



**NCCA**

An Chomhairle Náisiúnta  
Curaclaim agus Measúnachta  
National Council for  
Curriculum and Assessment

# Junior Cycle Wood Technology Classroom-Based Assessment 2: Example of Student Work 01

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# CBA 2 Wood Technology

## Introduction

I have been doing woodwork for more than 2 years. I tried woodwork in first year and I found it fun and interesting so I decided to pick it as a subject for my junior cert.

I have made 4 projects since I started first year:

- A mobile phone holder
- Birdhouse
- A sports trophy
- A bookend



I will be talking about how I made my projects, my strengths and areas for improvement which include my mistakes and then what I have learned.

# Phone Holder

This was my very first project and because of that I did not know how to use the tools well and I made a lot of mistakes.

- I used a tenon saw to cut out the spaces for the sides and the stand.
- I used the scroll saw to cut out my simple design on the top.
- I used carbon paper to transfer my design from paper to my piece.
- The design was made using a wood burner.



## Joints

To make my joint for the stand of the phone holder, I firstly marked my piece out with a pencil and a ruler, and then cut my waste pieces out with a tenon saw. I lastly fit them together.

tenon saw

To make the sides of my phone holder, I cut spaces out with a tenon saw and then nailed my sides in with a hammer.

Woodburning



# Phone Holder

## Areas of Strength

- I personally like the design I picked for my phone holder.
- I did the woodburning well considering it was my very first time using the woodburner tool.
- I varnished my piece properly and gave it a nice finish



The back of my piece

## Areas for improvement

- My sawing was very choppy and I cut through the wood too much when doing my joint and when cutting the space for the sides.
- I left pencil sketch marks.
- I did not sand my piece enough.

My joint + my mistakes



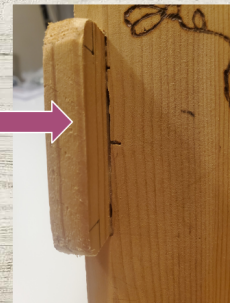
# Phone Holder

## What I learned

I learnt to make sure to rub out my pencil lines as it makes the overall piece look better. I will be more careful when doing my sawing and pay attention to where I'm cutting. I need to make sure to be very precise when I am marking out my piece. I have practiced my sawing but I need to make sure my piece is lined up into the vice straight so that I don't saw sideways. I learned how to do woodburning.



Woodburning tool



# Bookend

Scroll saw



This was my second piece I finished. It was a fairly simple project as it only required two pieces and another small piece for your design.

- I used a scroll saw to cut my design for the top and bottom of the book end. I just went with a simple curve. I also used it to cut out my seashell design.
- I used carbon paper to transfer my design from paper to my piece.
- A woodburner tool was used to burn my design onto my piece.
- I used a tenon saw and a chisel.
- I used glue and a nail to attach my seashell design to the bookend base.
- Varnish was used to give my piece a nicer finish.



## Joints

I marked out my piece with a pencil and then used a tenon saw to cut the lines for my joint. I then used a chisel to remove the wood blocks so that my pieces fit together. I also used a file to smooth out any mistakes I made when chiseling. I fit my pieces using some glue to secure them together.



# Bookend

## Areas of Strength

- The woodburning design I did looked very neat and tidy.
- I varnished and sanded my piece well, which gave it a good finish.
- When gluing my seashell design to my bookend, I did it neat and tidy.
- I did my first finger joint with only a few mistakes.



## Areas for improvement

- The design I picked for my design piece was not easy to cut out on the scroll saw, so it came out jagged.
- There is a couple holes in my finger joint which could have been avoided if I was more careful when filing.
- I should have put another layer of varnish on my piece to give it a nicer finish.

My joint



# Bookend

## What I have learned

I learned how to do a finger joint properly and I have improved my skills on the scroll saw. The scroll saw is a very useful machine that is used for most projects we do so it is a very useful skill to have for future. I also learned how to varnish your piece properly which is very important for every project.



Another angle of my project



Wood varnish



# Bird House

- I used a scroll saw to cut out the design of the roof of my house and the joint to fit my roof pieces together.
- I cut an opening hole in my house using the pillar drill.
- A scroll saw was used to cut my dovetail joint.
- I found use of the nails and a hammer to stick my base onto the sides.
- I also used nails to secure my joint for the roof.
- I used wood filler for any nail holes or imperfections.
- To secure my roof onto my house i used glue.

## Joints

I used a dovetail joint for the side sof my birdhouse. I marked four pieces of wood out and used a tenon saw to cut out the waste pieces. I filed them to size and then fit the four pieces together to make a rectangle which will be the sides of my house.

Wood file



My joint



# Bird House

## Areas of Strength

- The simple joint I used for the roof of my house turned out well and clean.
- I used the pillar drill properly to make my bird hole.
- I sanded my piece to make it smooth and without bumps.
- Three out of four of my dovetail joints came out perfectly.

## Areas for improvement

- I did not get the time to varnish my project as i ran out of time.
- There is a small gap between my roof and the middle of my house that the roof is sitting on.
- One of the dovetail joints I did has a small gap in where I chiseled out too much one one side.

The bird hole



# Bird House

Pillar drill



## What I learned

I learnt how to mark out and how to make a dovetail joint. Next time I make a dovetail joint I will make sure to mark it out perfectly and line up my wood piece with the vice so I dont saw diagonally. I will also be careful to make sure I know where I am filing. I also learnt how to use the pillar drill properly. I also learned to not sand too much as it might affect your projects measurements.

The roof of my birdhouse



Front angle



# Trophy project

This is the most recent project I have done. Although I am used to the tools by now, this is the first relief carving project i have done.

- I used the scroll saw to cut the shape of my base.
- I used carbon paper to transfer my design from paper to my piece.
- I used a wood burner to burn my design onto my piece.
- I used a plane and the lathe to make a pillar to hold my relief carving piece up.
- I used a V-tool and gouge for the relief carving.
- I used varnish to finish my piece.



Wood burning design



V-tool



Gouge tool



## Trophy project

### Carving

For my relief carving I used carbon paper to transfer my design onto my piece. I then used a V-tool to cut a groove along the outline of my design. I then removed the wood using a gouge. I gently striked the gouge into the background to create the illusion that my design is sticking out.

Relief carving



### Joints

I marked out my lathe piece using a pencil and a compass and used a smoothing plane on my piece first before putting it on the lathe. I found a use for a gouge when using the lathe. I used a spigot joint to attach my lathe piece to the base. I used the pillar drill to cut a circle down into my base. I made a cut using the lath at the end of my lathe piece the same diameter as my circle and glued my base and my piece together.

Lathe piece



## Trophy project

### Areas of Strength

- I learn how to use the lathe correctly.
- I did my relief carving well as I believe i did it neatly and I got a good score on my project.
- I sanded my piece and it was smooth and neat.
- I used a hand plane well for my piece before i put it on the lathe.
- I used my time efficiently and got everything finished.



### Areas for improvement

- When I was using the pillar drill I accidentally cut all the way through my base instead of around halfway through.
- My lathe piece was a bit rough and I could have sanded it better.

Smoothing plane





## Trophy project

### What I learned

I learned a lot while making this project. I did a relief carving for the first time. This skill can make any project look better and it is not hard to do so I will be using it in the future. I learned how to use a lathe. Next time I use a lathe I will make sure to sand it down for a smooth finish. These skills will be useful when doing future projects.

I learned how to use my time efficiently and this is very important as you need this skill for every project you do in the future.

Lathe



## Future projects

Overall in all these projects I have learned lots. I have learned how to use numerous tools and have developed skills I did not have before that will be very useful when doing my junior cycle project this year.

I have also improved on my time management which is one of the most if not the most important skill when doing any project.

I have yet to decide what project I will be doing for my junior cycle but I am certain I will use many of the skills have used in these projects.



Internet images were sourced from Google images

## Teacher annotations using the Features of Quality

The annotations capture observations by the teacher, using the features of quality, with a view to establishing the level of achievement this work reflects. The annotations and judgments were confirmed by a Quality Assurance group, consisting of practising teachers and representatives of the NCCA, the Inspectorate, the State Examinations Commission and the Oide support service.

### Teacher annotations

#### Self-analysis of coursework elements:

The student identified a broad range of coursework elements over the course of 1st and 2nd year. This was evidenced using primary photographs of the student's project work. This allowed them to make insightful detailed observations in relation to each coursework element presented and to conduct a comprehensive self analysis on the development of their skills to date.

#### Making judgements:

Judgements made on areas of strengths and areas for improvement were detailed. A high level of awareness was demonstrated of how their judgements would inform future work. A greater level of awareness could have been demonstrated by providing more in-depth learner reflections and by setting goals for improvement for their chosen skills.

#### Communicating their CBA:

The presentation of the findings was of an excellent standard; using a highly effective PowerPoint presentation which contained annotated photographs of completed projects. The presentation allowed for a critical consideration of what information best communicated their Classroom Based Assessment.

Overall judgement:  Exceptional