

GCSE Product Design at SWGS

Candidate Name: Amelia Burton
Candidate Number: 2216

Task Analysis

Design History
A product is designed for a specific purpose. The designer will consider the needs of the user and the context in which the product will be used. They will also consider the materials and processes available.

Design Process
The design process is a series of steps that a designer follows to create a product. It typically involves research, sketching, prototyping, and testing.

Design Aims
The design aims are the objectives that the designer wants to achieve through their product. These could include functionality, aesthetics, cost, and sustainability.

Design Constraints
Design constraints are limitations that restrict the designer's freedom. These could include time, budget, materials, and user requirements.

Design Evaluation
Design evaluation is the process of assessing the product against the design aims and constraints. This is done through user testing, prototyping, and analysis.

Design Inspiration
Design inspiration is the source of ideas that drive the design process. This can come from nature, art, science, and everyday objects.

Design Communication
Design communication is the way in which the designer shares their ideas and plans with others. This can be through sketches, models, and reports.

Design Production
Design production is the process of turning the design into a physical product. This involves manufacturing and assembly.

Design Presentation
Design presentation is the final stage of the design process, where the designer shows their work to a jury or client. This includes a portfolio of designs and a physical model.



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Initial Ideas - T-shirt

What the target audience thinks I've chosen clients:

- Client 1: The owl design: The best because it's detailed and it fits in well with the woodland theme.
- Client 2: I like the shiny tree because it stands out but also very aesthetically pleasing.
- Client 3: I like the shiny owl because it stands out but also very aesthetically pleasing.

The design that would be suitable for both boys and girls, because it's a neutral design that will appeal to a wide range of people. It's a simple design that is easy to produce and will be well received by the target audience.

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Moulding and Testing - Necklace

How to Make Your T-shirt

Equipment:

- Copper Sheet
- Black Whiteboard Marker
- Black Permanent Marker
- Scissors
- Roller
- Hot Melt Glue
- Hot Melt Gun
- Drinking Gum Solution
- Colour Mixing Powder
- Aluminium Foil
- Alcohol Wiping Cloth
- Masking Tape
- Wire
- Needle and Thread

Method:

- Draw leaf template on copper with Whiteboard marker.
- Draw leaf template on copper with permanent marker.
- Use the marker pen to cut out the leaf template.
- Use a roller to flatten the copper sheet.
- Make the chain and wire as they are made.
- Make a small hole for the chain (if you're making a necklace).
- Roll the chain with metal wool.
- Apply clear adhesive glue.
- Apply adhesive glue.
- Put copper chains into the holes.
- Copper chains cooling down.
- Apply second layer of powder and push them back in to the hole (if necessary).
- Leave to dry in the sun.

Evaluation:

Target Market Feedback:

- It is a good idea to get on my well, but when it gets on my well it gets comfortable.
- The owl design is a good idea, but it's a bit small.
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Commercial Production:

If I was to make my product on a commercial scale, I would use a hot melt gun to apply the glue. This would be faster and more consistent than using a hot melt gun. I would also use a hot melt gun to apply the glue to the chain.



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Testing and Evaluating - Resin Brooch

Specification:

- The product should be comfortable.
- The product should have a range of colours.
- The product must be fairly inexpensive (£2-10).
- The product should have an art nouveau theme.
- The product should have a nature theme.
- The product/packaging should either have the woodland logo or information about the woodland trust.
- The product must appeal to the target audience.

Evaluation:

Has it been met?

- Yes, it has been met.
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