

Subject: Design and Technology

Subject Leader

Danny Page

National Curriculum

Design and technology in year 9 is a combination of enrichment and learning basic practical hand skills. Students will develop basic skills in measuring, marking & cutting while learning about design, presentation and construction.

Key stage 4 offers an entry level 3 qualification which is the NCFE Creative Craft Award; this is in addition to the Level 1 / 2 WJEC Award in Constructing the Built Environment. Both of these support students' learning and development.

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 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 feedback Achievement of required course standards Risk assessment |
| | | 2 Develop individual joinery skills Bird table project. Set-out, mark-out and construct bird table using frame construction | 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 To know 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 coffee table project. | Oral question & answer, Self-assessment, Observation, Differentiation of tasks, Written assessment sheet with verbal/ written feedback Achievement of required course standards |

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| | | | | Risk assessment |
| | | 4 | <p>To know why and where different techniques are used and the alternative industrial methods.</p> <p>To be able to produce sample joints in wood using temporary and permanent methods.</p> <p>To be able to describe the named finishes.</p> <p>Develop key skills in order to be able to construct a coffee table project.</p> | <p>Oral question & answer,</p> <p>Self-assessment,</p> <p>Observation,</p> <p>Differentiation of tasks,</p> <p>Written assessment sheet with verbal/ written feedback</p> <p>Achievement of required course standards</p> <p>Risk assessment</p> |
| | Summer Term | 5 | Develop skills to plan and construct individual project of choice and evaluate success. | <p>Oral question & answer,</p> <p>Self-assessment,</p> <p>Observation,</p> <p>Differentiation of tasks,</p> <p>Written assessment sheet with verbal/ written feedback</p> <p>Achievement of required course standards</p> <p>Risk assessment</p> |
| | | 6 | Further develop joinery skills to plan and construct individual project of choice and evaluate the success of this. | <p>Oral question & answer,</p> <p>Self-assessment,</p> <p>Observation,</p> <p>Differentiation of tasks,</p> <p>Written assessment sheet with verbal/ written feedback</p> <p>Achievement of required course standards</p> <p>Risk assessment</p> |

| Term | | Content/Topics | Assessment (including formal exam options) |
|---------|-------------|--|--|
| Year 10 | Autumn Term | 1 To be able to identify tools and equipment used in construction. Learners should be able to identify risks and hazards associated with their joinery project What 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 manufacture Identify tools equipment and processes used to complete construction projects Be able to plan for construction projects | Identify resources required to complete construction tasks Apply health and safety practices in completion of construction task |
| | | 2 To identify resources required to complete tasks. Use a range of manufacturing techniques to complete joinery task Produce practical outcome which meets technical specification and brief Develop an understanding of safe working practices Become independent when completing tasks. | Identify resources required to complete construction tasks Apply health and safety practices in completion of construction task |
| | Spring Term | 3 To identify resources required to complete tasks. Use a range of manufacturing techniques to complete joinery task Produce practical outcome which meets technical specification and brief Develop an understanding of safe working practices Become independent when completing tasks. | Identify resources required to complete construction tasks Apply health and safety practices in completion of construction task |
| | | 4 To identify resources required to complete tasks. Use a range of manufacturing techniques to complete joinery task Produce practical outcome which meets technical specification and brief Develop an understanding of safe working practices Become independent when completing tasks. | Identify resources required to complete construction tasks Apply health and safety practices in completion of construction task |
| | Summer Term | 5 To identify resources required to complete tasks. Use a range of manufacturing techniques to complete joinery task Produce practical outcome which meets technical specification and brief Develop an understanding of safe working practices Become independent when completing tasks. | Identify resources required to complete construction tasks Apply health and safety practices in completion of construction task |

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| | | 6 | <p>To identify resources required to complete tasks.</p> <p>Use a range of manufacturing techniques to complete joinery task</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>Identify resources required to complete construction tasks</p> <p>Apply health and safety practices in completion of construction task</p> |
| | Term | | Content/Topics | Assessment (including formal exam options) |
| Year 11 | Autumn Term | 1 | <p>Learners will be able to critically evaluate the quality of construction tasks.</p> <p>Key questions to be addressed:</p> <p>What did you do well</p> <p>How could you improve the outcome?</p> <p>What did you find challenging?</p> | <p>Evaluate quality of construction tasks.</p> <p>Written presentation including photographic evidence.</p> |
| | | 2 | Learners will develop an understanding of costs involved when completing construction projects. | Calculate materials required to complete construction tasks |
| | Spring Term | 3 | <p>To identify resources required to complete tasks.</p> <p>Use a range of manufacturing techniques to complete construction task</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>Identify resources required to complete construction tasks</p> <p>Apply health and safety practices in completion of construction task</p> |
| | | 4 | <p>To identify resources required to complete tasks.</p> <p>Use a range of manufacturing techniques to complete construction task</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>Identify resources required to complete construction tasks</p> <p>Apply health and safety practices in completion of construction task</p> |
| | Summer Term | 5 | <p>Learners will be able to critically evaluate the quality of construction tasks.</p> <p>Key questions to be addressed:</p> <p>What did you do well</p> <p>How could you improve the outcome?</p> <p>What did you find challenging?</p> | <p>Evaluate quality of construction tasks.</p> <p>Written presentation including photographic evidence.</p> |
| | | 6 | Unit 1 & 3 externally set assessment preparation | <p>Unit 1 & 3 summative assessment</p> <p>Submission of unit 2 coursework for external moderation</p> |