

Centre Number						Candidate Number				
Surname										
Other Names										
Candidate Signature										



General Certificate of Education
Advanced Subsidiary Examination
January 2013

Design and Technology: Product Design (Textiles)

TEXT1

Unit 1 Materials, Components and Application

Thursday 10 January 2013 9.00 am to 11.00am

<p>For this paper you must have:</p> <ul style="list-style-type: none"> • normal writing and drawing instruments • an insert sheet (enclosed).

Time allowed

- 2 hours

Instructions

- Use black ink or black ball-point pen.
- Use pencil only for drawing.
- Fill in the boxes at the top of this page.
- Answer **all** questions in Section A.
- Answer **one** question from Section B, **either** Question 6 **or** Question 7.
- Answer Section C.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 80.
- There are 20 marks for Section A, 20 marks for Section B and 40 marks for Section C.

Advice

- Illustrate your answers with sketches and/or diagrams wherever you feel it is appropriate.
- You are advised to spend approximately 30 minutes on Section A, 30 minutes on Section B and one hour on Section C.

For Examiner's Use	
Examiner's Initials	
Question	Mark
1	
2	
3	
4	
5	
6	
7	
8	
TOTAL	



J A N 1 3 T E X T 1

Section A

Answer **all** the questions in this section.

1 Place **each** of the fibres listed below in the correct box of the table. You should use each fibre once only.

Nylon Bamboo Mohair Cotton Tencel® Elastane

Natural cellulose	Natural protein	Regenerated	Synthetic

(6 marks)

6

2 (a) What is the difference between a fibre and a yarn?

.....

.....

.....

.....

(2 marks)

2 (b) Explain the difference between a staple yarn and a filament yarn.

.....

.....

.....

.....

(2 marks)

4



3 Place each of the fabrics listed below in the correct box of the table.
You should use each fabric once only.

Polar fleece Felt Gingham Corduroy Single jersey

Description of fabric	Fabric name
A non-woven fabric often made from wool	
A weft-knitted fabric with different face and reverse sides	
A cut-pile fabric with raised cords which run down the fabric length	
A soft, thick knitted fabric which is brushed on both sides	
A plain weave fabric made with dyed yarns to form a checked pattern.	

(5 marks)

5

4 Name **two** resist methods of applying colour to fabric.

Method 1.....

Method 2.....

(2 marks)

2

5 (a) What is meant by *sub-assembly* manufacture?

.....
.....

(1 mark)

5 (b) Give **two** advantages of using sub-assembly manufacture.

Advantage 1.....

.....

Advantage 2.....

.....

(2 marks)

3

Turn over ▶



Section B

Answer **either** Question 6 **or** Question 7.

6 Designers and manufacturers of textile products have a responsibility to consider environmental and ethical issues.

6 (a) Discuss this statement with reference to the **manufacture and processing of fibres and fabrics** used in textile products.

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....



A large rectangular box containing 25 horizontal dotted lines for writing.

(12 marks)

Turn over ►



A large rectangular box containing 25 horizontal dotted lines for writing.

(8 marks)

20

Turn over ▶



Do **not** answer this question if you have answered Question 6.

7 Look at the picture of the tea cosy shown below.

The main fabric used is plain weave cotton.

The red fabric is cotton needlecord.

Cotton needlecord

Plain weave cotton

Quilted wing

Bias binding



7 (a) Critically evaluate the suitability of the plain weave cotton and the needlecord for the tea cosy.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(6 marks)



7 (b) The tea cosy has a layer of polyester wadding between the main fabric and the inner lining. Explain the reasons for this.

.....

.....

.....

.....

.....

.....

.....

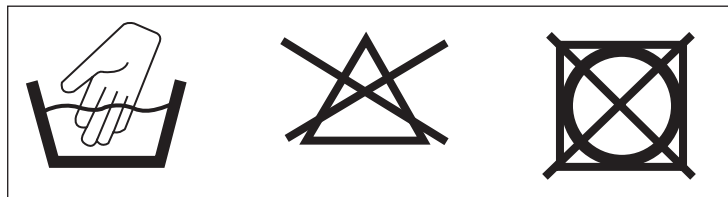
.....

.....

(3 marks)

7 (c) The three symbols shown below appear on the care label attached to the tea cosy.

Give the meaning of each symbol and explain the reasons why this care is recommended for the tea cosy.



.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(5 marks)

Turn over ▶



7 (d) Identify **three** different areas where quality control will be important when manufacturing the tea cosy. In each case explain what care will be needed in order to ensure a high quality product.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(6 marks)

20



Section C

Answer this question.

8 For this question you will need to refer to **Figures 1–5** on the insert sheet.

8 (a) Discuss the requirements that a parent or carer would have when buying a school skirt for a primary school child.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(5 marks)

Question 8 continues on the next page

Turn over ►



8 (c) Primary school children are often required to wear a cover-up garment for messy activities in school.

In the space below, show an original design idea for a cover-up garment. Your design should be:

- appropriate for boys and girls
- suitable for children aged 5–7 years
- easy to care for
- inexpensive to manufacture.

Annotate your design to show the fabric and features and explain why they are appropriate.



[Empty box for writing]

(8 marks)

Turn over ▶



8 (f) The skirts are sold at a budget price in a supermarket.

Evaluate this popular method of retailing clothing products.

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

END OF QUESTIONS

(6 marks)

<hr/> 40



There are no questions printed on this page

**DO NOT WRITE ON THIS PAGE
ANSWER IN THE SPACES PROVIDED**



There are no questions printed on this page

**DO NOT WRITE ON THIS PAGE
ANSWER IN THE SPACES PROVIDED**



There are no questions printed on this page

**DO NOT WRITE ON THIS PAGE
ANSWER IN THE SPACES PROVIDED**

ACKNOWLEDGEMENT OF COPYRIGHT-HOLDERS AND PUBLISHERS

Permission to reproduce all copyright material has been applied for. In some cases, efforts to contact copyright-holders have been unsuccessful and AQA will be happy to rectify any omissions of acknowledgements in future papers if notified.

Copyright © 2013 AQA and its licensors. All rights reserved.

