At Junior Certificate level the student can:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
</table>
| 1 | **Craft and Materials**  
Work with materials having practised the basic skills appropriate for assembling finished pieces |   |
| 2 | **Theory**  
Display basic background knowledge of technology |   |
| 3 | **Technology and Society**  
Display a basic knowledge of the effects of developments in technology on society |   |
| 4 | **Design Brief**  
Compile a design brief for a selected technology project |   |
At Junior Certificate level the student can:

**Work with materials having practised the basic skills appropriate for assembling finished pieces**

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

1. Follow basic technology room rules  
2. Understand the reasons for safety procedures  
3. Understand and follow safety procedures  
4. Understand and be able to make basic drawings, for example, orthographic, isometric and oblique  
5. Measure and mark out the material, using the appropriate tools and measuring instruments  
6. Design and cut out simple shapes  
7. Display manual dexterity through assembly  
8. Produce a simple piece of work  
9. Produce your own simple solution to a basic technology working problem  
10. Understand the uses of joints  
11. List the steps needed to make a simple object  
12. Examine the finished item you have made and identify the improvements that could be made


Work begun: ☐ ☐ ☐ | Work in progress: ☐ ☐ ☐ | Work completed: ☐ ☐ ☐
At Junior Certificate level the student can:

Display basic background knowledge of technology

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

1. Recognise forms of energy, for example, mechanical, chemical, electrical etc.
2. Recognise devices that convert energy from one form to another
3. Learn the units of energy and power
4. Understand structures that maintain shape under load
5. Display an understanding of the use of mechanisms
6. Display an understanding of basic electric circuits, for example, lamp circuit
7. Understand the uses of simple electronic systems
8. Understand the basic uses of pneumatics
9. Understand the basic uses of robotics

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

Display a basic knowledge of the effects of developments in technology on society

Learning Targets: Select any 5 objectives to work on
- This has been demonstrated by your ability to:

6 The technology gap between the first and third worlds
   (a) List two differences between technology in the first and third worlds
   (b) Identify two advantages and two disadvantages of technological developments in the first and third worlds

7 Technology and Industry
   (a) List two aspects of technology in industry
   (b) Identify two advantages and two disadvantages of technology for industry

8 Technology in the Home
   (a) List two aspects of technology in the home
   (b) Identify two advantages and two disadvantages of technology in the home

9 Food Technology
   (a) List two aspects of food technology
   (b) Identify two advantages and two disadvantages of food technology

10 An aspect of the history of design
   (a) In the case of two products, identify the design changes that have occurred over the years
   (b) Identify two advantages and two disadvantages of these changes on the products

At Junior Certificate level the student can:

Compile a design brief for a selected technology project

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

1. Give two reasons for your choice of project from the given selection
2. Design three pieces and choose one, giving reasons for your choice
3. Draw a schematic drawing for each piece of your chosen project
4. List the materials for cutting
5. Record each piece
6. Record the work process involved
7. Record the process involved in assembling the pieces of the project
8. Identify faults in the design, if any
9. Identify difficulties you have come across in designing, making and assembling your project

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

**Work begun** 〇 〇 〇 | **Work in progress** 〇 〇 | **Work completed** 〇 〇 〇