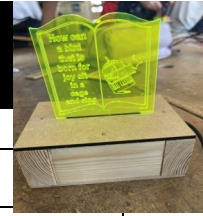


YEAR 7: Mood light Project



Name: _____

DT Group: _____

Unit/Topic Overview

Subject Vocabulary

Product Design students are re-introduced to the workshop. They have the opportunity to develop the importance of health and safety and gain an understanding of wood work, Computer Aided Design and Electronics to create a mood light. Students chose a design brief to follow along with a design specification so they can also learn about how their will product function to meet the requirement. Students will be introduced to technical drawing so their designs can be followed into being manufactured. Students will also develop their CAD/CAM skills.

Students will continue to develop their health and safety skills in Product Design by learning about the soldering process and use a sanding machine to produce a high quality, functional mood light based on their design brief/design specification.

Health & Safety

Function

Design Brief

CAD/CAM

Specification

Soldering

ACCESS FM

Accuracy

Technical Drawing

Evaluate

RAG Rating:

Start

End

Teacher

1. I can follow health and safety rules and move around the workshop safely.

2. I can understand the importance of following a design brief and design specification.

3. I can create a minimum of 4 initial design showing creativity (varied and original designs).

4. I can produce a isometric drawing (technical drawing) and used the techniques taught to produce an accurate technical drawing that follow the right angles and have tried rendering.

5. I can measure and mark up accurately using a ruler and tri square correctly.

6. I can use a tenon saw correctly to cut and the wood joints connect accurately.

7. I can demonstrate how to solder correctly (the right amount of solder, in the right place, and no scorching).

8. -I have put all the components in the right place and tested the LED works.

9. I have shown accuracy in your choice of wood joints (no filler needed).

10. I have used the disc sander safely to create a smooth high quality to you product.

11. I have used 2D Designer to create a design in acrylic which meets the brief and creates a mood light.

12. All components fit into the box and all elements of the mood light fit/work.