

Year: 8

Subject: Design & Technology 10 weeks: Metal work Hooks and hangers

Term	Week	Focus	Summary	Learning Outcomes	Parental Support	Indenpendant Learning
1A	1	Metal work- Hooks and hangers.  Introduction to project	Introduction to lesson. To identify tools, discuss types of Metal e.g. Ferris and non-ferries metal.  Discuss the limitations and considerations of the project. Discussion about the brief, what is the brief then write up the brief followed by the analysis.	To be able to name tools and different type of metal identified for the project.  Students to complete writing brief and analysis	Students to discuss with parents the project they will be making.	
	2	Metal work- Hooks and hangers.  Research and investigation	Design cover sheet <b>Discuss and take ideas from students</b> , research explain what is possible to make	Students will produce a cover sheet for hooks and hangers and be able to produce various ideas for the project.		Students will do internet research to investigate different kinds of hangers on the market.
			Discussion on various types of metal hooks and hanger shapes found on the market and on the internet. Students will first investigate into and then put together on an investigation sheet.	Students will be able to create an investigation sheet with different shapes for their hooks and hanger and develop these ideas.		
3	Metal work- Hooks and hangers  Drawing of Ideas	Discuss ideas that students have drawn, <b>and then each student has to choose a design that is practical</b>	Students will be able to choose what design they will be able to make according to their ability.			

			<b>and within their ability to make, draw an enlarged size and then a development drawing showing measurements and where shapes etc need to be.</b>			
4	Metal work- Hooks and hanger.  Produce final solution	Students to continue design work - colouring etc. Draw final solution. <b>Students must then draw templates (taking sizes from their development drawing) on a given piece of card to transfer onto their given pieces of metal</b>	Students will be able to draw template of their development drawing on card and then transfer to a piece of metal.			
5	Metal work- Hooks and hangers.  Start Project	<b>Explain and make students aware of health and safety in the workshops. Start practical – Name and show the different types of tools and demonstrate how to saw, file and sanding techniques. (I DO, WE DO, YOU DO. Also explain how the metal should be held in the vice and cutting it to shape.</b>	Students will be able to start making their project after learning about the tools that will be used and sawing and filing technics.			After demonstrating sawing, filing and sanding, students will work independently for the rest of their practical work.
6	Metal work- Hooks and hangers.  Practical work	Continue practical – Demonstrate the filing techniques when using different types of files to make different shapes. The metal edges to be filed to the shape of their work	Students will be able to improve their work by filing the metal edges			

			neatly. <b>I DO, WE DO, YOU DO.</b>			
	7	Metal work- Hooks and hangers.  Practical work	Continue practical - proceed with any of the above tasks if not completed. Once completed students must make sure all edges of their projects are smooth and clean.	Students will continue to improve their work.		
	8	Metal work- Hooks and hangers.  Practical work	Continue practical - proceed with any of the above tasks if not completed. <b>The teacher will now assist the pupil to solder the metal hooks to their metal shape and then students will file and sand the rough edges off, till smooth. Holes to be drilled so that it can be screwed to the wall or cupboard etc.</b> (Teacher can give assistance whenever appropriate).	Continue to improve their work for final finish using wet and dry paper.		

Term	Week	Focus	Summary	Learning Outcomes	Parental Support	Indenpendant Learning
<b>1B</b>	9	Metal work- Hooks and Hangers.  Practical work	Continue practical - proceed with the sanding till smooth. The projects can now be spray painted to the colour of student's choice and left to dry. (The teacher should spray the work in a ventilated area)	To improve finishing touches to their work		
	10	Metal work- Hooks and Hangers.		Students will fill in evaluation sheet and do final polishing of work.		



