

Friday 16 June 2023 – Morning

A Level in Design and Technology: Fashion and Textiles

H405/02 Problem Solving in Fashion and Textiles

Time allowed: 1 hour 45 minutes

You must have:

· the Resource Booklet

You can use:

- a ruler (cm/mm)
- · a scientific calculator
- · geometrical instruments



Please write clearly in black ink. Do not write in the barcodes.								
Centre number						Candidate number		
First name(s)								
Last name								

INSTRUCTIONS

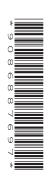
- Use black ink. You can use an HB pencil, but only for graphs and diagrams.
- Write your answer to each question in the space provided. You can use extra paper if you need to, but you must clearly show your candidate number, the centre number and the question numbers.
- Answer all the questions.
- Where appropriate, your answer should be supported with working. Marks might be given for a correct method, even if your answer is wrong.
- Each question tells you which part of the Resource Booklet to refer to.

INFORMATION

- The total mark for this paper is 70.
- The marks for each question are shown in brackets [].
- Quality of extended response will be assessed in questions marked with an asterisk (*).
- This document has 20 pages.

ADVICE

Read each question carefully before you start your answer.



Read the **Resource Booklet** before you answer the questions.

1 Critically examine the factors that make the Oversized T-shirt shown in **Fig. 2** suitable for the manufacturing methods highlighted on **page 2** and **page 3** of the Resource Booklet.

In your answer you **must** consider the following types of manufacturing methods:

•	small batch production high volume production.	[8]

2* Based on customer feedback, Simple Boutique feels its customers would like a new dress line.

Compare and contrast the design proposals shown in **Fig. 5** in meeting the customer feedback provided on **page 4** of the Resource Booklet.

In your answer you **must** consider:

•	versatility after care fabric characteristics.	[12]

3 Simple Boutique is extending its product range as planned. It has developed a design proposal for a fitted dress that could be worn as work wear. To give the fitted dress a smart appearance it needs to include a zip fastening and shoulder pads.

Use sketches and/or notes to show how a zip and shoulder pads could be incorporated within the fitted dress as shown in **Fig. 6** of the Resource Booklet.

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	tools and equipment quality assurance or quality control checks.	[16
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4		ecorative embellishment is to be added to the dress as shown in Fig. 8 of the Resource oklet.					
	Use	Use sketches and/or notes to show how to apply decorative embellishment to this dress.					
	In your answer you must consider:						
	•	the selection of components for machinery embroidery and to reinforce fabric suitability of the fabric health and safety issues for the manufacturer.	[12]				

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- 5 Sam has produced a simple flower design using two different sized rhombus shapes for the petals and a decagon for the centre as shown in **Fig. 9** of the Resource Booklet.
 - (a) Templates of the petals now need to be generated.

Plot the following coordinates of the two rhombus shapes onto the 1 cm grid paper provided:

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Use the information provided on page 7 of the the decagon is 69.2479 cm ² correct to 4 decin	nai piaces. Snow your working.	

6* Simple Boutique has conducted market research to identify ways that other businesses engage with wider customer types.

It would like to collaborate with other brands to develop limited edition ranges of clothing and accessories.

Critically examine how technology and online collaboration will enable Simple Boutique to work with designers and brands from around the world to enhance its product range.

In your answer you **must** consider:

- web or Cloud based software
- video calling or video meetings
- digital visualisations or digital prototyping.

Refer to information on page 8 of the Resource Booklet.	[16]

END OF QUESTION PAPER

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