

Wednesday 22 May 2013 – Afternoon

GCSE DESIGN AND TECHNOLOGY
Textiles Technology

A574/01 Technical Aspects of Designing and Making

Candidates answer on the Question Paper.

OCR supplied materials:

None

Other materials required:

None

Duration: 1 hour 15 minutes

MODIFIED LANGUAGE



Candidate
forename

Candidate
surname

Centre number

Candidate number

INSTRUCTIONS TO CANDIDATES

- Write your name, centre number and candidate number in the boxes above. Please write clearly and in capital letters.
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Read each question carefully. Make sure you know what you have to do before starting your answer.
- Write your answer to each question in the space provided. If additional space is required, you should use the lined page at the end of this booklet. The question number(s) must be clearly shown.
- Answer **all** the questions in Section A **and** Section B.
- Do **not** write in the bar codes.

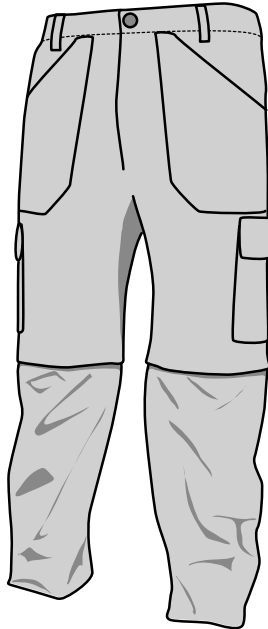
INFORMATION FOR CANDIDATES

- The number of marks is given in brackets [] at the end of each question or part question.
- The total number of marks for this paper is **60**.
- Your quality of written communication is assessed in the questions marked with an asterisk (*).
- This document consists of **12** pages. Any blank pages are indicated.

2
SECTION A

Answer **all** questions.

- 1 Fig. 1 shows a pair of trousers designed for outdoor pursuits.



Design Features

- elasticated waistband
- zip fastening
- belt loops
- shrink and fade resistant
- quick drying
- reinforced seat and knees
- made from a heavy duty Dupont with Teflon fabric protector
- ankle zip opening
- can remove lower leg to convert to shorts
- multi pocketed

Fig. 1

- (a) Choose **three** design features of the trousers.

Explain why each design feature is of benefit to the wearer when doing outdoor pursuits.

Feature 1

Benefit

.....

.....

Feature 2

Benefit

.....

.....

Feature 3

Benefit

.....

.....

(b) List **three** pre-manufactured components used to make the trousers.

1

2

3

[3]

(c) Give **three** reasons why manufacturers use pre-manufactured components.

1

.....

2

.....

3

.....

[3]

[Total: 12]

- 2 Fig. 2 shows a school jumper made from knitted fabric.



Fig. 2

- (a) (i) State **one** technique that could be used to add the school logo to the jumper.

..... [1]

- (ii) Give **one** reason for your choice of technique.

..... [1]

- (b) The knitted fabric is made from wool fibres.

Name the process used to make the wool fibres into yarn.

..... [1]

- (c) The school jumper will be manufactured in quantity.

Give **three** advantages of using industrial cutting tools rather than scissors when manufacturing in quantity.

1

.....

2

.....

3

.....

[3]

(d)* Describe the advantages of using acrylic fibres rather than wool fibres for school jumpers.

Marks will be awarded for the quality of written communication in your answer.

..... [6]

[Total: 12]

- 3 Fig. 3 shows a symbol found on a packet of cold water dye.

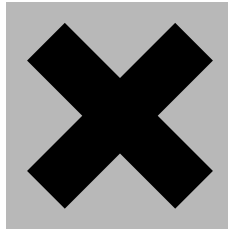


Fig. 3

- (a) Give the meaning of the symbol shown in Fig. 3.

..... [1]

- (b) Cold water dyes are covered by COSHH regulations.

Name **two** other substances covered by COSHH regulations.

1

2 [2]

- (c) List **three** items of protective clothing that you should wear when working with dyes.

1

2

3 [3]

(d) Batik is a decorative dyeing technique.

Complete the table below to describe how to work batik.

Stage	Method
Preparation of fabric	
Preparation of dyebath	
Applying wax	
Creating an interesting effect	
Dyeing the fabric	
Removing the wax	

[6]

[Total: 12]

SECTION B

Answer **all** questions.

- 4** A local college wants to supply its students with bags to carry their books and equipment.

The bag should be:

- easy to carry
- unisex
- environmentally friendly.

- (a)** In the space below sketch a design for the student bag.

Annotate your sketch to show design and construction details and how it meets the specification.

(b)* Explain the benefits of producing a prototype before manufacturing in quantity.

Marks will be awarded for the quality of written communication in your answer.

..... [6]

[Total: 12]

- 5 Fig. 4 shows a denim jacket made using double stitched seams.



Fig. 4

- (a) Describe, using notes and / or diagrams, how to work a double stitched seam.

- (b) Fig. 5 shows the weave used to make the denim fabric.

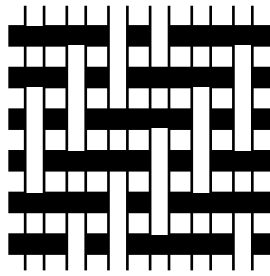


Fig. 5

Name the weave shown in Fig. 5.

..... [1]

- (c) Give **two** reasons why the weave shown in Fig. 5 is suitable for the jacket fabric.

1

.....

2

.....

[2]

- (d) Fig. 6 shows a symbol found on the care label inside the denim jacket.



Fig. 6

State what the symbol means.

..... [1]

- (e) State **two** ways an old denim jacket could be modified to extend its use.

1

.....

2

.....

[2]

[Total: 12]

END OF QUESTION PAPER

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