

Area of Experience: Materials Technology: Wood

MTW

At Junior Certificate level the student can:

- | | |
|---|--|
| 1 Assembly | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Work with wood having practised the basic skills appropriate for assembling finished pieces of basic work | |
| 2 Theory 1 | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Display basic background knowledge of woodwork theory | |
| 3 Drawings | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Interpret and produce basic drawings relating to artefacts made from wood | |
| 4 Wood Craft | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Display a knowledge of basic Wood Craft | |
| 5 Design Process | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Understand and use the Design Process | |
| 6 Theory 2 | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Demonstrate knowledge of additional theory material | |
| 7 Theory 3 | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Demonstrate further knowledge and understanding of theory material | |

Refer also to: English, Art, Maths, Materials Technology: Metal, Technical Graphics, Science

Work begun | Work in progress | Work completed

Assembly

MTW

Statement Code no: 1

Student:

Class:

At Junior Certificate level the student can:

Work with wood having practised the basic skills appropriate for assembling finished pieces of basic work

Date Commenced: / /

Date Awarded: / /

Learning Targets - This has been demonstrated by your ability to:

- | | | |
|----|--|--|
| 1 | Follow basic woodwork room rules | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 2 | Understand the reasons for safety procedures | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 3 | Understand and follow safety procedures | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 4 | Measure and mark out the material, using the appropriate tools and measuring instruments | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 5 | Design and cut out simple shapes | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 6 | Display manual dexterity through assembly | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 7 | Produce a simple piece of work | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 8 | Produce your own simple solution to a basic woodworking problem | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 9 | Use two mechanical joints (that is, dowels, screws, pavel pins etc.) | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 10 | List the steps needed to make a simple object | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 11 | Examine the finished item you have made and identify the improvements that could be made | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |

Refer also to: English, Art, Maths, Materials Technology: Metal, Technical Graphics, Science

Work begun | Work in progress | Work completed

Theory 1

MTW

Statement Code no: 2

Student:

Class:

At Junior Certificate level the student can:

Display basic background knowledge of woodwork theory

Date Commenced: / /

Date Awarded: / /

Learning Targets - This has been demonstrated by your ability to:

- | | |
|---|--|
| 1 List safety procedures in a workshop | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 2 Label a simple diagram for hardwood (deciduous) or softwood (coniferous) trees | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 3 Recognise at least three trees by their leaves | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 4 Have a basic knowledge of the growth of trees | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 5 Recognise four different manufactured boards | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 6 Identify at least three common wood defects | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 7 Identify and label the common hand tools and state their uses | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 8 Identify and label four given power tools and describe their safe usage | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 9 Identify other relevant materials and understand their safe usage (e.g. fabrics, metals, ceramics etc.) | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 10 Identify four different methods of fixing and fastening | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 11 Identify four common joints and state where they would be used | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 12 Identify four different applied finishes and explain their use | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |

Refer also to: English, Art, Maths, Materials Technology: Metal, Technical Graphics, Science

Work begun | Work in progress | Work completed

Drawings

MTW

Statement Code no: 3

Student:

Class:

At Junior Certificate level the student can:

Interpret and produce basic drawings relating to artefacts made from wood

Date Commenced: / /

Date Awarded: / /

Learning Targets - This has been demonstrated by your ability to:

- | | |
|---|--|
| 1 Interpret a given simple pictorial sketch | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 2 Interpret simple pictorial drawings including dimensioning | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 3 Understand the basic techniques required in orthography | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 4 Understand the fundamentals of scale | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 5 Handle and use drawing equipment properly | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 6 Draw a neat freehand sketch to the appropriate standard for the given purpose | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 7 Draw six basic geometric shapes | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 8 Make simple sketches from observation | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 9 Produce a simple sketch of a finished item | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |

Refer also to: English, Art, Maths, Materials Technology: Metal, Technical Graphics, Science

Work begun | Work in progress | Work completed

Wood Craft

MTW

Statement Code no: 4

Student:

Class:

At Junior Certificate level the student can:

Display a knowledge of basic Wood Craft

Date Commenced: / /

Date Awarded: / /

Learning Targets - This has been demonstrated by your ability to:

- | | | |
|----|--|--|
| 1 | Produce a simple project turned between centres (eg Lamp, Vase) | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 2 | Produce a simple project using a face-plate or chuck (eg Bowl, Plate) | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 3 | Identify the four types of woodcarving (incised, chip, relief, sculpture work or curving in the round) and use any one type to produce an artefact | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 4 | Design and decorate a piece of work using pyrography | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 5 | Construct an artefact by use of laminates (e.g. bracket, salad fork, salad spoon) | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 6 | Use inlay to decorate project work | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 7 | Apply fretwork to enhance project work | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 8 | Use veneers to construct a design or pattern (e.g. chessboard, picture) | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 9 | Prepare a project to a suitable standard in preparation for an applied finish | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 10 | Apply an appropriate finish to any project | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |

Refer also to: English, Art, Maths, Materials Technology: Metal, Technical Graphics, Science

Work begun | Work in progress | Work completed

Design Process

MTW

Statement Code no: 5

Student:

Class:

At Junior Certificate level the student can:

Understand and use the Design Process

Date Commenced: / /

Date Awarded: / /

Learning Targets - This has been demonstrated by your ability to:

- | | |
|--|--|
| 1 List the factors to be considered when analysing the Design Brief | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 2 Research, investigate and gather information on the item or artefact to be made. (eg photographs, catalogues, books) | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 3 Demonstrate, through notes, photographs and sketches, possible solutions to the given brief | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 4 Produce a working drawing (sketch) of how the piece will be assembled | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 5 Prepare a model or prototype of the proposed solution | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 6 List, in correct order, the steps that are required to construct the project | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 7 Demonstrate manual dexterity in marking out, processing and finishing the item or artefact | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 8 Critically evaluate the finished product | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 9 Produce a folio for the given project | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 10 Apply computer graphics to enhance the work | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |

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Theory 2

MTW

Statement Code no: 6

Student:

Class:

At Junior Certificate level the student can:

Demonstrate knowledge of additional theory material

Date Commenced: / /

Date Awarded: / /

Learning Targets - This has been demonstrated by your ability to:

- | | |
|--|--|
| 1 Describe how "air" and "kiln" seasoning work | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 2 List two advantages and two disadvantages of "air" and "kiln" seasoning | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 3 Explain "moisture content" and show how to measure the moisture content of a sample of wood | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 4 Identify the various components of a computer desk system | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 5 Identify computer components as Hardware, Software, Input or Output devices | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 6 List three adhesives, describe what each is used for and give a method of application for each | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 7 Identify three methods of converting timber from a log into planks | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 8 Describe one advantage and one disadvantage of each method of conversion | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 9 List the steps involved in inserting a motif into a veneer | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 10 Describe the processes of Marquetry, Parquetry and Inlaying | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |

Refer also to: English, Art, Maths, Materials Technology: Metal, Technical Graphics, Science

Work begun | Work in progress | Work completed

Theory 3

MTW

Statement Code no: 7

Student:

Class:

At Junior Certificate level the student can:

Demonstrate further knowledge and understanding of theory material

Date Commenced: / /

Date Awarded: / /

Learning Targets - This has been demonstrated by your ability to:

- | | |
|---|--|
| 1 Identify the parts and colour code of a plug | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 2 Identify the parts of a Lathe | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 3 List safety rules to be followed when using the Lathe | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 4 Describe the steps involved in preparing a piece of wood for "between centres turning" | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 5 Describe the processes involved in bending and drilling acrylic | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 6 Separate a list of metals into ferrous and non-ferrous | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 7 List the steps involved in painting a ferrous metal | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 8 Describe the steps involved in transferring a design to a piece of wood for carving | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 9 List three types of carving and briefly describe the steps involved in one of these methods | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 10 Identify the various tools involved in carving | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |

Refer also to: English, Art, Maths, Materials Technology: Metal, Technical Graphics, Science

Work begun | Work in progress | Work completed