



General Certificate of Education  
Advanced Level Examination  
June 2013

# Design and Technology: Product Design (Textiles)

## TEXT3

Unit 3 Design and Manufacture

Tuesday 4 June 2013 9.00 am to 11.00 am

**For this paper you must have:**

- an AQA 12-page unlined answer book which is provided separately
- normal writing and drawing instruments.

**Time allowed**

- 2 hours

**Instructions**

- Use black ink or black ball-point pen. Use pencil and coloured pencils only for drawing.
- Write the information required on the front of your answer book. The **Examining Body** for this paper is AQA. The **Paper Reference** is TEXT3.
- Answer **three** questions.
- Answer **one** question from each of Sections 1 and 2, and **one** other question from either section.
- If you choose to answer a question which has several parts, you should answer **all** parts of this question.
- Do all rough work in your answer book. Cross through any work that you do not want to be marked.

**Information**

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 84.
- You will be marked on your ability to:
  - use good English
  - organise information clearly
  - use specialist vocabulary where appropriate.

**Advice**

- Illustrate your answers with sketches and/or diagrams wherever you feel it is appropriate.

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Answer **three** questions.

Answer **one** question from each of Sections 1 and 2 and **one** other question from either section.

For each question that you answer, you should answer all parts of that question.

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### Section 1

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#### Question 1

0	1
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 Each of the following has influenced the style of 20th and 21st century fashions:

- the rise of youth culture
- war and conflict
- sport
- the role of women.

Select **two** from the list above and in each case analyse their impact on fashion.  
Make reference to specific styles and designers as appropriate. (2 × 14 marks)

**Question 2** Answer all parts of this question.

0	2
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 Discuss what is meant by *comfort* in relation to clothing by explaining how different fibres, yarns and fabrics can affect the comfort of the wearer. Include examples of specific products in your answer. (12 marks)

0	3
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 Describe a range of modern/smart fabrics or finishes that have been developed to increase the comfort of clothing. Include examples of specific products in your answer. (16 marks)

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**Question 3** Answer all parts of this question.

0	4
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Well designed, marketable products are vital for the success of companies who manufacture textile products.

Analyse the value of **two** of the following for the designer of textile products:

- trade fairs
- trend prediction companies
- shop reports/sales figures.

You should give examples to support the points you make.

*(12 marks)*

0	5
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In what ways have issues relating to the environment and ethical trading influenced consumers' attitudes to buying textile products?

Give examples to support the points you make.

*(16 marks)*

**Turn over for Section 2**

**Turn over ▶**

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**Section 2**

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**Question 4** Answer all parts of this question.

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|---|---|
| 0 | 6 |
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 Fabric manufacturers apply colour to fabric so that it will be appropriate for its intended use. Explain the different processes which fabrics may need to go through in order to prepare them for dyeing and printing. (8 marks)
- |   |   |
|---|---|
| 0 | 7 |
|---|---|

 Describe **two** different commercial methods of printing a pattern onto fabric. You may use diagrams. (2 × 6 marks)
- |   |   |
|---|---|
| 0 | 8 |
|---|---|

 State what is meant by the term *colour fastness*. Discuss the need for different types of colour fastness in relation to the intended use of a fabric. (8 marks)

**Question 5** Answer all parts of this question.

**0 9** Contemporary textile products for the home are often designed as part of a co-ordinated range. This may include ranges for the bedroom, kitchen/dining and living areas.

Look at the cushion shown below.



Explain how the decorative features could be used to inspire a co-ordinated range of textile products for the home. You may use diagrams and sketches. (6 marks)

**1 0** Fabrics and techniques add texture and interest to this cushion. Describe in detail **one** method of manipulating fabric which will add texture to a product for the home. (6 marks)

**1 1** Discuss the benefits to the consumer of buying branded textiles for the home. (6 marks)

**1 2** Discuss the reasons why textile products are designed and manufactured in different parts of the world. Include reference to the benefits and drawbacks of globalised manufacture. (10 marks)

**Turn over for the next question**

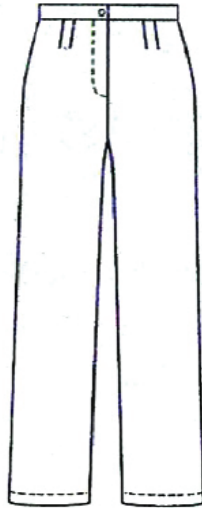
**Turn over ▶**

**Question 6** Answer all parts of this question.

**1 | 3**

A manufacturer is planning to make a range of trousers for casual wear. The basic style of the trousers shown below needs to be adapted to reflect current trends.

**Front of trousers**



**Back of trousers**



The designer has been given the design criteria below.

The trousers must:

- use a range of components
- include pockets
- be made from two different fabrics
- be suitable for the mid-price market.

Using notes and sketches show your ideas for developing the basic trousers to make them more fashionable. Explain how your design meets the design criteria given above. (10 marks)

**1 | 4**

Explain how the use of a Just in Time (JIT) system would benefit **both** the manufacturer and retailer of the trousers. (6 marks)

**1 | 5**

The production of the trousers will involve the use of automated machinery. Describe how Computer-Aided Manufacture (CAM) will be used for a range of different processes in the manufacture of the trousers. (12 marks)

**END OF QUESTIONS**

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