

Year: 7

Subject: Design & Technology 10 weeks: Metal work: Bangles, Pendants and Key fobs

Term	Week	Focus	Summary	Learning Outcomes	Parental Support	Indenpendant Learning
1A	1	Metal work Introduction to project	Introduction to lesson - (explain about the material that they will use e.g.: where it is used, the different types of metal used (Ferris and non-Ferris). What tools are used to cut the metal to shape? Explain to students how they can create various shapes, abstract and geometric) also show samples of work from previous class. Discussion about the brief, what is the brief then students will write up the brief followed by the analysis. Discuss the considerations and limitations, first getting points from the students.	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 doing over the next ten weeks.	
	2	Metal work Research and investigation	Recap on previous lesson and complete any unfinished work. Discuss ideas with students and explain what is possible to make (taking into account the consideration and the limitation of the project) The students will be given an idea sheet of different shapes as examples. Students will also do an investigation on the	Students will produce an investigation sheet for their Bangle, Pendant and key fob and be able to produce various ideas for the project.		Students will work independently to do an investigation on the different kinds of bangles, pendants and key fobs.

			<p>internet to see the different kinds of bangles, pendants and key fobs that are out there on the market already.</p> <p>Students will then draw their own ideas of at least three different shapes of each Bangle, Pendant and Key fob, developing what has been investigated and discussed wherever possible. Students will also start their coversheets for the project.</p>			
3	<p>Metal work</p> <p>Drawing of Ideas</p>	<p>Discuss ideas that students have drawn, and then each student has to choose a design that is practical and within their ability to make, draw an enlarged size and then a development drawing showing measurements and where shapes etc need to be.</p>	<p>Students will be able to choose what design they will be able to make according to their ability.</p>			
4	<p>Metal Work</p> <p>Produce final solution</p>	<p>Continue design work - colouring etc. Draw final solution. Students must then draw templates (taking sizes from their development/net drawing) on a given piece of card. Transfer onto their given</p>	<p>Students will be able to draw template of their development drawing on card and then transfer to piece of metal.</p>			<p>After students have been shown how to transfer drawing from template they will work independently.</p>

			pieces of metal. (I DO, WE DO YOU, YOU DO).			
5	Metal Work Start Project	Explain and make students aware of health and safety in the workshops. Start practical – Name out 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.	Students will be able to start making their project after learning about the tools that will be used and sawing and filing technics.			After students have been shown how to hold the metal in the vice and how to saw, they will work independently.
6	Metal work Practical work	Continue practical – Demonstrate the filing (I DO, WE DO, YOU DO) techniques when using different types of files to make different shapes. The metal edges to be filed to the shape of their work neatly.	Students will be able to improve their work by filing the metal edges			Students to work independently after demonstration.
7	Metal work Practical work	Continue practical - proceed with any of the above tasks if not completed. Once completed students must make sure all surfaces of their projects are smooth and clean.	Students will continue to improve their work.			Students will work independently to complete project.
8	Metal work Practical work	Continue practical - proceed with any of the above tasks if not completed. The teacher will now assist the pupil to sand the rough edges off the work and then pupils will continue to sand with wet and dry sandpaper till	Continue to improve their work for final finish using wet and dry paper.			

			smooth. (Teacher can give assistance whenever appropriate).			
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Term	Week	Focus	Summary	Learning Outcomes	Parental Support	Independant Learning
1B	9	Metal work Practical work/Assessment	Continue practical - proceed with the sanding till smooth. The projects can now be sprayed 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	Assessment	Continue from previous week, then students will read and fill in evaluation sheets. Finalize all design work to be marked. Projects are completed and given to students to take home.	Students will complete evaluation sheet and work to be marked.		

Term	Week	Focus	Summary	Learning Outcomes	Parental Support	Independant Learning
2A						

Term	Week	Focus	Summary	Learning Outcomes	Parental Support	Indenpendant Learning
2B						

Term	Week	Focus	Summary	Learning Outcomes	Parental Support	Indenpendant Learning
3A						

Term	Week	Focus	Summary	Learning Outcomes	Parental Support	Indenpendant Learning
3B						
