/ differentiation**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 feedbackAchievement of required course standardsRisk assessmentPeer 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.**\*Bridle joints & dovetail joints for advancement/ differentiation**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 feedbackAchievement of required course standardsRisk assessment |
| Spring Term | 3 | Develop individual joinery skills**Bird table project.**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. | Oral question & answer,Self-assessment,Observation,Differentiation of tasks, Written assessment sheet with verbal/ written feedbackAchievement of required course standardsRisk assessmentPeer and self-assessment |
| 4 | Develop individual joinery skills**Bird table project.**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. | Oral question & answer,Self-assessment,Observation,Differentiation of tasks, Written assessment sheet with verbal/ written feedbackAchievement of required course standardsRisk assessment |
| Summer Term | 5 | Develop skills to plan and construct individual project of choice and evaluate success.**Coffee table project.**Set-out, mark-out and construct coffee table using frame construction**\*Rebated side panels and base to be used as differentiation for more advanced learners**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. | Oral question & answer,Self-assessment,Observation,Differentiation of tasks, Written assessment sheet with verbal/ written feedbackAchievement of required course standardsRisk assessmentPeer and self-assessment |
| 6 | 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. | Oral question & answer,Self-assessment,Observation,Differentiation of tasks, Written assessment sheet with verbal/ written feedbackAchievement of required course standardsRisk assessmentPeer and self-assessment |

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| **Curriculum Implementation** |
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|  | **Term** | **Content/Topics** | **Assessment (including formal exam options)** |
| **Year 10** | Autumn Term | 1 | Course Induction, Ground rules, Liability,Evacuation, Hazards, PPE, Risk Assessment, First Aid All aspects of health and safety in the workshopLearners should be able to identify risks and hazards associated with various construction activitiesWhat is the risk?Level of risk?Who may be harmed and how?Control measure?Who is responsible?To understand simple drawings and cutting lists to interpret technical sources of information used in construction projects.Be able to plan and sequence a logical plan of work Identify tools equipment and processes used to complete construction projects Be able to plan for construction projectsSkill building activities - use a range of skills and techniques to complete various construction tasks | Identify resources required to complete construction tasksApply health and safety practices in completion of construction tasksInterpret technical sources of informationIdentify resources required to complete construction tasksApply health and safety practices in completion of construction task |
| 2 | To identify resources required to complete tasksUse a range of skills and techniques to complete various construction tasksProduce practical outcome which meets technical specification and briefDevelop an understanding of safe working practicesBecome independent when completing tasksSet success criteria for completion of projectBe able to plan and sequence a logical plan of manufacture Identify tools equipment and processes used to complete construction projects Be able to plan for construction projectsSkill building activities - use a range of skills and techniques to complete various construction tasks | Identify resources required to complete construction tasksApply health and safety practices in completion of construction tasksPlan sequence of work to meet requirements of sources of informationIdentify resources required to complete construction taskSet success criteria for completion of construction task |
| Spring Term | 3 | To identify resources required to complete tasksUse a range of skills and techniques to complete various construction tasksProduce practical outcome which meets technical specification and briefDevelop an understanding of safe working practicesBecome independent when completing tasksUnit 3 – Skills development relevant to all areas of content for trade-based task 1 | Identify resources required to complete construction tasksApply health and safety practices in completion of construction tasksIdentify resources required to complete construction tasksCalculate materials required to complete construction tasksPrepare for construction tasksApply techniques in completion of construction tasks Apply health and safety practices in completion of construction tasks |
| 4 | To identify resources required to complete tasksUse a range of skills and techniques to complete various construction tasksProduce practical outcome which meets technical specification and briefDevelop an understanding of safe working practicesBecome independent when completing tasksUnit 3 – Skills development relevant to all areas of content for trade-based task 1 | Identify resources required to complete construction tasksApply health and safety practices in completion of construction tasksIdentify resources required to complete construction tasksCalculate materials required to complete construction tasksPrepare for construction tasksApply techniques in completion of construction tasks Apply health and safety practices in completion of construction tasks |
| Summer Term | 5 | To identify resources required to complete tasksUse a range of skills and techniques to complete various construction tasksProduce practical outcome which meets technical specification and briefDevelop an understanding of safe working practicesBecome independent when completing tasksUnit 3 – Skills development relevant to all areas of content for trade-based task 2 | Identify resources required to complete construction tasksApply health and safety practices in completion of construction tasksIdentify resources required to complete construction tasksCalculate materials required to complete construction tasksPrepare for construction tasksApply techniques in completion of construction tasks Apply health and safety practices in completion of construction tasks |
| 6 | To identify resources required to complete tasksUse a range of skills and techniques to complete various construction tasksProduce practical outcome which meets technical specification and briefDevelop an understanding of safe working practicesBecome independent when completing tasksUnit 3 – Skills development relevant to all areas of content for trade-based task 2 | Identify resources required to complete construction tasksApply health and safety practices in completion of construction tasksIdentify resources required to complete construction tasksCalculate materials required to complete construction tasksPrepare for construction tasksApply techniques in completion of construction tasks Apply health and safety practices in completion of construction tasks |
|  | **Term** | **Content/Topics** | **Assessment (including formal exam options)** |
| **Year 11** | Autumn Term | 1 | To identify resources required to complete tasksUse a range of skills and techniques to complete various construction tasksProduce practical outcome which meets technical specification and briefDevelop an understanding of safe working practicesBecome independent when completing tasksUnit 1 – Introduction to the construction sector Unit 1 – The Built Environment life cycleUnit 1 – Types of building and structure Unit 1 – Technologies and materialsUnit 3 – Skills development relevant to all areas of content for trade-based task 3 | Identify resources required to complete construction tasksApply health and safety practices in completion of construction tasksIdentify resources required to complete construction tasksCalculate materials required to complete construction tasksPrepare for construction tasksApply techniques in completion of construction tasks Apply health and safety practices in completion of construction tasks |
| 2 | To identify resources required to complete tasksUse a range of skills and techniques to complete various construction tasksProduce practical outcome which meets technical specification and briefDevelop an understanding of safe working practicesBecome independent when completing tasksUnit 1 – Building structures and forms Unit 1 – Sustainable construction methodsUnit 1 – Trade, employment and careers Unit 1 – Health and safetyUnit 3 – Skills development relevant to all areas of content for trade-based task 3Learners 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? | Identify resources required to complete construction tasksApply health and safety practices in completion of construction tasksIdentify resources required to complete construction tasksCalculate materials required to complete construction tasksPrepare for construction tasksApply techniques in completion of construction tasks Apply health and safety practices in completion of construction tasksEvaluatequality of construction tasks. Written presentation including photographic evidence.  |
| Spring Term | 3 | To identify resources required to complete tasksUse a range of skills and techniques to complete various construction tasksProduce practical outcome which meets technical specification and briefDevelop an understanding of safe working practicesBecome independent when completing tasksUnit 1 – Building structures and forms Unit 1 – Sustainable construction methodsUnit 1 – Trade, employment and careers Unit 1 – Health and safetyUnit 3 – Skills development relevant to all areas of content for trade-based task 3Learners 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? | Identify resources required to complete construction tasksApply health and safety practices in completion of construction tasksIdentify resources required to complete construction tasksCalculate materials required to complete construction tasksPrepare for construction tasksApply techniques in completion of construction tasks Apply health and safety practices in completion of construction tasksEvaluatequality of construction tasks. Written presentation including photographic evidence.  |
| 4 | To identify resources required to complete tasksUse a range of skills and techniques to complete various construction tasksProduce practical outcome which meets technical specification and briefDevelop an understanding of safe working practicesBecome independent when completing tasksUnit 1 – summary, recap and revisionEduqas/ WJEC - Unit 3 externally set assessment preparation for submission to moderator | Identify resources required to complete construction tasksApply health and safety practices in completion of construction task |
| Summer Term | 5 | Learners will be able to critically evaluate the quality of construction tasksKey questions to be addressed:What did you do well?How could you improve the outcome?What did you find challenging?NCFE completion of evidence and portfolios for internal verification | Submission of unit 3 coursework for external moderation |
| 6 | Unit 1 externally set examination preparation | NCFE – submission of sample for external verificationEduqas/ WJEC - Unit 1 summative assessment externally set exam |

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