



NSW Education Standards Authority

--	--	--	--	--

Centre Number

--	--	--	--	--	--	--	--	--	--

Student Number

**2024** HIGHER SCHOOL CERTIFICATE EXAMINATION

# Textiles and Design

---

## General Instructions

- Reading time – 5 minutes
- Working time – 1 hour and 30 minutes
- Write using black pen
- Write your Centre Number and Student Number at the top of this page

---

## Total marks: 50

### Section I – 10 marks (pages 2–4)

- Attempt Questions 1–10
- Allow about 15 minutes for this section

### Section II – 24 marks (pages 5–9)

- Attempt Questions 11–13
- Allow about 45 minutes for this section

### Section III – 16 marks (pages 10–13)

- Attempt BOTH Question 14 and Question 15
- Allow about 30 minutes for this section

## Section I

10 marks

Attempt Questions 1–10

Allow about 15 minutes for this section

Use the multiple-choice answer sheet for Questions 1–10.

---

- 1 Which of the following can form bicomponent yarns?
- A. Wool/nylon
  - B. Polyester/nylon
  - C. Wool/elastomeric
  - D. Cotton/elastomeric
- 2 Contemporary textile designers develop products to cater for changing consumer demands.
- Which of the following products is an example of this?
- A. Viscose rayon tablecloth
  - B. Elastomeric shopping bag
  - C. Recycled polyester T-shirt
  - D. Dry clean only microfibre jacket
- 3 Which statement best demonstrates an effect of globalisation on the textile industry?
- A. Textile product choice has been reduced.
  - B. Cheaper textile goods are more readily available.
  - C. New textile production methods are difficult to implement.
  - D. Pollution caused by textile production has decreased in developing countries.

- 4 A sportswear company finds that profits for a well-known product have declined throughout the last year and new competitors are entering the marketplace.

Which of the following would be the most effective strategy for the sportswear company to extend the product's life cycle?

- A. Develop new innovative features for the product
  - B. Change the material used to package the product
  - C. Reduce the price to clear the excess stock of the product
  - D. Complete market research to find the target market for the product
- 5 Which of the following is an example of an external factor that can influence the success of a designer?
- A. A design degree from a university
  - B. A bank loan to expand the business
  - C. Increased tariffs on imported goods
  - D. Upgrading manufacturing facilities to improve production
- 6 Wool fibre is now used as cold storage package insulation.

Why is wool fibre suitable for this use?

- A. It is a natural fibre.
  - B. It is abrasion resistant.
  - C. It is an inexpensive fibre.
  - D. It is a poor conductor of heat.
- 7 Which combination of fibre, yarn and fabric structure would be the most suitable for a loose, lightweight, casual pair of pants that will be comfortable while travelling long distances?

	<i>Fibre</i>	<i>Yarn</i>	<i>Fabric structure</i>
A.	Rayon	High twist staple spun	Plain weave
B.	Cotton	Staple spun	Pile weave
C.	Wool	Low twist staple spun	Pile weave
D.	Nylon	Slub yarn	Plain weave

- 8 Which statement is true about a current issue that affects the Australian textile industry?
- A. Australia recycles more textile products than it imports.
  - B. It is easy to find highly skilled textile workers in Australia.
  - C. There are more Australian textile products exported than imported.
  - D. Australia is one of the largest consumers of textiles per person in the world.
- 9 Which row of the table correctly identifies aspects of printing and dyeing of fabric?

	<i>Printing</i>	<i>Dyeing</i>
A.	There is a limit to how many colours can be applied at once.	Colours are applied one at a time.
B.	Heat setting is often required.	Mordants are often required.
C.	Coloured solution is placed in a vat.	Colours are placed on stencils.
D.	Pigments are used.	Pastes are used.

- 10 The fibre composition of three long-sleeved knitted shirts is shown in the table.

<i>Shirt 1</i>	<i>Shirt 2</i>	<i>Shirt 3</i>
50% cotton 50% wool	100% cotton	100% wool

Which statement about the fabric in Shirt 1 is correct?

- A. It is not as strong as the fabric in Shirt 3.
- B. It has less resilience than the fabric in Shirt 2.
- C. It has greater elasticity than the fabric in Shirt 2.
- D. It is more flame resistant than the fabric in Shirt 3.

--	--	--	--	--

Centre Number

# Textiles and Design

--	--	--	--	--	--	--	--	--

Student Number

## Sections II and III

### Answer Booklet

**Instructions**

- Write your Centre Number and Student Number at the top of this page.
- Use this answer booklet for Sections II and III.
- Answer BOTH sections.
- Follow the instructions inside this booklet as to where you should write your answers.

**Please turn over**

**Section II**

**24 marks**

**Attempt Questions 11–13**

**Allow about 45 minutes for this section**

Answer the questions in the spaces provided. These spaces provide guidance for the expected length of response.

---

**Question 11 – Australian Textile, Clothing, Footwear and Allied Industries**  
(8 marks)

- (a) How does the government address environmental issues in relation to the Australian textile industry? **2**

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

- (b) Compare the distribution of mass-produced and niche textile products. **3**

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

**Question 11 continues on page 7**

Question 11 (continued)

- (c) Consumer demand for textile items is growing. At the same time, consumers have become more aware of the impact of textiles on the environment.

3

Explain how the textile industry can address these conflicting demands.

.....

.....

.....

.....

.....

.....

.....

.....

.....

**End of Question 11**

**Please turn over**

Do NOT write in this area.

**Question 12 – Design (8 marks)**

(a) Discuss the use of hand embroidery for cushion covers.

**3**

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

(b) Explain what has influenced the historical design developments in a focus area you have studied. Support your answer with relevant examples.

**5**

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

Do NOT write in this area.

**Question 13 – Properties and Performance of Textiles (8 marks)**

- (a) For a collar on a plain weave school shirt, a woven interfacing or a non-woven web interfacing can be used. 4

Explain an advantage and a disadvantage for each of these interfacing fabrics for this use.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

- (b) Explain factors which contribute to the end-use performance of the following two cleaning cloths. 4

- Cleaning cloth A – cotton fibre
- Cleaning cloth B – nylon microfibre

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

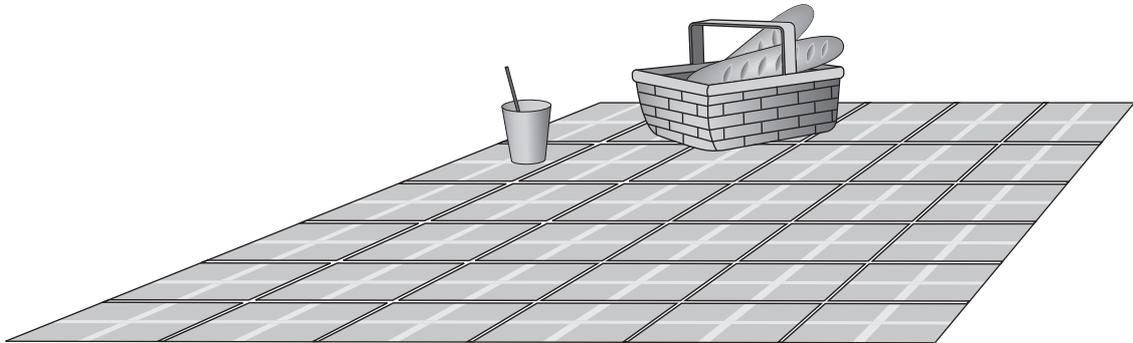
.....





**Question 15 – Properties and Performance of Textiles (8 marks)**

Justify a suitable fibre, fabric structure and fabric finish combination that would meet the functional requirements of a picnic rug. In your answer, refer to the properties of the fibre, fabric structure and fabric finish.



<i>Fibre</i>	<i>Fabric structure</i>	<i>Fabric finish</i>

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

Do NOT write in this area.

**Question 15 continues on page 13**

Question 15 (continued)

Area with horizontal dotted lines for writing.

Do NOT write in this area.

End of paper

BLANK PAGE

Do NOT write in this area.

Do NOT write in this area.

BLANK PAGE

BLANK PAGE

Do NOT write in this area.