

Please write clearly in block capitals.	
Centre number	Candidate number
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Forename(s)	
Candidate signature	

# GCSE DESIGN AND TECHNOLOGY: TEXTILES TECHNOLOGY

Unit 1 Written Paper

Tuesday 24 May 2016

Morning

Time allowed: 2 hours

### **Materials**

For this paper you must have:

- a black pen
- a pencil
- a ruler
- an eraser
- a pencil sharpener
- coloured pencils.

# Instructions

- Use black ink or black ball-point pen. Use pencil and coloured pencils only for drawing.
- Answer all questions.
- Fill in the boxes at the top of this page.
- 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 120.
- Section A relates to the context referred to in the Preliminary Material that was previously issued.
- You are reminded of the need for good English and clear presentation in your answers. Quality of Written Communication will be assessed in Question 3(a).







### Section A

Answer **all** questions in the spaces provided.

Question 1 is about design ideas for a textile product and sustainability.

You should spend about 35 minutes on this question.

# **Design Brief**

You are going to design a textile product inspired by the theme of marine life.

Here is a mood board based on the theme of marine life.



1 (a	a) Give <b>two</b> wa	ys that mood boards	s can inspire de	sign ideas.
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		[2 marks]
1	 	
2		



1 (b)	Sketch <b>two</b> different initial design ideas for a textile product.	
	Do not use colour.	
	The textile product must:	
	<ul> <li>be based on the theme of marine life</li> <li>include a range of fabrics and components.</li> </ul>	
	There are 6 marks for <b>each</b> design idea. Marks will be given for:	
	creativity and originality of idea based on the theme	[2 marks]
	use of a range of fabrics and components	[2 marks]
	quality of notes and sketches.	[2 marks]
		[2 marks]
	Use a pencil to sketch and label two different design ideas based on the des	sign brief.
Design Id	dea A	



Design I	dea B
1 (c)	Tick the box to show the idea you have chosen to develop.  Design Idea A  Design Idea B  Give one way of developing your textile product so that it promotes conservation of marine life.  An example is given below:  Include sustainable fabrics and components in your design.  [1 mark]



**1 (d)** Use sketches, labelling and notes to present a final design in colour for your textile product.

Include components inspired by the theme and sustainable fabrics in your design.

Use this page and the next page to show your textile product in a presentation drawing.

Marks will be given for:

creativity and quality of design including decorative techniques

[5 marks]

• use of a range of fabrics including sustainable fabrics

[4 marks]

• use of components inspired by the theme

[3 marks]

• effective use of colour

[3 marks]

• presentation of the final idea including different views of textile product.

[2 marks]



Tu	ırn over ▶
Question 1 continues on the next page	



1 (e)	Your textile product will be on sale in marine life centres nationwide.  Explain how you can change your design so that it is more suitable for batch production.		
	production.	[3 marks]	





### Section B

Answer all questions in the spaces provided.

Question 2 is about product design and testing.

You should spend about 15 minutes on this question.

**2** Look at the tents in the photographs below.

Tent A



Tent B



**2 (a) (i)** The tents are designed for two different types of people. Give the target market and intended use for each tent.

[4 marks]

Target market and intended use for Tent A
Target market and intended use for Tent B



2 (a) (ii)	Fill in the table below to show three comparisons between the design of Tent A and th
	design of Tent B. One example has been completed for you.

[3 marks]

Tent A	Tent B
Ground sheet incorporated	No ground sheet/tent bottom

2 (b)	Tents A and B use different fabrics and finishes.	Name a different suitable fabric and	
	finish for Tent A and Tent B.		

[4 marks]

Tent A		
Fabric	 	 
Finish		
Tent B		
Fabric		
Finish		



2 (c)	List four components included in a tent.	[4 marks]
	Component 1	
	Component 2	
	Component 3	
	Component 4	
2 (d)	Give <b>two</b> ways to test a tent.  1st Test	[2 marks]
	2nd Test	

Turn over for the next question

Question	3 is about fabric colouring, decoration and product maintenance.
You should	spend about 20 minutes on this question.
3	Look at the plain dress in the drawing below.
3 (a)	Describe some dyeing, printing and surface decorative techniques that could be used to add colour and texture to different parts of the dress. Include some suitable fabrics and decorative components.
	You will be assessed on Quality of Written Communication (QWC) in this question.  [8 marks]



<b>3 (b)</b> Cire	rcle the correct symbol shown below for the decorative dress care label	
	95	[1 mark]
3 (c)	Explain why the symbol you have circled shows the most suitable wa for the dress.	sh care instruction
		[2 marks]



3 (d)	Use notes and diagrams to explain <b>one</b> dyeing, printing or surface decotechnique.	rative
	Marks will be awarded as follows:	
	name of the technique	[d manula]
	equipment needed	[1 mark]
	step-by-step instructions	[1 mark]
	quality of notes and sketches.	[2 marks]
Name o	f technique	

Question 4 is about product design and safety.

You should spend about 20 minutes on this question.

4 Look at the outdoor work trousers in the drawing below.



**4 (a)** The trouser fabric fibre content is 96% nylon and 4% elastane. List **three** advantages of this fibre content.

[3 marks]

Advantage 1_	
Advantage 2_	
Advantage 3_	

Question 4 continues on the next page



4 (b) (i)	The trousers are made from woven fabric.
	Tick the box to show the method of woven fabric construction.
	[1 mark]
4 (b) (ii)	What is the name of this weave?  [1 mark]
4 (b) (iii)	Give <b>two</b> reasons why this is a suitable method of fabric construction for outdoor work trousers.
	[2 marks] Reason 1
	Reason 2
4 (c)	Explain how the style of the trousers could be improved to make them more suitable for outdoor work.  [4 marks]



The trouser fabric is brown and made from nylon and elastane.
Name or describe <b>two</b> different fabrics that could be used to make the trousers safer for working outdoors.
Explain how each fabric makes the trousers safer.  [4 marks]
Fabric 1
Reason for safety
Fabric 2
Reason for safety
Discuss how electronic devices in the trousers would improve the wearer's safety or comfort.  [4 marks]
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Question 5 is about product design and manufacture.

You should spend about 20 minutes on this question.

**5** Look at the drawstring bag in the drawing below.



**5 (a)** The simple drawstring bag sells well in many supermarkets throughout the year.

Circle the correct method of large volume production.

[1 mark]

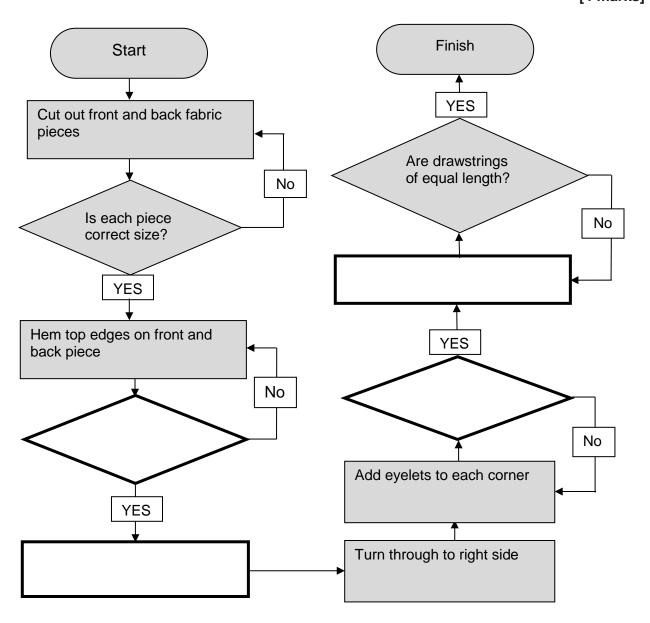
Batch Mass One-off

**5 (b) (i)** The flow chart below shows how to make a simple drawstring bag.

Complete the flow chart to show the stages of production and the quality control checks.

Some boxes have been filled in.

[4 marks]



Question 5 continues on the next page



5 (b	) (ii)	Give three reasons why product manu-		B marks]
		Reason 1		
		Reason 2		
5 (c)	) (i)	A school needs a stronger drawstring bag must also show the school logo.	bag with a place to keep a swim pass dry	. The
			meet this school's requirements and stat ost. One example has been done for you [6	
	Des	sign modification	Reason for increase in production cos	st
		stitching around sides and bottom of to reinforce seams.	Extra stitching takes longer and uses more thread.	
5 (c) (ii) Circle the correct method of production for the school's stronger drawstring bag.  [1 mark]				
		Batch Mass	one-off	



5 (d) (i)	Explain how Computer Aided Design (CAD) can reduce costs.	[3 marks]
5 (d) (ii)		
5 (d) (ii)	Explain how Computer Aided Manufacture (CAM) can reduce costs.	[3 marks]
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Turn over for the next question



Question 6 is about social, moral and environmental issues.

You should spend about 10 minutes on this question.

6 Look at the football clothing in the photograph below.



[3

Football shirts sometimes display logos advertising alcohol or online betting brands.



6 (a)

(b)	Football fans often support their clubs by wearing the latest football shirts. Some football shirts are made in the Far East and cost £90.	
	Discuss why this may be a moral and social issue.	[4 mark
(c)	Some football shirts are made from 96% recycled polyester and 4% organic Explain why this fibre content is sustainable.	
		[4 mark

**END OF QUESTIONS** 

# There are no questions printed on this page

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