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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.

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

Cambridge is publishing the mark schemes for the May/June 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	0		
raye z		IGCSE – May/June 2011	Syllabus 0445	900	
(a)		any four additional suitable points – easy to proof, appropriate height, baby cannot fall off, stor	clean, stable in use, age for items, etc.	ORDACAI (1x4)	Abridge
(b)	Accept division	(2x2)	[4]		
(c)	Any su rata if f				
	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			(5-6)	
	Rather	ility stic designs showing outlines only more detail, sensible solutions that could work te solutions, good fitness for purpose, detailed co	nstruction	(0-2) (3-4) (5-6)	[12]
(d)		tion of each of the ideas. At least 3 evaluations uon and justification. (1+1)	p to 2 marks each	(0-6) (2)	[8]
(e)	Poor lii Good l	y of drawing ne quality, proportions, little detail ine work, use of colour, proportions, some detail tandard throughout with a range of techniques sions 2 or 3 overall dimensions only - 1 Additional detail dimensions - 2	that show clearly all	(1) (2-3) (4) (2)	
	Const	(-)			
	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				
		nstructional detail will be clear with good anno Irawings as necessary	tation and additional	(5-6)	[12]
(f)		e specific materials stated. oriate reasons for choice.		(2) (2)	[4]
(g)		e method stated. detailed description of: processes tools.		(1) (3) (2)	[6]

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[Total: 50]

Dogo 2		Mark Scheme: Teachers' version Syllabus					
Page 3				eachers' version ny/June 2011	Syllabus 0445	80	
(a)			ur additional su	itable points – appeal to	p pupils, compact, well, etc.	dayac (1x4)	Morie
(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. Pr 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				(0-2)		
					(3-4) (5-6)		
						(0-2)	
	Rather	more de	etail, sensible sol	utions that could work for purpose, detailed con	struction	(3-4) (5-6)	[12]
(d)	Evaluation of each of the ideas. At least 3 evaluations up to 2 marks ea				to 2 marks each	(0-6)	
	Selection and justification. (1+1)					(2)	[8]
(e)	Poor li Good l	ine work tandard	y, proportions, lit , use of colour, p throughout with	roportions, some detail a range of techniques the mensions only - 1	at show clearly all	(1) (2-3) (4) (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					(0-2)	
	All cor	nstruction	nal detail will be as necessary	clear with good annotat	ion and additional	(3-4) (5-6)	[12]
(f)	Suitable specific materials stated.			(2)	F 4-		
	Approp	oriate rea	sons for choice.			(2)	[4]
(g)			d stated. description of:	processes tools.		(1) (3) (2)	[6]

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[Total: 50]

Page 4			Mark Scheme: 1	Teachers' version	Syllabus	.D.	hr
raţ	<u> 1</u> − 1			ay/June 2011	0445	%	
		I			1 00	00	1
(a)		Accept any four additional suitable points – will not tip over, east to clean, hygienic, no harm to pets, easy to fill, adjustable timing, food easily				(1x4)	Moni
		accessible, etc.					3
(b)	•	Itage su	•	 clockwork, battery power power, etc.(similar batteries) 		(2x2)	[4]
(c)	Any suitable ideas. At least three different ideas for maximum marks. Prata if fewer. Communication						
	Simple	Simple drawings displaying a low standard or limited range of techniques Clear drawings displaying a good standard and a range of techniques –				(0-2)	
	shading /colour/annotation etc High quality drawings using a wide range of techniques with clear				(3-4) (5-6)		
		annotation and detail Suitability					
	Rather	r more d		ines only lutions that could work s for purpose, detailed con	struction	(0-2) (3-4) (5-6)	[12]
(d)	Evalua	ation of e	each of the ideas	. At least 3 evaluations up	to 2 marks each	(0-6)	
	Selection and justification. (1+1)					(2)	[8]
(e)		y of dra		ttle detail		(1)	
	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					(2-3)	
	detail Dimensions 2 or 3 overall dimensions only - 1						
		ruction				(2)	
	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					(0-2)	
	All con	nstruction	nal detail will be o	clear with good annotation	and additional	(5-4)	[12]
			•			, ,	
(f)		-	fic materials stat asons for choice.			(2) (2)	[4]
(g)			od stated. description of:	processes tools.		(1) (3)	[6]
				10015.		(2)	[6]

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[Total: 50]