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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2011 question paper for the guidance of teachers

0445 DESIGN AND TECHNOLOGY

0445/13

Paper 1 (Design), maximum raw mark 50

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.

Page 2		Mark Scheme: Teachers' version Syllabus						
raç	JG 2	IGCSE – October/November 2011	0445	00				
(a)	Accept any four additional suitable points – cutting surface, no damage to furniture, storage for tools and paints, lightweight, comfortable to carry, etc.			divacal (1x4)	Abrida			
(b)	Accept drawings of any two suitable folding/adjusting/dismantling methods – hinging, sliding, slotting together, dowels, screws, KD fittings, etc.				[4]			
(c)	rata if for Common Simple Clear of shading High quand det Suitabi Simplis Rather	unication drawings displaying a low standard or limited range drawings displaying a good standard and a range glocolour/annotation etc. uality drawings using a wide range of techniques wi eail lity tic designs showing outlines only more detail, sensible solutions that could work	of techniques e of techniques – th clear annotation	(0-2) (3-4) (5-6) (0-2) (3-4)	[42]			
(d)	Evaluat	te solutions, good fitness for purpose, detailed const tion of each of the ideas. At least 3 evaluations up to on and justification (1+1)		(5–6) (0–6) (2)	[12] [8]			
(e)	Poor lin Good lin High st detail Dimens Constr A simpl Most co annotat All con	Additional detail dimensions – 2 uction details istic approach showing little or no detail of construct onstructional detail may be obvious from overall v	ion to be used iews or with some	(1) (2–3) (4) (2) (0–2) (3–4) (5–6)	[12]			
(f)		e specific materials stated riate reasons for choice		(2) (2)	[4]			
(g)		e method stated etailed description of: processes tools		(1) (3) (2)	[6]			

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[Total: 50]

Page 3		Mark Scheme: Teachers' version Syllabus					20	ır	
i age o			GCSE – Oc				0445	200	
(a)	Accept any four additional suitable points – lightweight, easy to carry, strong handles, easily assembled, easy to clean, ventilation for pet, etc.				ng (1x4)	Morida			
(b)	Accept any two strengthening methods – corrugation, folding, ridges, additional tape, etc.						[4]		
(c)	rata if for Common Simple Clear of Shading High quand det Suitabi Simplis Rather	ewer unication drawings drawings g/colour/a uality drawitail ility more det	n s displaying displaying annotation e	a low stand a good st tc. a wide rar outlines on	dard or lim andard ar nge of tech ly that could	ited range nd a rang nniques wi work	ximum marks. Proof techniques e of techniques the clear annotation	- (0-2) - (3-4)	[12]
(d)			ch of the ide		st 3 evalua	ations up t	o 2 marks each	(0–6) (2)	[8]
(e)	Poor lin Good lin High st detail Dimens Constr A simpl Most co annotat All con	ne work, tandard to sions ruction do listic appronstruction struction	y, proportions use of color throughout versions 2 or 3 overa Additional cetails roach showing and detail r	ur, proportion with a range all dimension detail dimering little or in may be obtail be clear	ons, some ge of tech ons only – nsions – 2 no detail ovious from	niques the f construct overall v	at show clearly a tion to be used iews or with som ion and additions	(4) (2) (0–2) ne (3–4)	[12]
(f)		Suitable specific materials stated Appropriate reasons for choice		(2) (2)	[4]				
(g)		e method letailed d	l stated escription of	f: processe tools	s			(1) (3) (2)	[6]

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[Total: 50]

Page 4		Mark Scheme: Teachers' version		Syllabus	0	
	-		ber/November 2011	0445	2000	
(a)	damage		uitable points – lightweight, various fruit shapes and	simple to use, no sizes, adjustable,	dayaCaj (1x4)	hbridge
(b)		ny two adjustment s oosen, wing nuts, etc.	ystems – sliding in or on, tu	be in tube, twist to	(2x2)	[4]
(c)	rata if fe Commu Simple Clear d shading High qu and det Suitabi Simplist Rather	ver nication rawings displaying a lawings displaying a colour/annotation etc. ality drawings using a il ty c designs showing outpore detail, sensible s	wide range of techniques wi	of techniques e of techniques – ith clear annotation	(0-2) (3-4) (5-6) (0-2) (3-4) (5-6)	[12]
(d)		on of each of the idea n and justification(1+	s. At least 3 evaluations up t	o 2 marks each	(0–6) (2)	[8]
(e)	Poor lin Good lin High st detail Dimens Constr A simpl Most co annotat All cons	ons 2 or 3 overall Additional det ction details tic approach showing nstructional detail ma	little detail proportions, some detail th a range of techniques the dimensions only – 1 tail dimensions – 2 g little or no detail of construct ay be obvious from overall v be clear with good annotat	tion to be used iews or with some	(1) (2-3) (4) (2) (0-2) (3-4) (5-6)	[12]
(f)		specific materials sta ate reasons for choice			(2) (2)	[4]
(g)		method stated tailed description of: p t	processes tools		(1) (3) (2)	[6]

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[Total: 50]