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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2011 question paper for the guidance of teachers

0445 DESIGN AND TECHNOLOGY

0445/11

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.

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					2	1	
H	Pag	e 2		e: Teachers' version	Syllabus 0445	as I	
			IGCSE -	- May/June 2011	0445	S.C.	
1	(a)			suitable points – easy to cle ght, baby cannot fall off, storaç	ean, stable in use, ge for items, etc.	danaCall (1x4)	hbridge
	(b)	•	drawings of any tw s, hooks, clips, etc.	vo suitable storage systems	- shelves, boxes,	(2x2)	[4]
	(c)	rata if f	ewer.	three different ideas for ma	aximum marks. Pro		
		Clear drawings displaying a good standard and a range of techniques – shading /colour/annotation etc High quality drawings using a wide range of techniques with clear annotation and detail				(0-2)	
						(3-4)	
						(5-6)	
		Suitability Simplistic designs showing outlines only Rather more detail, sensible solutions that could work					
		Accura	e solutions, good fitn	ess for purpose, detailed cons	struction	(5-6)	[12]
	(d)	Evalua	ion of each of the ide	eas. At least 3 evaluations up	to 2 marks each	(0-6)	
		Selection	on and justification.(1+1)		(2)	[8]
	(e)	-	of drawing	. 1941 - 4 - 4 - 11		(4)	
			e quality, proportions ne work. use of colou	s, little detail ir, proportions, some detail		(1) (2-3)	
		High st		vith a range of techniques th	at show clearly all		
		detail Dimen	cione 2 or 3 overal	l dimensions only - 1		(4)	
		Dilliell		etail dimensions - 2		(2)	
			uction details istic approach showir	ng little or no detail of construc	ction to be used	(0-2)	
		Most constructional detail annotation		nay be obvious from overall v	views or with some	(3-4)	
			nstructional detail will be clear with good annotation and addition	tion and additional	(0-4)		
		detail d	rawings as necessary	y		(5-6)	[12]
	(f)	Suitable	e specific materials s	stated.		(2)	
		Approp	riate reasons for choi	ce.		(2)	[4]
		-					
	(a)	Suitable	e method stated.			(1)	
	(g)		etailed description of	: processes		(3)	
				tools.		(2)	[6]

[Total: 50]

	Page	e 3	Ma	lark Scheme: Teachers' version			Syllabus		· 03	
_			IGCSE – May/June 2011			()445	700		
2	(a)	Accept	any four	additional	suitable	points -	– appeal	to pupils	s, compact	Calny

(a)	Accept any four additional suitable points – appeal to pupils, compact, colourful, include NEW TERM, lightweight, items located well, etc.	(1x4)	mbridg
(b)	Accept any two viewing systems – flap, clear sheet 'window', opening, grill, gauze, vacuum 'bubble', etc.	(2x2)	[4]
(c)	Any suitable ideas. At least three different ideas for maximum marks. Pro rata if fewer. Communication Simple drawings displaying a low standard or limited range of techniques Clear drawings displaying a good standard and a range of techniques – shading /colour/annotation etc High quality drawings using a wide range of techniques with clear annotation and detail Suitability Simplistic designs showing outlines only Rather more detail, sensible solutions that could work Accurate solutions, good fitness for purpose, detailed construction	(0-2) (3-4) (5-6) (0-2) (3-4) (5-6)	[12]
(d)	Evaluation of each of the ideas. At least 3 evaluations up to 2 marks each Selection and justification. (1+1)	(0-6) (2)	[8]
(e)	Quality of drawing Poor line quality, proportions, little detail Good line work, use of colour, proportions, some detail High standard throughout with a range of techniques that show clearly all detail Dimensions 2 or 3 overall dimensions only - 1 Additional detail dimensions - 2 Construction details A simplistic approach showing little or no detail of construction to be used Most constructional detail may be obvious from overall views or with some annotation All constructional detail will be clear with good annotation and additional detail drawings as necessary	(1) (2-3) (4) (2) (0-2) (3-4) (5-6)	[12]
(f)	Suitable specific materials stated. Appropriate reasons for choice.	(2) (2)	[4]
(g)	Suitable method stated. Good detailed description of: processes tools.	(1) (3) (2)	[6]

[Total: 50]

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Syllabus

		IGCSE – Ma	ay/June 2011	0445	Do					
3 (a)	hygien	•	able points – will not tip ov to fill, adjustable timing, f		(1x4)	mbric				
(b)		Itage supply/motor, solar	 clockwork, battery power power, etc.(similar batterion) 		(2x2)	[4]				
(c)	rata if	Any suitable ideas. At least three different ideas for maximum marks. Pro rata if fewer. Communication								
	Simple	e drawings displaying a lo	ow standard or limited rang		(0-2)					
		drawings displaying a goo g /colour/annotation etc	od standard and a range o	standard and a range of techniques –	(3-4)					
	High q	High quality drawings using a wide range of techniques with clear annotation and detail		vith clear	, ,					
		uitability			(5-6)					
	Simplis Rather	stic designs showing outl more detail, sensible so		nstruction	(0-2) (3-4) (5-6)	[12]				
(d)	Evalua	ation of each of the ideas.	. At least 3 evaluations up	o to 2 marks each	(0-6)					
	Selecti	ion and justification. (1+1	1)		(2)	[8]				
(e)	Poor li Good I	y of drawing ne quality, proportions, lit line work, use of colour, p tandard throughout with a		show clearly all	(1) (2-3) (4)					
	Dimen	nsions 2 or 3 overall di Additional detail	mensions only - 1 I dimensions - 2		(2)					
		ruction details blistic approach showing I	little or no detail of constru	uction to be used	(0-2)					
	Most c	Most constructional detail may be obvious from overall views or with some annotation		,						
			clear with good annotation	and additional	(3-4) (5-6)					
	detail drawings as necessary					[12]				
(f)		le specific materials stat oriate reasons for choice.			(2) (2)	[4]				
(g)		le method stated. detailed description of:	processes tools.		(1) (3) (2)	[6]				

Mark Scheme: Teachers' version

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