

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)  
Foundation Tier**

3557/F

**F**



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.

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

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.

**THERE ARE NO QUESTIONS PRINTED ON THIS PAGE**

**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;
- 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;
- 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.

**Option A Dressing-up clothes**

**Option B Decorative panel**

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

**Turn over ►**

Answer **all** questions in the spaces provided.

**Question 1 is about using research to generate design ideas.**

- 1 (a) Visitors to the museum want to buy products to remind them of what they have seen.

Explain **two** ways in which a designer can get ideas from the exhibition.

1 .....

.....

2 .....

.....

*(4 marks)*

- (b) The designer will have researched the Native American Indian culture.

List **four** things they might have found out.

1 .....

2 .....

3 .....

4 .....

*(4 marks)*

**Question 2 is about designing your product.**

2 (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 **two** different ideas for your product.

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Idea A

Idea B

*(8 marks)*

Choose **one** of your ideas for development.

Tick the box to show the idea you would choose.

Idea A

Idea B

(ii) Give **one** reason why your idea will sell.

.....  
.....

*(2 marks)*

**QUESTION 2 CONTINUES ON THE NEXT PAGE**

**Turn over ►**

(b) Use sketches, labelling and notes to present a final design for your product.

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)

Turn over ►

**Question 3 is about fabrics for your product.**

3 (a) Products should be environmentally friendly.

Tick the right answer for each of the following.

(i) An environmentally friendly fabric will need to be dyed

- in green colour
- with dyes made without cruelty to animals
- in factories which recycle water.

(1 mark)

(ii) An environmentally friendly product will

- not have a lot of packaging
- have a designer label
- not be fashionable.

(1 mark)

(b) Explain what this label tells the consumer about textile products:



.....

.....

.....

(2 marks)

(c) Write a **three** point specification for the main fabric in your product.

Explain why each point is important.

1 The fabric must be .....

Because .....

2 The fabric must be .....

Because .....

3 The fabric must be .....

Because .....

(6 marks)



**Question 4 is about developing your product.**

- 4 (a) Name **two** different ways of adding colour to your product. Give **one** advantage and **one** disadvantage for *each* way.

Complete the table below.

Way of adding colour	Advantage	Disadvantage
1 .....	..... .....	..... .....
2 .....	..... .....	..... .....

(6 marks)

- (b) The design team will make a *prototype* of a new product.

This may be part of a *user trial* of the product.

- (i) What is a prototype?

.....  
(1 mark)

- (ii) What is a user trial?

.....  
(1 mark)

- (iii) Give **two** reasons for making a prototype.

1 .....

.....

2 .....

.....  
(4 marks)

**Question 5 is about industrial manufacture.**

5 (a) The textile industry uses computers for many different things.

Give **two** ways in which computers can help with **each** of the following.

(i) Cutting out fabric

1 .....

2 .....

(2 marks)

(ii) Keeping a check on components in stock

1 .....

2 .....

(2 marks)

(iii) Putting colour and pattern on to fabric

1 .....

2 .....

(2 marks)

(b) Industrial sewing machines work very fast.

(i) Give **two** dangers when using an industrial sewing machine.

1 .....

2 .....

(2 marks)

(ii) How can you reduce these dangers?

.....

.....

.....

(3 marks)

**Question 6 is about smart fabrics.**

**6 (a)** What are smart fabrics?

.....

.....

.....

*(2 marks)*

**(b)** Describe **one** smart fabric you have researched.

What is special about the features of the fabric? What is it used for?

Fill in the chart below.

Fabric	Special features	What it is used for

*(5 marks)*

—  
7

**TURN OVER FOR THE NEXT QUESTION**

**Turn over ►**

**Question 7 is about existing products.**

7 Study the photographs of the cushion.

Answer the questions which follow.

(a) (i) Explain **one** way in which the **fabric** makes the cushion attractive.

.....  
 .....  
 (2 marks)

(ii) Explain **one** way in which **components** make the cushion attractive.

.....  
 .....  
 (2 marks)

(b) The back of the cushion is fastened with a zip.

Give **one** other fastening which could be used.

Give **one** advantage and **one** disadvantage of using this fastening on this cushion.

Fill in the chart below.

Other fastening	Advantage	Disadvantage
.....	..... .....	..... .....

(3 marks)

(c) The label says that the cushion cover must be dry cleaned.

Explain why it should not be washed.

.....  
 .....  
 .....  
 (3 marks)

(d) If the cushion is to sell it will need to be made to a high standard.

Explain **one** quality check which will be needed on the cushion.

.....  
.....  
(2 marks)

(e) Look carefully at the cushion.

(i) Give **one** way in which you could change the *design* so it is cheaper to make.

.....  
.....  
(2 marks)

(ii) Give **one** way in which you could change the *fabric or components* so it is cheaper to make.

.....  
.....  
(2 marks)

(f) Explain why some textile products are packaged before going to the shops.

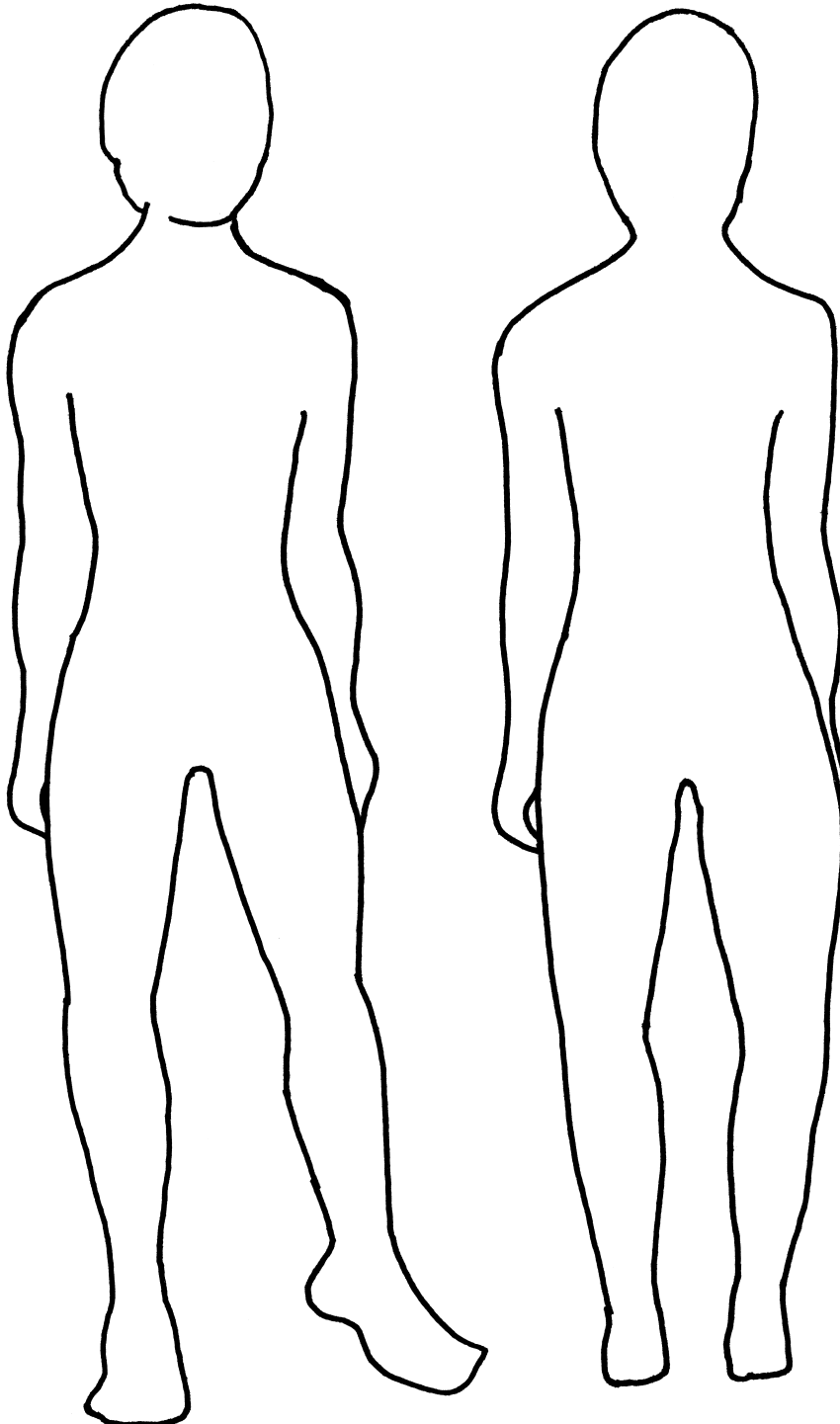
.....  
.....  
.....  
.....  
(4 marks)

**END OF QUESTIONS**

**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.

Insert to

**3547/F 3547/H  
3557/F 3557/H**

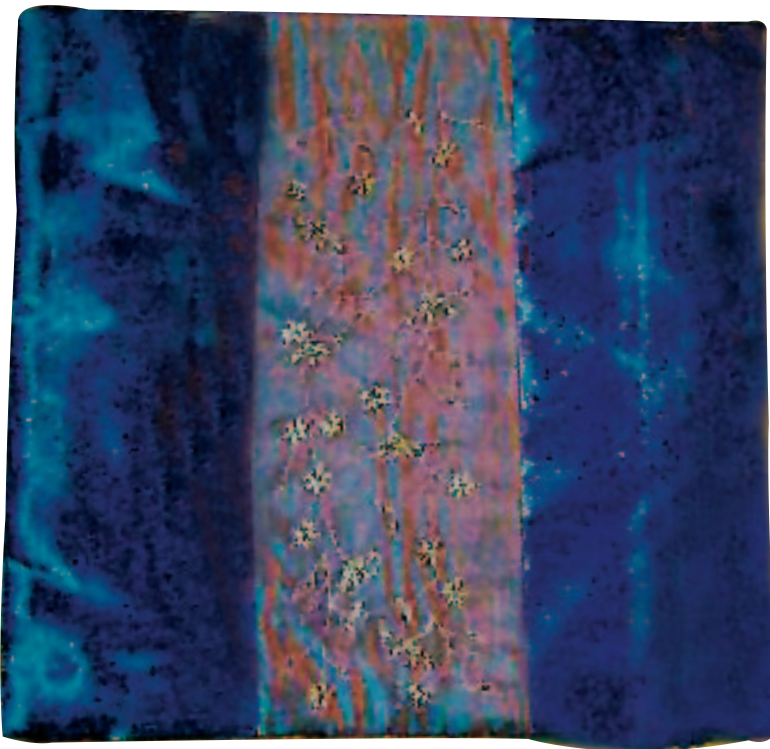
**DESIGN AND TECHNOLOGY  
TEXTILES TECHNOLOGY  
Full and Short Courses**

**F**

**FOUNDATION TIER**

This insert is provided for use in the examination.

**Cushion A**



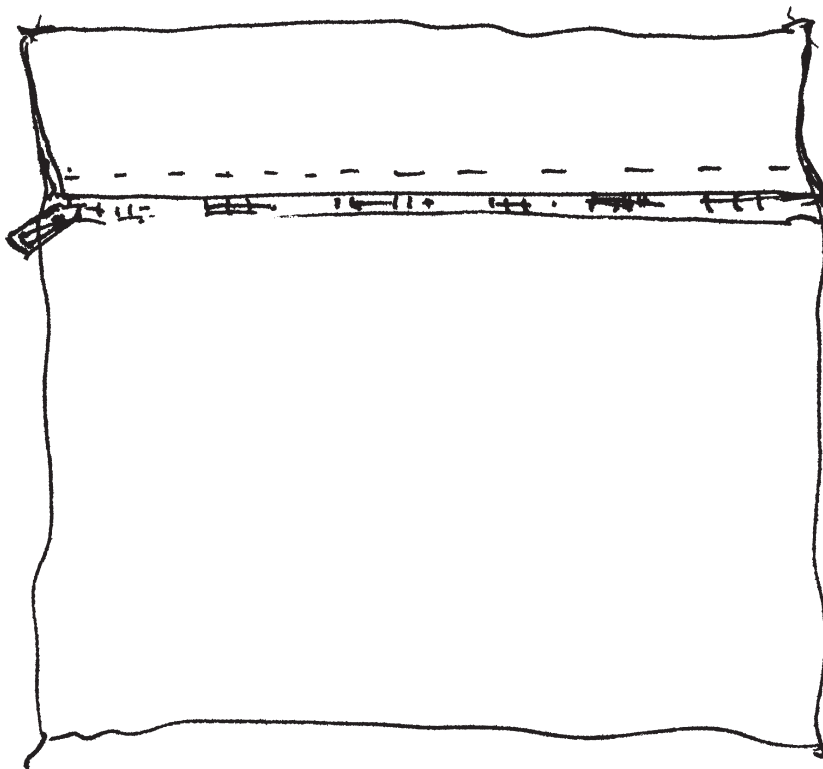
Front View

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

**Turn over ►**



Cushion A – Close up of front



Back view of Cushion A