

Sets (s): 4 lessons Year 8



YEAR 8 – LP2

SUBJECT –Metal& CAD/CAM skills (Pewter casting)
KNOWLEDGE FOCUS: To gain improved skills and knowledge that are transferable, and can be used within other Design and Technology projects.

This half term : Skills, Knowledge and Understanding to be developed:

- To gain an understanding of how to design a mould using 2D Design.
- To use CAD and CAM with confidence.
- To learn and develop definitions of key words needed for the project.
- To develop designing skills and understanding of what makes a successful piece of pewter cast jewellery.

Literacy: WL2,WG3,WG5,WG7c

Key Terms to be learned this half term:

pewter, jewellery, casting, moulding, CAD/CAM, 2D Design, laser cutter, spru, ferrous, non-ferrous, alloy, designing, planning, evaluating& manufacturing.

<p>Week 1 Learning Objectives etc: -To develop designing skills by using the success criteria given to create a range of ideas that are both creative and function. -To ensure final design is complete and user friendly ready to transfer onto 2D Design. Skills: designing skills, rendering skills, dimensions (numeracy). Literacy: WG3,WG7c</p>		<p>Objective assessments: To produce a high quality final design to be used when you start making on 2D Design.</p>	<p><u>Homework:</u> To produce a final design of your pewter idea.</p>
<p>Week 3 Learning Objectives etc: -To understand the basic layout and how to use 2D Design. - To use the final design to transfer the information including measurements and layout onto 2D Design. Skills: problem solving, ICT. Numeracy: Basic measurements off a ruler.</p>		<p>Objective assessments: Outcome of the mould on 2D Design transferred to the laser cutter to create the mould for the jewellery.</p>	
<p>Week 5 Learning Objectives etc: -To draw the design on 2D design accurately including coloured lines for engrave/cut. Skills: designing skills, rendering skills, dimensions (numeracy). Literacy: WG3,WG7c</p>	 <div style="background-color: pink; padding: 5px; width: fit-content; margin: 10px auto;"> APP 2- suitable mould designed on 2d. </div>	<p>Objective assessments: Outcome of the mould on 2D Design transferred to the laser cutter to create the mould for the jewellery.</p>	
<p>Week 7 Learning Objectives etc: -Trial cut first out of card to see if the mould is suitable. If not make changes. If I correct it can be cut out of MDF. Skills: problem solving, ICT. Numeracy: Basic measurements off a ruler.</p>		<p>Objective assessments: To produce an accurate and suitable mould ready for pewter casting</p>	<p><u>Homework</u> Pewter casting research</p>
<p>Week 9 Learning Objectives etc: -Casting the pewter into the molds and finishing of the pewter keyrings with a file and wet and dry. Final stage is to drill and add the keyring ring. Skills: problem solving, ICT. Numeracy: Basic measurements off a ruler.</p>	<div style="background-color: pink; padding: 5px; width: fit-content; margin: 10px auto;"> SA- Finished keyring looks aesthetically pleasing. </div>	<p>Objective assessments: To have a completed keyring with hole drilled and keyring attached.</p>	