

# Wood Technology

## What is Wood Technology?

**Wood Technology is one of the technology subjects offered at Junior Cycle.** In Wood Technology students will explore the natural and made world through the medium of design, seeking out opportunities to creatively and innovatively apply the material/resource in making and shaping their environment. The sustainable use of and management of this natural resource is important as the world faces the challenges of the 21st century.

**Wood Technology deals with the use and care of tools and with the fundamentals of joinery.** They will also teach basic woodworking techniques such as woodturning and woodburning through various small practical exercises. Processes that will be covered include sawing, chiselling, drilling, design work, weaving, assembly and applying a finish.

## Why should I study Wood Technology?

**Studying Wood Technology gives you the opportunity** to work in a classroom that is active and centred around the students.

**You will learn to work independently** in designing small projects and the skills required to use tools and equipment to make your designs.

## What will I learn?

### Project Design Realisation

- Design briefs/ appraisal
- Design process
- Communication of ideas

### Theory content

- Materials
- Tools and Tooling
- Joints, Fasteners and Fixtures
- Shaping and Forming
- The timber industry
- Health and Safety

## How will I learn it?

**Learning in this subject will be active and student centred**, with learners collaborating in the pursuit of knowledge and in the safe management of the technology classroom environment. Through the challenges posed by the design-based philosophy of the subject, students will develop the relevant knowledge, skills

and values to bring ideas from conception to reality in a way that will allow them to be expressive, creative and innovative.

**Students handcrafting skills will be developed** in a practical classroom setting. Students will be introduced to using hand tools like tenon saws, planes and chisels. Demonstrations will aid the safe use of all hand tools. Theory content will be taught in a classroom-like setting using PowerPoint presentations, note taking, sketching and live demonstrations.

## How will I know how I'm getting on?

**Students will be able to note their progression** throughout the three-year course by critiquing their finished projects under the following areas:

- Quality of finish (sanding, varnishing)
- Quality of joinery
- Quality of design

## How will it be assessed?

**The assessment of Wood Technology for the purposes of the Junior Cycle will comprise:**

### **2 Classroom-Based Assessments:**

- Wood science in our environment
- Self-analysis and evaluation

A Project (70%)

A written examination (30%)

## How will I benefit from studying Wood Technology?

**Students will develop lifelong handcrafting skills**, allowing you to make objects from wood and know how to apply appropriate finishes to them, e.g., paint, varnish, stain or polish.

**Students will develop the necessary conceptual understanding**, disciplinary skills and subject knowledge to design and create artefacts of value

**Students will develop an awareness of sustainability** and the use of natural resources

**Students will develop a range of core design skills** and relevant manipulation skills through modelling and processing wood and other materials

## **Is Wood Technology relevant to any of my other subjects?**

**Wood Technology can be linked to many other subjects**, especially the technology subjects where many of the same skills are involved.

Technical Graphics: Sketching and Detailed drawing of projects

Technology: Project design, materials.

Science: Properties of Wood, Wood Science, how trees grow

Maths: Problem solving, dimensioning, scale