Surname				Other	Names			
Centre Number				Candidate Number				
Candidate Signature								

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General Certificate of Secondary Education June 2005

## DESIGN AND TECHNOLOGY: TEXTILES TECHNOLOGY (SHORT COURSE) Higher Tier

3557/H





Friday 24 June 2005 1.30 pm to 3.00 pm

In addition to this paper you will require:

a pen, pencil, ruler, eraser, pencil sharpener and coloured pencils.

Time allowed: 1 hour 30 minutes

#### **Instructions**

- Use blue or black ink or ball-point pen. Use pencil and coloured pencils only for drawing.
- Fill in the boxes at the top of this page.
- Answer all questions in the spaces provided.
- All working must be shown.
- Do all rough work in this book. Cross through any work you do not want marked.

#### Information

- The maximum mark for this paper is 100.
- Mark allocations are shown in brackets.
- An insert with body shapes has been provided as a guide for the candidates doing the fashion option.
- Wherever calculations are needed you should show your working.
- You are reminded of the need for good English and clear presentation.

For Examiner's Use		
Number	Mark	
1		
2		
3		
4		
5		
6		
7		
TOTAL		
Examiner's initials		

TP/0205/3557/H 6/6 3557/H

# THERE ARE NO QUESTIONS PRINTED ON THIS PAGE

3
Design Brief
Choose either Option A or Option B:
Option A Dressing-up clothes for children
A national museum is holding a special exhibition to celebrate Native American Indian culture. You are the designer for a manufacturing company. You have been asked to design and make a dressing-up outfit for children.
The outfit must:
• be based on Native American Indian culture;
• include surface decoration;
• be able to take a reasonable amount of wear and tear;
• sell well in the museum shop;
• be suitable for small scale production.
Option B A decorative learning panel for children
A national museum is holding a special exhibition to celebrate Native American Indian culture. You are the designer for a manufacturing company. You have been asked to design and make a decorative learning panel to show young children about the Native American Indian culture.
The panel must:
• show images of Native American Indian culture;
• include surface decoration;
• be able to be hung on a wall;
• sell well in the museum shop;
• be suitable for small scale production.
Tick the box to show which one you have chosen.

You should answer the questions in this paper in the order in which they are written.

Option A Dressing-up clothes

Option B Decorative panel

## Answer all questions in the spaces provided.

## Question 1 is about research to generate design ideas.

1

(a)	Visitors to the museum want to buy products to remind them of what they have seen.
	Explain different ways the designer can get ideas from the exhibition.
	(4 marks)
(b)	Designers often study the work of others for ideas.
	Give <b>two</b> benefits of this.
	1
	2
	(2 marks)



Question	2 is about designing your product.		
<b>2</b> (a)	You have been asked to show your design	ideas.	
	Use the design criteria given in the design	brief for the option you have chosen.	
	(i) Draw and label <b>two</b> different ideas for	or your product.	
	Idea A	Idea B	m anka)
	Choose <b>one</b> of your ideas for develop		marks)
	Tick the box to show the idea you wo		
	Idea A	Idea B	
	(ii) Describe <b>two</b> features of the idea you	have chosen which will help it to sell.	
	1		
	2		
			marks)

QUESTION 2 CONTINUES ON THE NEXT PAGE

(b) Use sketches, labelling and notes to present a final design for your product including the use of surface decoration techniques.

You have this page and the next to present your design.

If you have chosen the dressing-up clothes you must show a back view.

Marks will be awarded for:

•	use of theme;	(4 marks)
•	originality and quality of the design;	(8 marks)
•	use of colour in the product;	(3 marks)
•	use of fabrics and components;	(4 marks)
•	presentation of the final idea.	(3 marks)

(22 marks)

34

## Question 3 is about fabrics.

2	Writa	falle	naint	fabria a	naaifiaa	tion f	or your	nraduat
J	wille a	ioui	pomi	Tautic 5	pecinca	ион і	oi youi	րքսասել.

Explain why you consider each point important.

		(8 marks)
	Because	
4	The fabric must be	
	Because	
3	The fabric must be	
	Because	•••••
2	The fabric must be	
	Because	
1	The fabric must be	•••••



## TURN OVER FOR THE NEXT QUESTION

## Question 4 is about product development.

4 Some textile products sold in the museum shop are decorated with the image shown below.



(a)	Describe <b>two</b> different surface decoration techniques that you could use to create this image.				
	You may use diagrams if you wish.				
	1				
	2				
		(6 marks)			

(b)	(i)	The design team will make a final prototype of a new product.
		Describe how it might be used to help ensure that manufacture is trouble free.
		(5 marks)
	(ii)	The prototype will be used to set standards for the manufacture.
		Give <b>two</b> manufacturing tolerance levels for <b>your</b> product.
		1
		(2 marks)
		2

15

## TURN OVER FOR THE NEXT QUESTION

## Question 5 is about industrial manufacture.

5

(a)	Explain why manufacturers of textile products use quality control systems.
	(5 marks)
(b)	When cutting fabrics, many layers are cut at the same time using a band saw.
	What health and safety precautions would the manufacturer take to ensure the safety of the workforce?
	(6 marks)
(c)	Manufacturers often have some parts of textile products made in another factory.
	(i) Give <b>two</b> benefits of this.
	1
	2
	(ii) Give <b>one</b> problem which this can cause.
	(ii) Give the problem which this can cause.
	(1 mark)

Que	estion	6 is about smart fabrics.	
6	(a)	What are smart fabrics?	
			(2 marks)
	(b)	(i) Describe <b>one</b> smart fabric used in sportswear.	
			(4 marks)
		(ii) Smart fabrics are very expensive.	
		Why might someone buying sportswear think it is worth the extra cost?	
			(3 marks)



TURN OVER FOR THE NEXT QUESTION

## Question 7 is about textile products and the consumer.

7

Study the photographs of the two cushions.	
Answer the questions which follow.	
(a)	Describe <b>one</b> way in which fabric and/or components have been used to add interest.
	(4 marks)
(b)	Evaluate the use of zips to fasten the back of these cushion covers.
	(4 marks)
(c)	As fashion cushions, these designs are intended to have a limited life.
	What are the environmental issues related to the manufacture of such 'throw away' products?
	(6 marks)

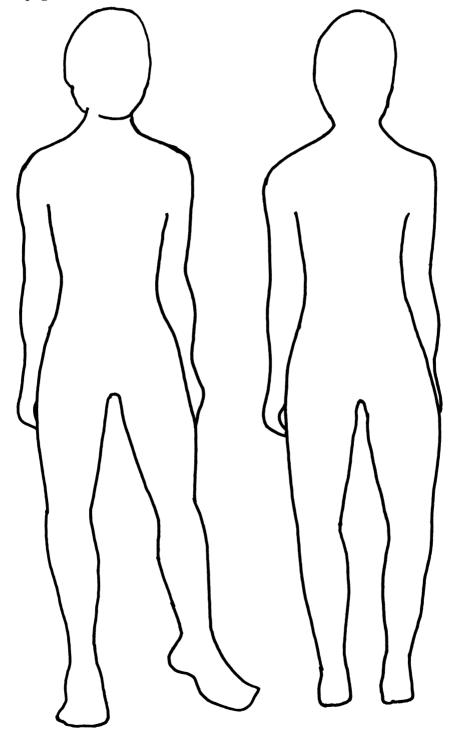
 $\left(\frac{1}{14}\right)$ 



## DESIGN AND TECHNOLOGY: TEXTILES TECHNOLOGY Full and Short Courses

This insert is provided for use in the examination. It may be used as a guide for the Fashion option.

Do not draw on this page.



This insert page should **not** be sent to the examiner.

General Certificate of Secondary Education June 2005

#### DESIGN AND TECHNOLOGY TEXTILES TECHNOLOGY Full and Short Courses





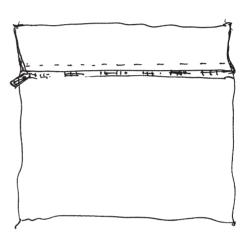
#### **HIGHER TIER**

This insert is provided for use in the examination.

#### **Cushion A**



Front View



Back View



Close up of front

This insert page should **not** be sent to the examiner.

Turn over ▶

## **Cushion B**







Back View



Close up of front