Candidate Name	Centre Number	Candidate Number	

WELSH JOINT EDUCATION COMMITTEE

General Certificate of Secondary Education



CYD-BWYLLGOR ADDYSG CYMRU

Tystysgrif Gyffredinol Addysg Uwchradd

274/01

GCSE DESIGN AND TECHNOLOGY

SHORT COURSE

FOCUS AREA: TEXTILES TECHNOLOGY

(Foundation Tier - Grades G to C)

P.M. TUESDAY, 5 June 2007

(1 Hour)

	Leave Blank
Question 1	
Question 2	
Question 3	
Question 4	
TOTAL MARK	

ADDITIONAL MATERIALS

In addition to this examination paper you will need coloured pencils.

INSTRUCTIONS TO CANDIDATES

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer **all** questions.

Write your answers in the spaces provided in this booklet. Where the space is not sufficient for your answer, continue the answer at the back of the book, taking care to number the continuation correctly.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets at the end of each question or part-question.

No certificate will be awarded to a candidate detected in any unfair practice during the examination.

Answer all questions in the spaces provided.

1. (a) A designer needs to carry out research before designing a new toy for a three-year-old child.







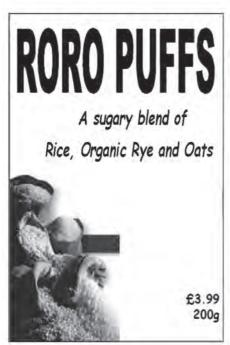
Draw a line to match the **research activity** with the **information found**. *One has been done for you*.

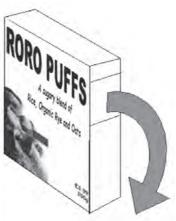
 $3 \times [1]$

Research Activity	Information found
Look at tables of children's sizes	What children can do
Read a book on child development	Size of children's hands
Look at a materials properties website	Find the most popular colour
Talk to a three-year-old child	Safety of materials

(b)	Give three safety concerns that a parent may have when buying a toy.	$3 \times [2]$
	Concern 1:	
	Concern 2:	
	Concern 3:	
	Concern 5.	

2. Sales of the breakfast cereal shown below are falling.





Ingredie Rice, rye	nts: e, oats, honey	, sugar, salt.	
	Guideline daily amount	Each serving with milk	guideline daily amount
Calories	2000kcal	170kcal	8%
Sugar	90g	27.8g	30%
Salt	6g	0.8g	14%
Saturate fat	d 20g	2.4g	12%
Fat	70g	4.0g	6%

(a)	Study the pictures shown and give two reasons why you think sales of this cereal has fallen. $2 \times [2]$	
	Reason 1:	
	Reason 2:	

(274-01) **Turn over.**

(b) The pictures below show three kettles.

	10	R	
Kettle	A	В	С
Cost	£4.99	£19.99	£37.99
Materials	White Plastic	Stainless Steel	Colour Changing Plastic
Where made	China	Europe	UK
Water capacity	1.5 Litres	1 Litre	2.3 Litres

State which kettle holds the most water.	[1
State which kettle you think is the easiest to use and give to choice.	wo reasons for you $2 \times [$
Kettle is easiest to use.	
Reason 1:	
Reason 2:	
Even though it is expensive, some people would decide to buy reason for this.	
State the price of kettle A.	[1
Give two reasons why kettle A can be sold at this price.	2×[2
Reason 1:	
Reason 2:	

	Test the finished product.
	Decide on final sizes.
	Try out different materials and finishes.
	Think about possible ways to join parts together.
	Draw initial ideas for the product.
	(II)
(c)	For a product of your choice, describe two benefits of using CAM (computer air manufacturing) to make the product.
(c)	For a product of your choice, describe two benefits of using CAM (computer aid
(c)	For a product of your choice, describe two benefits of using CAM (computer air manufacturing) to make the product. 3 × Product:

(274-01) **Turn over.**

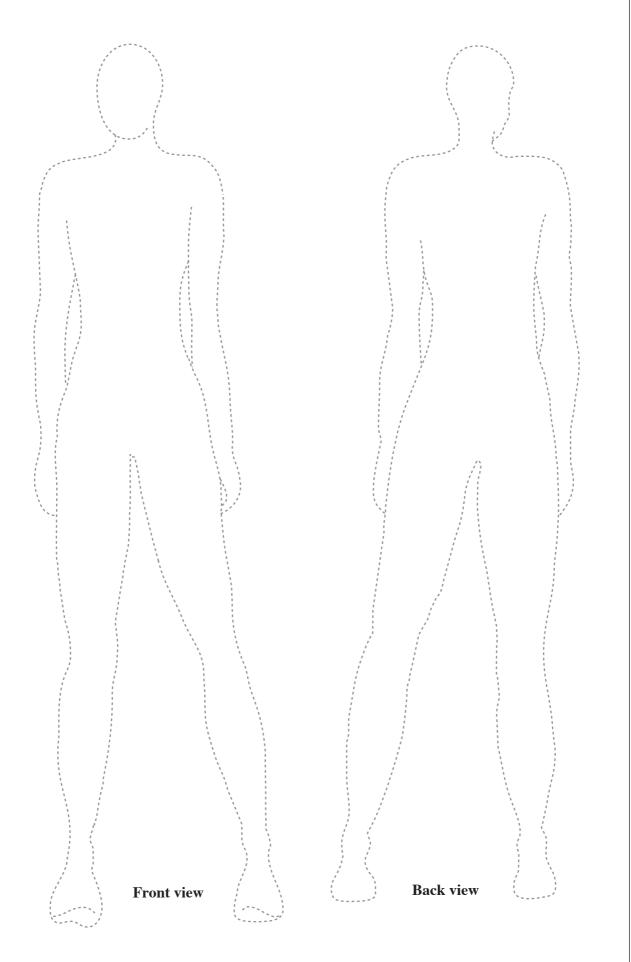
- **4.** Skate boarding is a popular activity. **Design** a two-piece co-ordinated outfit that reflects a skate boarding theme.
 - (a) **Sketch** your designs for a two-piece co-ordinated outfit using the silhouettes provided on the opposite page.

Your design must:

- be suitable for both males and females;
- reflect the skate boarding theme;
- show labelling of **four** accurate style details;
- have a co-ordinated colour scheme;
- be made of suitable comfortable and durable materials.

Marks	will	be	awar	ded	for:
-------	------	----	------	-----	------

	(i)	good graphical communication of the front and back views;	[6]
	(ii)	clear labelling to show:	
		• the names of two specific suitable materials;	[2]
		• four specific style details;	[4]
	(iii)	a creative interpretation of the skate boarding theme;	[5]
	(iv)	a co-ordinated colour scheme.	[4]
(b)	Expl	ain why your design is suitable for both male and female skate boarders.	[2]
(c)	Expl	ain how your design is influenced by the skate boarding theme.	[2]



	 	•••••	•••••	•••••	•••••	
•••••	 					
•••••	 	•••••		•••••	•••••	