

## Year 9: ASK Yourself!

### Subject: Design and Technology – Materials Technology Unit: Jigs, Joints & Production Processes - Making Task

	Launching 1-2	Developing 3-4	Progressing 5-6	Mastering 7-9
 S skills				
<b>Learn to use hand tools for marking out all three resistant materials.</b>	I need to try to concentrate more on developing accuracy and precision when marking out.	I am able to mark out different materials but need to check the accuracy of it prior to cutting and wasting.	I can mark out wood, metal and plastic with reasonable accuracy.	I can mark out wood, metal and plastic accurately and with precision.
<b>Learn to make three different joints for timber. Join metal using brazing. Joint acrylic using plastic solvent.</b>	I made some of the products for this unit. The final quality of my making will develop if I practice my skills more.	I made at least 2 of the three products to a satisfactory standard. I need to try to complete all of the practical tasks in the time available in lessons.	My 3 practical work outcomes are complete and show that I have learnt and can apply these making skills. I should now concentrate on developing the overall quality of finish.	My 3 practical work outcomes are neat and complete and show that I have learnt and can apply these making skills.
<b>Learn to use the laser cutter and 2D design software to make an acrylic mirror to fit my mirror stand.</b>	I need to continue to learn to use the 2d design software as I did not complete this task fully.	I found it a challenge to draw my mirror. I persisted and made it with support from staff.	I produced my design for my mirror using the 2d design software. I saved it and it was printed by the technician.	I understood and applied the 2d design software to drawer and print an acrylic mirror of my own design to fit my stand.
 K knowledge				
<b>Know and be able to apply the taught joints and methods of construction used to manufacture products in Wood</b>	I know and can explain verbally some of the making processes used during this project.	I know how to mark out at least two joints for timber. I know what brazing is. I know how to use solvent to bond acrylic.	I know how to mark some of the following: Finger joints Tenon joints Dowel joints I know and understand the brazing process. I know how to use	I know how to mark out: Finger joints Tenon joints Dowel joints I know and understand the brazing process. I know how to use solvent to bond

<b>Metal Acrylic</b>			solvent to bond acrylic.	acrylic.
<b>Know what 'jigs' are and how they can be used to simplify manufacturing processes.</b>	I have used 'jigs' to make my products. I need to continue to develop my understanding of them further to be able to explain their purpose.	I have used 'jigs' to make my products. I can explain their use in a basic way.	I have used 'jigs' to make my products. I can explain their purpose in a making situation.	I have demonstrated effective use of 'jigs' to make my products. I can explain their purpose in a making situation.