

Surname		Other Names	
Centre Number		Candidate Number	
Candidate Signature			

Leave blank

General Certificate of Secondary Education
June 2005

**DESIGN AND TECHNOLOGY:
TEXTILES TECHNOLOGY
Foundation Tier**

3547/F

F



Friday 24 June 2005 1.30 pm to 3.30 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	
TOTAL	
Examiner's initials	

Time allowed: 2 hours

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 125.
- 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) The designer must find out what buyers want.

Fill in the chart below.

How to find out what buyers want	Reason 1	Reason 2
(i) Look at what has sold well in the past
(ii) Do a survey of people visiting the museum

(4 marks)

(b) (i) Name **one** place where you could look for ideas for your product.

.....
(1 mark)

(ii) Explain how it would help you when designing your product.

.....

(2 marks)

(c) 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.

--	--

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 **two** reasons why your idea will sell.

1

.....

2

.....

(4 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 ►

34

Question 3 is about fabrics and components 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 each of these labels tells the consumer about textile products.

(i)



.....

.....

.....

(2 marks)

(ii)



.....

.....

.....

(2 marks)

(c) List **three** qualities that will be needed in the fabric for your product.

Explain why each is important.

Quality 1 is

It is important because

Quality 2 is

It is important because

Quality 3 is

It is important because

(6 marks)

(d) The manufacturer's label will have been made in a different factory.

(i) Give **two** advantages of making the label somewhere else.

- 1
- 2 (2 marks)

(ii) Give **one** disadvantage of this.

..... (1 mark)

(e) Describe **two** other components you have used on your product and give **two** reasons for your choice.

Complete the table below.

Component	Description	2 reasons for choice
1	1 2
2	1 2

(8 marks)

TURN OVER FOR THE NEXT QUESTION

Turn over ►

Question 4 is about developing your product.

4 The choice and use of colour is important if your product is to sell.

(a) Describe how you could test different colour effects when developing ideas.

.....

(4 marks)

(b) 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)

(c) The design team will make a prototype of a new product.

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)

(iv) Helping with quality control

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)

Turn over ►

Question 6 is about smart fabrics.

6 (a) What are smart fabrics?

.....

.....

.....

(2 marks)

(b) Describe **two** smart fabrics you have researched.

What is special about the features of the fabrics? What are they used for?

Fill in the chart below.

Fabric	Special features	What it is used for
(i)
(ii)

(2 × 5 marks)

Question 7 is about existing products.

7 Study the photograph of the cushion.

Answer the questions which follow.

(a) (i) Explain **one** way in which *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 **two** other fastenings which could be used.

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

(i) Fastening 1:
(1 mark)

Advantage:
(1 mark)

Disadvantage:
(1 mark)

(ii) Fastening 2:
(1 mark)

Advantage:
(1 mark)

Disadvantage:
(1 mark)

QUESTION 7 CONTINUES ON THE NEXT PAGE

Turn over ►

(c) 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)

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

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

END OF QUESTIONS

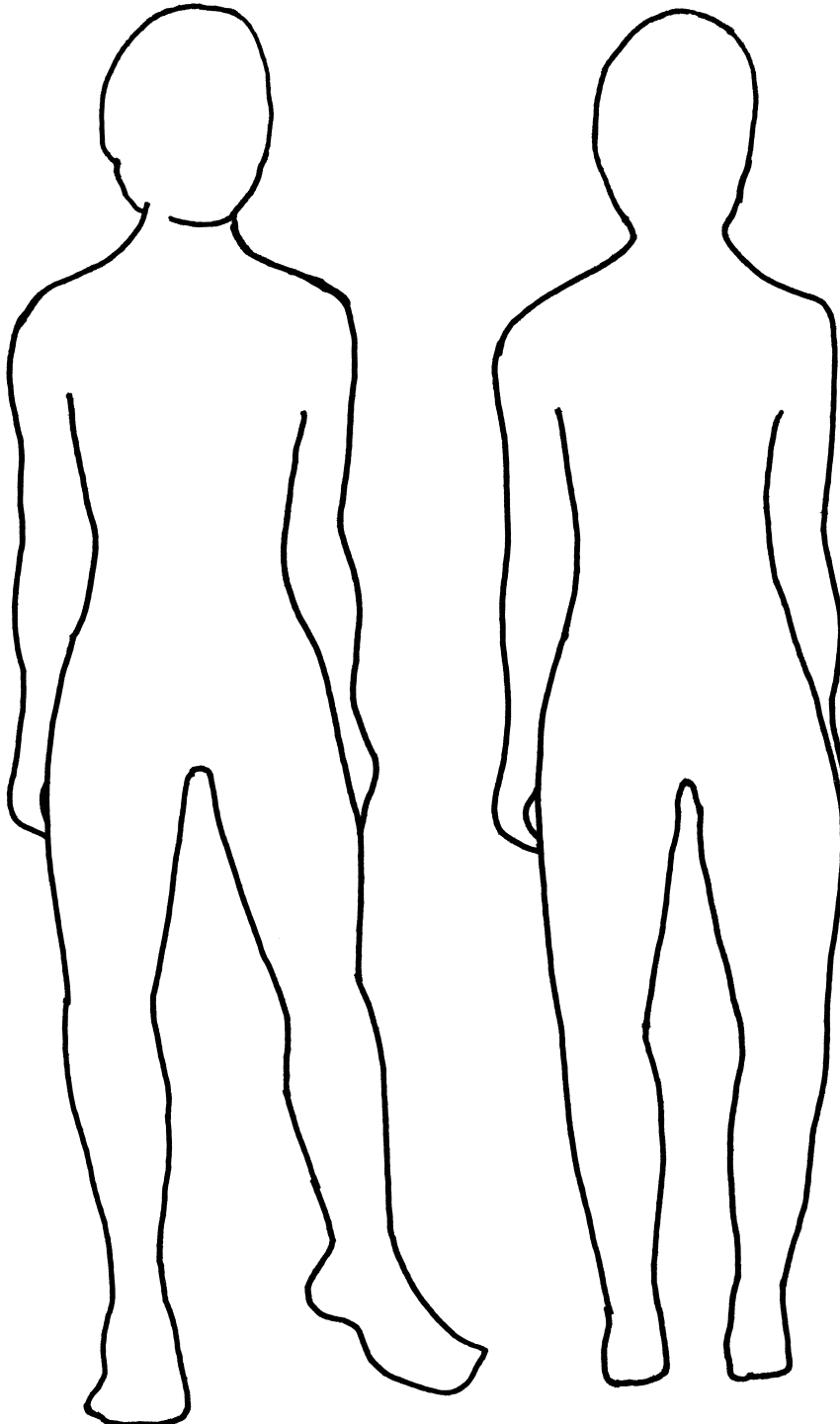
THERE ARE NO QUESTIONS PRINTED ON THIS PAGE

THERE ARE NO QUESTIONS PRINTED ON THIS PAGE

**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**

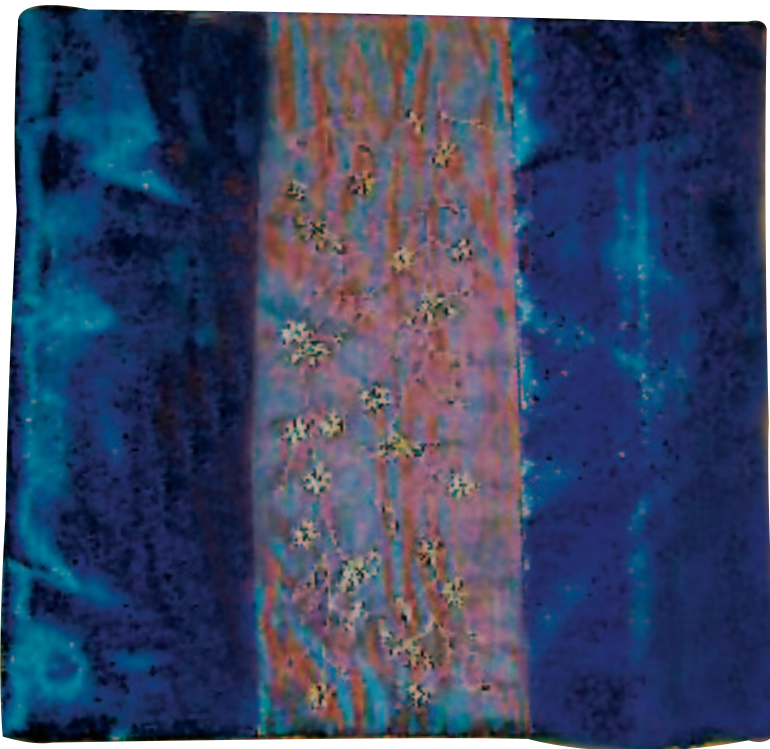
**DESIGN AND TECHNOLOGY
TEXTILES TECHNOLOGY
Full and Short Courses**

F

FOUNDATION TIER

This insert is provided for use in the examination.

Cushion A



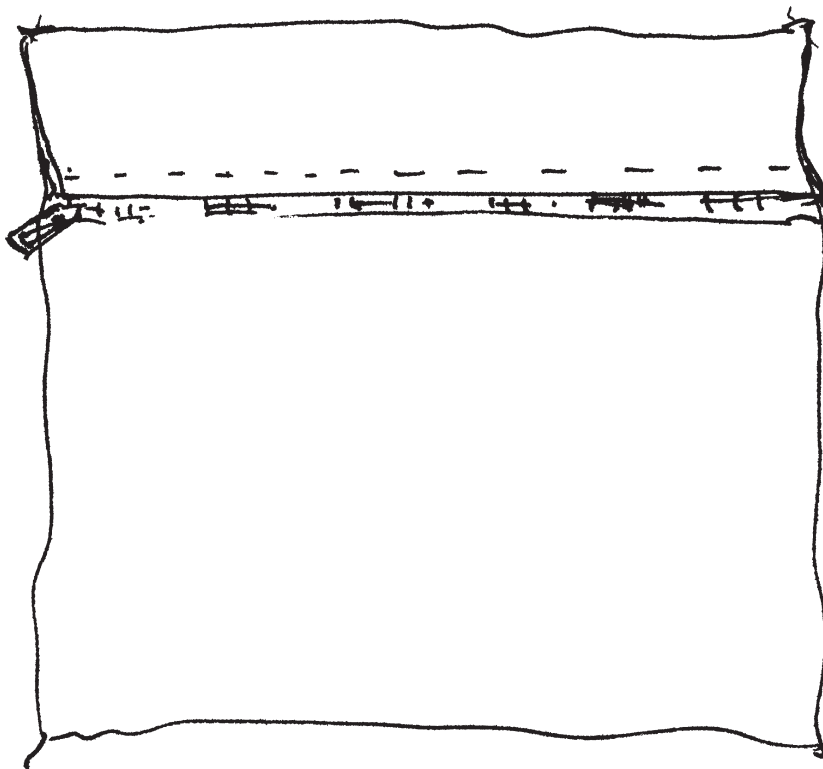
Front View

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

Turn over ►



Cushion A – Close up of front



Back view of Cushion A