UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS GCE Advanced Subsidiary Level and GCE Advanced Level

WANN, PapaCambridge.com MARK SCHEME for the October/November 2011 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.

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

Cambridge is publishing the mark schemes for the October/November 2011 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

	NEW V	w xtrapa	pers
Page 2	Mark Scheme: Teachers' version Syllabus	A er	
	GCE AS/A LEVEL – October/November 2011 9705	They want	
e.g. F Suita	ble finish named Paint, varnish ble reason for choice given o enhance appearance, to protect surface	Papacanne (1)	,id90
S	Cutting out of material described Smoothing edges of material described Details of tools, equipment and safety precautions (if necessary)	(0–2) (0–2) (0–2)	[6]
	Nethod of joining described Details of tools, equipment and safety precautions (if necessary)	(0–3) (0–3)	[6]
• •	Nethod of joining described Details of tools, equipment and safety precautions (if necessary)	(0–3) (0–3)	[6]
		[Total:	20]
· · ·	ble thickness of card stated –2mm, 1000–2000 microns	(1)	
Suita e.g. r	ble reason for choice given elated to strength/stability of material and its ability to support weight of	(1)	[0]
leafle	IS		[2]
Front	ect assembly shown as pictorial view and back	(1) (0–2)	
Struts 'Lock	s ing' pieces	(0–2) (1)	[6]
• •	ng out and folding process described Is of tools, equipment and safety precautions (if necessary)	(0–3) (0–3)	[6]
• •	utting process described Is of tools, equipment and safety precautions (if necessary)	(0–3) (0–3)	
		[Total:	20]

		www.xtrapaper	
Pag	je 3	Mark Scheme: Teachers' version Syllab	us A er
		GCE AS/A LEVEL – October/November 2011 9705	120
(e.g. ac Suitab	ble material named crylic, polystyrene, aluminium, stainless steel ble reason for choice given urface finish is not required	(0.2)
(b)	• •	rocess of bending described etails of tools, equipment and safety precautions (if necessary)	(0–3) (0–3) [6]
(S	utting out material described moothing edges of material described etails of tools, equipment and safety precautions (if necessary)	(0–2) (0–2) (0–2) [6]
(i	D	larking out of holes described rilling holes described etails of tools, equipment and safety precautions (if necessary)	(0–2) (0–2) (0–2) [6]
			[Total: 20]
		ence to recycling from 40% recycled material	(1) (1) [2]
) (Proble e.g. Pi	em 1 described em 2 described roblems related to egg moving about. no side fold over flaps, 'win	
		r tuck in flap too big, poor security nation of how problem 1 could be overcome	[4] (0–3)
e	e.g. Ir	nation of how problem 2 could be overcome nner packaging added to prevent egg moving, additional flaps a of 'windows' and tuck in flap changed, security sticker added	(0–3) idded, [6]
	Explar	ion has been analysed and relevant issues/points identified. nation of why issues/points are considered relevant fic examples/evidence used to support conclusions	(0–3) (0–3) (0–2) [8]
			[Total: 20]

Page 4	Mark Scheme: Teachers' version	Syllabus	er er	
	GCE AS/A LEVEL – October/November 2011	9705	Da	
e.g. Ac	riate explanation ets as handle to pull out drawer, provides space for sl es contents of drawer	ot in label which	(0-2)	brid
Probler	n 1 described n 2 described oblems related to poor stability and CDs falling out of sl		(0–2) (0–2) 4	
Explana e.g. Inc	ation of how problem 1 could be overcome ation of how problem 2 could be overcome creasing size of base, adding weight to base, makin I slots at an angle	ng slots deeper,	(0–3) (0–3)	[6]
Explana	on has been analysed and relevant issues/points identif ation of why issues/points are considered relevant c examples/evidence used to support conclusions	ied.	(0-3) (0-3) (0-2)	[8
			[Total:	20
· · · · ·	riate explanation ring, allows board to bend in wind, makes it harder to kr	nock board over	(0–2)	[4]
Probler e.g. No	m 1 described m 2 described othing to hold two frames together, poor stability, two board can easily collapse	frames can slide	(0–2) (0–2)	[4
(c) Explan Explan e.g. joir	ation of how problem 1 could be overcome ation of how problem 2 could be overcome n two frames together with hinges or something similar	, connect bottom	(0–3) (0–3)	
(d) Situatic Explan	es together chain or something similar on has been analysed and relevant issues/points identif ation of why issues/points are considered relevant	ied.	(0-3) (0-3)	[6]
Specili	c examples/evidence used to support conclusions		(0–2) [Total:	8]

Page 5	Mark Scheme: Teachers' version	Syllabus	8. P	
	GCE AS/A LEVEL – October/November 2011	9705	Dan	
OR	-conceived idea presented		an	bric
proposa OR	velopment and selection of a range of ideas into a line would appear to work but lacks some technical	a single design detail	Papa Cann (4–7)	
proposa solution	velopment and selection of a range of ideas into a I that includes sufficient technical detail to show that would clearly work	a single design at the proposed	(8–10)	
•	nd quality of sketching and explanatory notes on (reasons for selection)		(0–3) (0–3)	[16]
b) As for p	art (a)			[16]
c) As for p	art (a)			[16]
d) As for p	art (a)			[16]
	wing will exhibit a reasonable standard of outcome and ired design features	d show some of	(0–3)	
The dra	wing will exhibit a good standard of outcome and sh eatures required to make the product function as intend		(4–7)	
The dra	wing will be completed to a high standard of outcome gn features required to make the product function as in		(8–10)	
Some ι drawing OR	se made of colour and tone to enhance the visua	I impact of the	(0–2)	
	e has been made of colour and tone to enhance the ving	visual impact of	(3–4)	
Very go	od use has been made of colour, tone and material re the visual impact of the drawing	epresentation to	(5–6)	[16]
			[Total	: 80

Questions 8 and 9 as for Question 7