

Design Technology: Creating My Textile Masterpiece

Learning objective: To design and evaluate a functional textile product by applying knowledge of materials, joining techniques, and aesthetic qualities.

Use this scaffold to plan your textile project. Refer to the word bank to help you use precise technical vocabulary when describing your design choices. Think carefully about how your product will be used and who it is for.

To create a high-quality textile product, I must first consider the specific purpose and the properties of the fabric I have selected.

Word bank: durable · stitching · template · aesthetic · seam allowance · functional · fastenings · texture · sustainable · consequently · furthermore · in contrast · specifically

1. Design Brief: Who is your target user and what specific problem or need will your textile product solve? Start with: 'My design aims to assist...' (2 marks)

2. Material Selection: Justify your choice of fabric by comparing two different materials. Why is your chosen fabric more suitable than the alternative? Start with: 'I have decided to use [material] because...' (3 marks)

3. Technical Process: Explain the sequence of steps required to assemble your product. How will you ensure your stitching is secure and accurate? Start with: 'Firstly, I will create a template, then...' (3 marks)

4. Functionality and Fastenings: How will you ensure the product stays closed or stays in place? Explain why this mechanism is the most effective. Start with: 'To ensure the product is functional, I will incorporate...' (2 marks)

5. Aesthetic Decisions: Describe your decorative choices and explain how they reflect the personality or preferences of the user. Start with: 'To enhance the appearance, I have chosen to include...' (2 marks)

6. Evaluation: What might happen if you used a fabric that was not durable enough for the intended use? Justify your choice of material in terms of longevity. Start with: 'If I had used a thinner fabric, the product would likely...' (3 marks)

Extension challenge: Imagine your product is being sold in a shop. Calculate the cost of your materials (e.g., fabric at £2.50 per metre, thread at £0.75, and a button at £0.25). If you wanted to make a 20% profit on each item, what would the final selling price be? Explain the factors that might increase or decrease the cost of production.