

BGE TECHNICAL

Working with Wood

Name:

Class:

What you will be learning

Project: _____

<p>As we learn about woodwork and put this into practice in the workshop, you will be assessing yourself as well your teacher assessing how well you are doing.</p> <p>You are going to colour in the box under self assessment in either gold, silver or bronze depending on how well you have achieved each success criteria.</p>	Self Assessment	Teacher Assessment	
Success Criteria for this Unit:			<p>Gold</p> <ul style="list-style-type: none"> I'm confident with this and can explain/ describe/do this independently
I understand work shop safety rules and can follow them			
I can identify the correct tools for measuring and marking out and use these correctly and safely			
I can identify the correct tools for cutting and shaping and use these correctly and safely			
I can use the belt sander and pillar drill correctly and safely			<p>Silver</p> <ul style="list-style-type: none"> I can explain/describe/do this with little help from my teacher or peers.
I can describe the steps for applying a finish to wood and carry these out			
I can explain the benefits of applying a finish			
I can explain the difference between softwoods, hardwoods and manufactured boards			
I can identify at least 1 type of wood from each category			<p>Bronze</p> <ul style="list-style-type: none"> I struggled with this and needed a lot of help from my teacher
I can identify 2 different types of finishes for wood			
I can read a working drawing confidently and take the sizes I need from it			
I can produce a simple sequence of operations for a product manufactured from wood			

Woodworking Tools

Task 1 Fill in the names of the tools below and what they are used for.



Name:

Use:



Name:

Use:



Name:

Use:



Name:

Use:



Name:

Use:



Name:

Use:



Name:

Use:



Name:

Use:



Name:

Use:



Name:

Use:

Machinery & Finishing

Task 2 Fill in the names of the machinery and tools and what they are used for.



Name:

Use:



Name:

Use:



Name:

Use:



Name:

Use:

Task 3 There are many different types of finishes you can apply to wood. Some finishes are more suited to different products. Fill in the missing information below and answer the questions.



Name:

Use:

Q. Describe the steps you need to take before applying varnish to wood.

A. _____

Q. What are the benefits of applying varnish to wood?

A. _____

Types of Wood

There are 3 different categories of wood and many different types which fall into these categories. For example, **pine is a softwood**. Complete the tasks below.

Literacy

Properties

A property of a material is like characteristic or a trait. Different properties make different materials suitable for different things.

For example, a property of aluminium (a type of metal which drinks cans are made from) is that it does not rust. This makes it suitable for cans as when it is full of juice, it won't rust.

Task 4

Fill in the table

	Categories of Wood		
	Hardwoods	Softwoods	Manufactured Boards
Does it come from a tree? Which kind?			
What do the leaves look like?			

Task 5 Research 1 type of hardwood, softwood and manufactured board and complete the table.

	Name	What does it look like?	What are some of it's properties?
Softwood	Pine		
Hardwood			
Manufactured Board			

Task 6

What is a sustainable forest?

Why are these important?

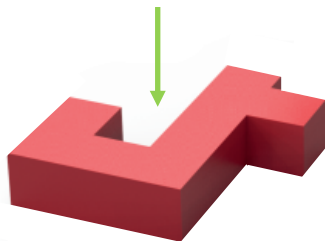
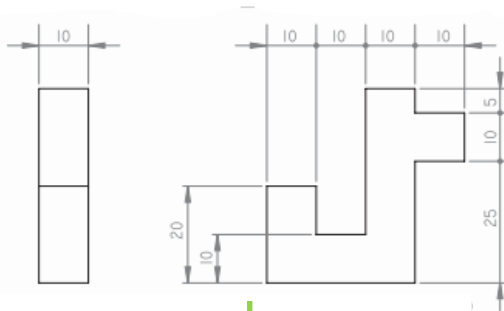
Working Drawings

What is a working drawing?

These are drawings which show the manufacturer (you) how a product will be made. It will include sizes and show how parts fit together. Working drawings can include 2D and 3D drawings.

Example

This shows the front and side of a hook. From this drawing, you can see all the sizes you would need to mark out in order to cut this to the correct shape.



Task 7 Produce working drawings for your project. Add the sizes you use to manufacture it. **Sketch your working drawing in the space below.**

Sequence of Operations

Task 8 Produce a sequence of operations for your woodwork project.

What is a sequence of operations

This is step by step instructions explaining how you would manufacture a product.

Example: *Sequence of operations for making a cup of tea*

Step 1 Fill the kettle with water and boil

Step 2 Get a mug and put a tea bag in

Step 3 Once boiled, pour hot water into the mug

Step 4 Leave teabag in (leave longer for stronger tea)

Step 5 Remove tea bag

Step 6 Optional - add milk and sugar

In the space below and the next page, produce your own sequence of operations for your woodwork project. Think about what you done and in what order in the workshop as well as the names of tools you used. You must include sketches to help explain each step.

Sequence of Operations

Evaluation

Literacy

Evaluation/To Evaluate:

When you evaluate something, you are looking back at it and thinking how well has this been done or can this be done better. You are making judgements.

Now you have completed your first woodwork project, you are going to look back and evaluate yourself. Complete each of the tasks below.

Task 1

Give yourself a rating of either GOLD, SILVER or BRONZE for each area.

Marking Out	
Sawing	
Chiselling	
Drilling	
Finishing	
Safety	
Reading Drawings	



I'm confident and can do this without help from my teacher



I need some help



I struggled with this

Task 2

Something you enjoyed...

Something you would change...

Task 3 Targets for my next practical project:

1.

2.

3.

My Signature _____

Teacher's Signature _____

Date: _____