MARK SCHEME for the October/November 2009 question paper

for the guidance of teachers

9705 DESIGN AND TECHNOLOGY

9705/11

Paper 11 (Written 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.

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	Page 2		Mark Scheme: Teachers' version	Syllabus	Paper
			GCE A/AS LEVEL – October/November 2009 9705		11
1	(a)	 a) (i) Suitable sheet material named e.g. stainless steel, aluminium, mild steel Suitable reason for choice given e.g easy to clean, can withstand heat 			(1) (1) [2]
	(b)	(i)	Cutting and finishing described Details of tools, equipment and safety precautions (if a	ppropriate)	(0–3) (0–3) [6]
		(ii)	use of template and drilling process described Details of tools, equipment and safety precautions (if a	ppropriate)	(0–3) (0–3) [6]
		(iii)	Joining of method described Details of tools, equipment and safety precautions (if a	ppropriate)	(0–3) (0–3) [6]
					[Total: 20]
2	(a)	e.g. Sui	able material named plywood, MDF able reason for choice given easily shaped, low cost, good surface for painting		(1) (1) [2]
		e.g.			(•) [
	(b)	(i)	Cutting and finishing described Details of tools, equipment and safety precautions (if a	ppropriate)	(0–3) (0–3) [6]
		(ii)	Joining of method described Details of tools, equipment and safety precautions (if a	ppropriate)	(0–3) (0–3) [6]
		(iii)	Applying painted finish described Details of tools, equipment and safety precautions (if a	ppropriate)	(0–3) (0–3) [6]
					[Total: 20]
3	(a)	 (a) Suitable thickness stated e.g. 1 – 2 mm, 1000 – 2000 microns Suitable reason for choice given e.g. related to strength /stability of material and its ability to support weig 		support weight of le	(1) eaflets (1) [2]
	(b)	(i)	Appropriate slots shown in part B Method shows how given slots in part A slot into part B Slot and tab to fix base in place Clear description of method		(0-2) (1) (1) (0-2) [6]
		(ii)	Making and using stencil described Details of tools, equipment and safety precautions		(0–3) (0–3) [6]
	(c)		Appropriate scale used Front Sides Base Slots and tab		(1) (1) (0–2) (1) (1) [6] [Total: 20]

	Page 3		Mark Scheme: Teachers' version	Syllabus	Paper				
			GCE A/AS LEVEL – October/November 2009	9705	11				
	Section B								
4	(a)		ate explanation ed to improved stability and providing support for top f	rame	(0–2)	[2]			
	(b)	Problem	1 described 2 described lems related to poor stability and weak support for top		(0–2) (0–2)	[4]			
	(c)	Explanat	ion of how problem 1 could be overcome ion of how problem 2 could be overcome ing bottom frame larger, adding additional support for t	ор	(0–3) (0–3)	[6]			
	(d)	Explanat	has been analysed and relevant issues / points identifion of why issues / points are considered relevant example or evidence used to support answer	ïed	(0–3) (0–3) (0–2)	[8]			
					[Total:	20]			
5	(a)		ate explanation ed to enabling packaging to hang from a display rack		(0–2)	[2]			
	(b)	Problem	1 described 2 described ed to packaging not hanging straight and poor security	for MP3 player	(0–2) (0–2)	[4]			
	(c)	Explanat e.g. solu	ion of how problem 1 could be overcome ion of how problem 2 could be overcome tions related to moving position of hanging slot so th Packaging is secured by gluing or shrink wrapping.	at packaging will	(0–3) (0–3)	[6]			
	(d)	Explanat	has been analysed and relevant issues / points identif ion of why issues / points are considered relevant example or evidence used to support answer	ied	(0-3) (0-3) (0-2)	[8]			
					[Total:	20]			
6	(a)		ate explanation bles parts to be assembled and disassembled		(0–2)	[2]			
	(b)	Problem	1 described 2 described lems related to small are for attaching top and rail, poo	or stability	(0–2) (0–2)	[4]			

Page 4		Mark Scheme: Teachers' version	Syllabus	Paper			
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(c)	Explanation of how problem 1 could be overcome Explanation of how problem 2 could be overcome e.g. solutions related to adding rails to attach / support top Changing design to give more surface area in contact with the floor and possible						
(d)	Explanat	has been analysed and relevant issues / points identi ion of why issues / points are considered relevant example or evidence used to support answer	fied	(0–3) (0–3) (0–2) [8] [Total: 20]			
	Section C						
7 (a)	One pre- OR	conceived idea presented		(0–3)			
		elopment and selection of a range of ideas into a single which would appear to work but lacks some technical	-	(4–7)			
	proposal solution v Clarity ar	elopment and selection of a range of ideas into a single that includes sufficient technical details to show that the would clearly work ad quality of sketching and explanatory notes on (reasons for selection)	-	(8–10) (0–3) (0–3) [16]			
(b)	As for pa	rt (a)		[16]			
(c)	As for pa	rt (a)		[16]			
(d)	As for pa	rt (a)		[16]			
(e)		ring will exhibit a reasonable standard of outcome an s red design features	show some of	(0–3)			
	The draw features	ring will exhibit a good standard of outcome and show required to make the product function as intended	the design	(4–7)			
		ring will be completed to a high standard of outcome a n features required to make the product function as in	•	(8–10)			
	Some us drawing OR	e made of colour and tone to enhance the visual impa	ct of the	(0–2)			
	Good use	e has been made of the colour and tone to enhance th the drawing	e visual	(3–4)			
	Very goo	d use has been made of colour, tone and material rep the visual impact of the drawing	resentation to	(5–6) [16]			
				[Total: 80]			

Questions 8 and 9 as for Question 7