

Mark scheme June 2003

GCSE

Design and Technology Graphic Products

3553 (Short Course)
Higher

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Design and Technology Graphic Products

Short Course Higher Tier

Question 1 Data Representation

(i) Correct number of vertical axis 4 x 1 marks (4 marks)
(ii) Matching key to bars (1 mark)
(iii) Quality of colour (1 mark)

Total 6 marks



Question 2 Designing

(i)	Letter style (font) – not single line letters Two or more discrete ideas Evidence of some development of ideas		1 mark 1 mark	(2 marks)
	Evaluation:	Critical, relevant Superficial, self congratulatory, label, descriptive	2 marks 1 mark	(2 marks)
				,
(ii)	Eviden	r more discrete ideas ace of some development of idea I theme	1 mark 1 mark 1 mark	(3 marks)
	Evaluation:	Critical, relevant Superficial, self congratulatory, descriptive,	2 marks	
		label	1 mark	(2 marks)
(iii)		r more discrete ideas ace of some development of idea	1 mark 1 mark	(2 marks)
	Evaluation:	Critical, relevant Superficial, self congratulatory, label descriptive	2 marks 1 mark	(2 marks)
(iv)	Sketching (Best Very effective: Satisfactory: Adequate: Poor:	st Evidence) consistent e.g. sharp and faint, straight some differences in line, communicates idea poor pencil/line work – blunt, lacks quality an attempt, little evidence, scribble	5-4 marks 3 marks 2 marks 1 mark	(5 marks)
(v)	Colour: (Acception Correct number	pt pencil, notes, swatches etc) r Black, one colour (+ white) in combination Consistently applied in all sections	1 mark 1 mark	(2 marks)



Question 3 Presentation

(a) (i) Use of spec: pro rata, one mark per criteria

Name

Letter style (font) Not single line

Logo – animal theme

Colour (max 3) not include black 4 x 1 marks (4 marks)

(ii)Quality of drawing:

5 - 4 marks Very good line quality, clear, neat etc Satisfactory, some sharp, neat etc 3 marks Adequately drawn, some reasonable lines 2-1 marks (5 marks)

(iii) Layout: Very effective, consistently good

e.g. spacing, proportion, line, good use of space 4-3 marks

Satisfactory, sense of composition

Adequate spacing, some imperfections 2 marks

An attempt but lacks clarity and/or poorly

spaced, crowded 1 mark

unrecognisable 0 marks (4 marks)

(iv) Colouring: Good quality, enhanced drawing the achieves 3 marks

visual impact e.g. good block colouring

satisfactory, controlled use of media 2 marks an attempt at colouring, untidy 1 mark

line drawings only 0 marks (3 marks)

(b) Both Correct features (ht, length) identified 1 mark

Leaders gap, correct arrowheads 1 mark

Dimension lines solid, parallel, touch leaders 1 mark

Size correct, above line, centre position 1 mark (4 marks)

Total 20 marks

Question 4 Evaluation and modifications

(a) Sketches: Clear, neat communicates ideas well

> (2 or more ideas) 1 mark

Outline 1 mark (2 marks)

1 mark (1 mark) Labels (comfort, strength) etc

1 mark

(b) Design related to sketch Position of handle at least one square from the top and

six square lengths (well drawn) 2 marks (2 marks)

Some imperfections 1 mark

Total 6 marks

(1 mark)



Total 10 marks

Question 5 3rd Angle Orthographic drawing

All lines to be in correct position and the correct length

Plan	Flap	Inclined lines Two vertical lines	2 x 1 marks 1 mark	(3 marks)
	Centre	3 x Horizontal lines	3 x 1 marks	(3 marks)
	Lock flap	3 x Horizontal lines Three short vertical lines	3 x 1 marks 1 mark	(4 marks)

Question 6 Materials

Sketch: correct structure e.g. 3D, in proportion, all layers In contact with facings An understanding of material structure e.g. 2D Some inaccuracies Confused, incomprehensible Notes labels, and/or correct description Incorrect		2 marks 1 mark	
		0 marks	(2 marks)
		1 mark 0 marks	(1 mark)
Advantages	reasoned statement relating product to; Weight, cost, availability, safety, ease of processing, bio-degradable etc some understanding but confused, one word	2 marks 1 mark	(2 marks)
Disadvantage	reasoned statement relating product to wet strength, damages easily, 'edible' etc some understanding but confused, one word	2 marks 1 mark	(2 marks)
Corner join Sk	etch showing staples, stitching, locking tabs etc Good, informative e.g. showing overlap, Thickness, good line, exploded, aligned etc Adequate, some minor inaccuracies, untidy An attempt, recognisable Confused, scribble (tape or adhesive)	5-4 marks 3 marks 2-1 marks 0 marks	(5 marks)
Annotation	Reasoned notes Labels	2 marks 1 mark	(2 marks)
Smart Materials (e.g. that which reacts in predictable way given external			
(i)	full, clear understanding some understanding an attempt confused, wrong,	3 marks 2 marks 1 mark 0 marks	(3 marks)
(iii) (e.g. co	olour change due to temperature change) full, clear understanding some understanding confused, wrong	2 marks 1 mark 0 marks	(2 marks)
	In contact with An understand Some inaccura Confused, income Inco	In contact with facings An understanding of material structure e.g. 2D Some inaccuracies Confused, incomprehensible Notes labels, and/or correct description Incorrect Advantages reasoned statement relating product to; Weight, cost, availability, safety, ease of processing, bio-degradable etc some understanding but confused, one word Disadvantage reasoned statement relating product to wet strength, damages easily, 'edible' etc some understanding but confused, one word Corner join Sketch showing staples, stitching, locking tabs etc Good, informative e.g. showing overlap, Thickness, good line, exploded, aligned etc Adequate, some minor inaccuracies, untidy An attempt, recognisable Confused, scribble (tape or adhesive) Annotation Reasoned notes Labels Smart Materials (e.g. that which reacts in predictable way gives stimulus) (i) full, clear understanding some understanding an attempt confused, wrong, (iii) (e.g. colour change due to temperature change) full, clear understanding some understanding some understanding	In contact with facings An understanding of material structure e.g. 2D Some inaccuracies Confused, incomprehensible O marks Notes labels, and/or correct description land lincorrect Incorrect O marks Advantages reasoned statement relating product to; Weight, cost, availability, safety, ease of processing, bio-degradable etc 2 marks some understanding but confused, one word 1 mark Disadvantage reasoned statement relating product to wet strength, damages easily, 'edible' etc 2 marks some understanding but confused, one word 1 mark Corner join Sketch showing staples, stitching, locking tabs etc Good, informative e.g. showing overlap, Thickness, good line, exploded, aligned etc Adequate, some minor inaccuracies, untidy 3 marks An attempt, recognisable 2-1 marks Confused, scribble (tape or adhesive) Annotation Reasoned notes 2 marks Labels 1 mark Smart Materials (e.g. that which reacts in predictable way given external stimulus) (i) full, clear understanding 3 marks some understanding 2 marks an attempt 1 mark confused, wrong, 0 marks (iii) (e.g. colour change due to temperature change) full, clear understanding 2 marks some understanding 2 marks an attempt 1 mark confused, wrong, 0 marks

Total 19 marks



Question 7 Environmental, Cultural, Social Issues

(a)	e.g. some have moral or religious significance, offensive etc					
		reasoned response, clear concise	2 marks			
		partial response, confused	1 mark			
		incorrect	0 marks	(2 marks)		
(b)	(i)	e.g. products are seen, room for graphics, hanging slot, product tamper proof etc				
		reasoned response, clear concise	2 marks			
		partial response, confused	1 mark			
		incorrect	0 marks	(2 marks)		
	(ii)	e.g. products are seen, buy as seen, compares to	consumers wants etc			
		reasoned response, clear concise	2 marks			
		partial response, confused	1 mark			
		incorrect	0 marks	(2 marks)		
	(iii)	(iii) e.g. excessive packaging, use of non-renewable materials, bulky for transport etc				
		reasoned response, clear concise	2 marks			
		partial response, confused	1 mark			
		incorrect	0 marks	(2 marks)		
	(iv)	Oil	1 mark	(1 mark)		
(c)	(i)	i) e.g. large hole in ground for domestic/industrial waste, bury and forget, disused quarries, sand pits etc				
		clear concise correct response	2 marks			
		partial response, confused	1 mark			
		incorrect	0 marks	(2 marks)		
		medirect	O marks	(2 marks)		
	(ii)					
		clear concise correct response	2 marks			
		partial response, confused	1 mark			
		incorrect	0 marks	(2 marks)		
(d)		e.g. use less materials – smaller, thinner, biodegr recycled materials, refillable containers, used co				

Total 19 marks

(3 x 2 marks)

3 x 2 marks

1 mark

0 marks

Total Paper 100 Marks

pro rata

packaging, avoid hazardous materials etc

some understanding

confused, incorrect

clear concise correct response

