

Centre Number						Candidate Number				
Surname										
Other Names										
Candidate Signature										

For Examiner's Use	
Examiner's Initials	
Question	Mark
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
TOTAL	



General Certificate of Education  
Advanced Subsidiary Examination  
June 2013

# Design and Technology: TEXT1 Product Design (Textiles)

## Unit 1 Materials, Components and Application

Tuesday 14 May 2013 9.00 am to 11.00 am

**For this paper you must have:**

- normal writing and drawing instruments.

**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 8 or Question 9.
- 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.



J U N 1 3 T E X T 1 0 1

**Section A**Answer **all** the questions in this section.**1 (a)** What is meant by the term *regenerated fibre*?

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(2 marks)

**1 (b)** Give **one** example of a regenerated fibre.

.....

(1 mark)

**2** Indicate if the following statements are true or false.

Tick the correct box.

**2 (a)** Velvet has a directional pile.

True

False

(1 mark)

**2 (b)** The symbol shown below means *do not dry clean*.

True

False

(1 mark)

**2 (c)** The symbol shown below tells a consumer that a product is made from 100% wool.

True

False

(1 mark)

3

3



3 Explain the differences between the warp and weft yarns used to produce woven fabrics.

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(3 marks)

3

4 Elastane fibres are often added to fabric blends.  
What special qualities does an elastane fibre give to a fabric?

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(2 marks)

2

5 What is meant by the term *grading* in relation to pattern templates?

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(1 mark)

1

**Turn over for the next question**

**Turn over ▶**



6 Complete the table below by putting a material from the following list next to the correct description.

- Petersham                      Underlining                      Boning  
Interfacing                      Bias binding                      Interlining

You should not use any of the materials more than **once**.

Description of material	Material
Strengthens and supports a part of the product.	
A narrow fabric cut on the cross and used to neaten edges.	
Cut to the same shape as the main fabric and used to prevent a garment being see-through.	
Narrow flexible strips used to stiffen seams or edges.	
A layer of fabric between the main fabric and the lining, used for insulation.	

(5 marks)

7 The labelling and packaging of textile products provides important information such as care advice.

Give **three** other different types of information found on the labelling of textile products.

**Type 1** .....

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**Type 2** .....

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**Type 3** .....

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(3 marks)

5
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**Section B**

Answer **either** Question 8 **or** Question 9.

**8** Look at the pictures of the special occasion dresses shown below.

**Dress A**



**Dress B**



**8 (a)** **Dress A** is made from polyester chiffon with a polyester satin lining.  
Evaluate the suitability of these fabrics for special occasion dresses.

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**Turn over ▶**

















**9 (b)** Describe **one** modern or smart textile material which is used for high performance sportswear.

Explain how it can benefit the user.

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(5 marks)

<b>20</b>



**Section C**

Answer this question.

- 10** Look at the photographs of the decorative doorstop shown below. The doorstop is in the shape of a caravan.

**Front view**



**Side view**



**Back view**



- 10 (a)** A felted fabric has been used for the top of the doorstop.

Describe how a felted fabric is made. You may use diagrams.

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(4 marks)

**Turn over ▶**





**Question 10 continues on the next page**

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

**Turn over ▶**



**10 (d)** The doorstep is in the shape of a caravan. The manufacturer wants to extend the range of these doorstops to include different forms of transport.

Using this page and the next page, show how you could modify the basic design shown on page 13 to make another doorstep in the range. Include information about fabrics, components and decorative techniques to be used.





[Empty box for writing]

(8 marks)

Turn over ▶



**10 (e)** Explain how the making of prototypes of the doorstep would help:

- the designer
- the manufacturer.

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*(5 marks)*

**10 (f)** The fabric for the base of the doorstep, shown on page 13, has been tested to ensure that it is durable enough to stand up to the expected wear and tear.

Describe a test that the fabric technologist might have carried out to check the durability of the fabric.

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Question 8: Dress B, V & A

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