At Junior Certificate level the student can:

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

**Refer also to:** English, Art, Maths, Materials Technology: Metal, Technical Graphics, Science
At Junior Certificate level the student can:

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

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

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

Refer also to: English, Art, Maths, Materials Technology: Metal, Technical Graphics, Science
At Junior Certificate level the student can:

Display basic background knowledge of woodwork theory

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

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

Refer also to: English, Art, Maths, Materials Technology: Metal, Technical Graphics, Science
At Junior Certificate level the student can:

Interpret and produce basic drawings relating to artefacts made from wood

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

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

Refer also to: English, Art, Maths, Materials Technology: Metal, Technical Graphics, Science
At Junior Certificate level the student can:

**Display a knowledge of basic Wood Craft**

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

1. Produce a simple project turned between centres (e.g. Lamp, Vase)
2. Produce a simple project using a face-plate or chuck (e.g. Bowl, Plate)
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
4. Design and decorate a piece of work using pyrography
5. Construct an artefact by use of laminates (e.g. bracket, salad fork, salad spoon)
6. Use inlay to decorate project work
7. Apply fretwork to enhance project work
8. Use veneers to construct a design or pattern (e.g. chessboard, picture)
9. Prepare a project to a suitable standard in preparation for an applied finish
10. Apply an appropriate finish to any project

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

MTW

Statement Code no: 5

At Junior Certificate level the student can:

Understand and use the Design Process

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

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

Refer also to: English, Art, Maths, Materials Technology: Metal, Technical Graphics, Science
At Junior Certificate level the student can:

Demonstrate knowledge of additional theory material

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

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

**Refer also to:** English, Art, Maths, Materials Technology: Metal, Technical Graphics, Science
At Junior Certificate level the student can:

Demonstrate further knowledge and understanding of theory material

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

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

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