



Design & Manufacture

Your teacher will inform you of what task to complete through Teams or Glow Email.

Course notes, additional information and tasks (unless explained here) will be in the files sections in Teams.

Once the task is complete, please send to your teacher through either Showbie (Miss Edgar) or Glow Email (Mr Moore)

If you have any issue accessing or uploading completed work, please email your teacher.

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General > **Class Materials**

	Name	Modified	Modified By
📁	Design Notes	March 27	Miss Edgar
📁	Materials and Manufacturing Notes	2 hours ago	Miss Edgar

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General > **Home Learning Tasks**

	Name	Modified	Modified By
📁	Wood Lathe Tasks	5 minutes ago	Miss Edgar
📁	Wood Properties Task	5 minutes ago	Miss Edgar
📁	Woodwork Joints	About a minute ago	Miss Edgar
📁	Woodwork Tools Tasks	5 minutes ago	Miss Edgar
DOC	S2 Task Sequence of Operations.docx	March 26	Miss Edgar
PDF	WB 25th May - Sketching for S2 into S3.pdf	May 26	Miss Edgar

The Wood lathe

- Watch video on the wood lathe <https://www.youtube.com/watch?v=jcokD6zRyrw>. Please ignore the fact this gentleman does not prepare a blank! You only need to watch up to 8mins ☺
- Use course notes to help with tasks.
- Task 1 – Parts of the wood lathe & tools. Answers the questions in the Home Learning Task folder.
- Task 2 – Wood lathe questions. Answers the questions in the Home Learning Task folder.

Preparing a Blank for Turning

- Watch these videos showing the steps of preparing a blank for turning https://www.youtube.com/watch?v=BBp_vimNU9Y https://www.youtube.com/watch?v=AHU_FxT-6c8
 - Write down a list of the tools needed
 - Write down step by step how to prepare a blank.
 - Sketch each step to help explain your answer.

Wood Properties & Uses

- Task 1 : Produce your own notes on Timber and Manufactured Board. You should include facts about
 - Softwoods, hardwoods and manufactured boards.
 - Properties (including aesthetics) and uses of at least 4 types of each wood.
- Task 2 : Answers the questions in the Home Learning Task folder

Manufacturing a cross halving joint

- Watch this video showing the steps of manufacturing a cross halving joint. Please note the marking gauge used a very different to the one we use in the school and the “jesus” pen is just a bog standard pencil.
- <https://www.youtube.com/watch?v=bkFrS7Ah5GY&t=14s>
- Write down a list of the tools needed
 - Write down step by step how to manufacture a cross halving.
 - Sketch each step to help explain your answer.

Woodwork Tools

- Task 1 : Produce your own notes on Timber and Manufactured Board. You should include facts about
 - Softwoods, hardwoods and manufactured boards.
 - Properties (including aesthetics) and uses of at least 4 types of each wood.
- Task 2 :
 - Answers the questions in the Home Learning Task folder

Woodwork Joints

- Task 1 : Sketch and label the following joints:
 - Lap
 - Dowel
 - Corner halving
 - Through housing
 - Cross halving
- Task 2 :
 - Answers the questions in the Home Learning Task folder

Ergonomics

- Read the ERGONOMICS section of the course notes as well as the additional notes. Complete the tasks:
 - Task 1: Cordless drill
 - Task 2: Iron
 - Task 3 : Games controller
 - Task 4 : Bike

The Design Process

- Task 1 : Complete the and complete the table of the stages of the Design Process. Explain what happens and or what activities are carried out at each stage *See additional notes in files section.
- Task 2 : Answers the questions in the Home Learning Task folder

Stage	What happens/Activity
Identify a problem	A problem or design opportunity is created
Design Brief	
Analysis	
Research	
	A list of all the required criteria that the design must do, be or have.
Idea Generation	
Idea Development	
Solution	
Planning for Manufacture	
Manufacture	
	Testing the product to make sure it is fit for purpose and meets the specification.

The Design Team

- Task 1 : Complete the table, explaining the role of each team member and say how/who in the design team they support. *See additional notes in files section.
- Task 2: Create emojis or sketch “characters” for each design team member. Remember to label each.
- Task 3 : Answers the questions in the Home Learning Task folder

Member	Role	Support
Designer	Create and design solutions based on needs and wants of client and consumer	
Market Researcher		
Accountant		Manufacturer, designer, economist
Engineer		
Manufacturer		
Ergonomist		
Economist		
Marketing Team		
Retailer		
Consumer		