

YEAR 6: Keyring Project



Name:

DT Group:

Unit/Topic Overview

Subject Vocabulary

Product Design students are developing their skills and processes in the workshop. They have the opportunity to understand the importance of health and safety and gain an understanding of metal work, including designing a keyring, preparing a mold and finishing techniques using hand tools to create a pewter keyring. A design brief is shared with the students so they can also learn about how a product functions so they are clear on what their product should do.

Students will develop their design skills using CAD/CAM for the first time that will transform their design into a final product of a set of keyrings.

Students then continue to develop their health and safety skills using new hand tools (coping saws, junior hacksaws, files and glass paper.

Pewter Casting

Function

Health & Safety

MDF

Design Brief

CAD/CAM

Specification

Accuracy

Creativity

Evaluate

RAG Rating:

Start

End

Teacher

1.	I can follow health and safety rules and move around the workshop safely.			
2.	I can use the a coping saw correctly and cut a variety of different lines accurately.			
3.	I can show an understanding of what a design brief and design specification is and why it is important.			
4.	I can challenge myself with a variety of different designs that are accurate and follow the design specification .			
5.	I can use the right tools and understood how to create a design using CAD (2D Designer) and have prepared it for CAM (laser cutter).			
6.	I can accurately draw out my design in 2D Designer and on MDF (marking up) and everything fits together..			
7.	I can use a range of hand tools safely to create my keyring/pendant (coping saw, file and junior hacksaw).			
8.	My final product meets the design brief and design specification and functions well as a keyring.			
9.	I can evaluate my product and explain my answers in full sentences and explained why in detail			
10.	I can evaluate my product using correct DT keywords to describe my work.			