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## UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

GCE Advanced Subsidiary Level and GCE Advanced Level

## MARK SCHEME for the October/November 2010 question paper for the guidance of teachers

## 9705 DESIGN AND TECHNOLOGY

9705/13

Paper 1, maximum raw mark 120

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

• CIE will not enter into discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the October/November 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

		Man.
Page 2	Mark Scheme: Teachers' version	Syllabus
	GCE A/AS LEVEL – October/November 2010	9705
(a) Suitable	sheet material named	Car

bridge com
[6]
[6]
[6]
20]
[2]
[6]
[6]
[6]
20]

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	Pa	ge 3	Mark Scheme: Teachers' version Syllabus	S. Jei	•
			GCE A/AS LEVEL – October/November 2010 9705	Dan	
3	(a)	Bas Fro Sid Top	propriate scale used se, back and two sides ont de flaps p and fold over flap ur correct glue tabs	(1) (1) (1) (1) (1)	bridge [6]
	(b)	) Suitable material named		(1)	
		Sui e.g	i. polystyrene itable reason for choice given i. can be vacuum formed (thermoplastic). indy coloured	(1)	[2]
	(c)	(i)	Process of making former described Details of tools, equipment and safety precautions (if necessary)	(0-3) (0-3)	[6]
		(ii)	Process of vacuum forming described Details of tools, equipment and safety precautions (if necessary)	(0-3) (0-3)	[6]
				[Total:	: 20]
4	(a)	e. q thro Ter	ference explained g. Stencil is a sheet of thin material with hole/s cut in it. paint/ink is applie ough hole to create design (1 mark) mplate is a shape cut out of thin sheet material which can be drawn round mark)		[2]
	(b)	Pro e.g.	oblem 1 described oblem 2 described i. Problems related to centres of letters O and R falling out, paper not being table material, letters being very close to edge of stencil.	(0–2) (0–2) a	[4]
	(c)	Exp e.g	planation of how problem 1 could be overcome planation of how problem 2 could be overcome g. joining centre of letters to outer parts, alternative material used, increasing a around letters.	(0-3) (0-3) g	[6]
	(d)	Exp	uation has been analysed and relevant issues/points identified planation of why issues/points are considered relevant ecific examples/evidence used to support conclusions	(0-3) (0-3) (0-2)	[8]
				[Total:	: 20]

Page 4	Mark Scheme: Teachers' version	Syllabus	er	
_	GCE A/AS LEVEL – October/November 2010	9705	20	

(a) Appropriate explanation related to quality and safety standards

(c) Explanation of how problem 1 could be overcome

Explanation of how problem 2 could be overcome

e.g. Splaying legs, strengthening seat fixing where it joins legs.

(d) Situation has been analysed and relevant issues/points identified

Explanation of why issues/points are considered relevant

Specific examples/evidence used to support conclusions

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A Lion Mark, B 'Declaration of Conformity' meets European Community Standards, **C** British Standards Kite Mark, **D** Not suitable for very young children. (b) Problem 1 described (0-2)(0-2)Problem 2 described [4] e.g. Problems related to nothing for child to hold on to (no handles) child could easily slide/fall off back of seat. (c) Explanation of how problem 1 could be overcome (0-3)Explanation of how problem 2 could be overcome (0-3)[6] e. g. suitable handle/s added, back rest added. (0-3)(d) Situation has been analysed and relevant issues/points identified Explanation of why issues/points are considered relevant (0-3)Specific examples/evidence used to support conclusions (0-3)[8] [Total: 20] 6 (a) Appropriate explanation (0-2)[2] e.g. water runs off more quickly, uses less material, not as heavy, more stable than solid timber (b) Problem 1 described (0-2)Problem 2 described (0-2)[4] e.g. Related to strength and stability of structure

[Total: 20]

(0-3)

(0-3)

(0-3)

(0-3)

(0-2)

[6]

[8]

Page 5 Mark Scheme: Teachers' version Syllabus er  GCE A/AS LEVEL – October/November 2010 9705  (a) One pre-conceived idea presented OR The development and selection of a range of ideas into a single design proposal which would appear to work but lacks some technical detail (4–7)					r
ı a	ge o	GCE A/AS LEVEL – October/November 2010	9705	80	
		COL PARO EL VEL COMODOMINO COMBOL EUTO	0700	S.C.	1
(a)	One pre- OR	-conceived idea presented		di	non:
	which wo	elopment and selection of a range of ideas into a sing ould appear to work but lacks some technical detail	le design proposa	al (4–7)	S.
	OR .			- 1	
		elopment and selection of a range of ideas into a sing udes sufficient technical detail to show that the propo ork			
	Clarity	and available of alcatabinar and available are not a		(0.2)	
	•	nd quality of sketching and explanatory notes on (reasons for selection)		(0–3) (0–3)	[16]
(b)	As for pa	art (a)			[16]
(c)	As for pa	art (a)			[16]
(d)	As for pa	art (a)			[16]
(e)	required	ving will exhibit a reasonable standard of outcome and design features	show some of the	e (0–3)	
	OR	vine will exhibit a good standard of systems and show	most of the design	_	
		ving will exhibit a good standard of outcome and show required to make the product function as intended	most of the desig	(4–7)	
		wing will be completed to a high standard of outcome	and fully show the	е	
	design fe	eatures required to make the product function as intend	led	(8–10)	
	Some us	se made of colour and tone to enhance the visual impa	ct of the drawing	(0–2)	
	Good us drawing	e has been made of colour and tone to enhance the v	risual impact of the	e (3–4)	
	OR Vory go	nd use has been made of colour tone and materia	l representation t	0	
		od use has been made of colour, tone and material the visual impact of the drawing	representation t	(5–6)	[16]

Questions 8 and 9 as for Question 7

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