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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2010 question paper for the guidance of teachers

0445 DESIGN AND TECHNOLOGY

0445/11

Paper 11 (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.

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

CIE is publishing the mark schemes for the May/June 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Page 2		Mark Scheme	e: Teachers' version	Syllabus	S. V	
	-		May/June 2010	0445	Bas	
(a)	•	-	uitable points – stable in use natches surroundings, etc.	e, easy to remove,	ADACA,	norida
(b)	Accept drawings of any two protection methods – small contact surfaces, soft materials, rubber, foam, etc.				(2 × 2)	[4]
(c)	Any suitable ideas. At least three different ideas for maximum marks. Prorata 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)		ion of each of the idea on and justification.(1	s. At least 3 evaluations up t + 1)	o 2 marks each	(0–6) (2)	[8]
(e)	-	of drawing			(4)	
	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				(1) (2–3)	
					(4)	
					(2)	
					(0–2)	
	annotat	annotation All constructional detail will be clear with good annotation and additional				
		rawings as necessary	Ç		(5–6)	[12]
(f)	Suitable specific materials stated.				(2)	
	Approp	riate reasons for choic	e.		(2)	[4]
(g)		e method stated.	processos		(1)	
	G000 0	etailed description of:	processes tools.		(3) (2)	[6]

[Total: 50]

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Page 3			Mark Scheme	: Teachers' version		Syllabus	O V	,
. u				May/June 2010		0445	OD3	
! (a)	materia	ıls, easy		uitable points – attract a nal storage space, high items, etc.		on, minimal use of appearance, easy	ORDACAI (1 × 4)	nbridge
(b)	•	•	o access me sections, etc.	ethods – tuck-in flaps	s, lift	off top, adhesive	(2 × 2)	[4]
(c)	rata if for Common Simple Clear of Shading High quand det Suitabi	ewer. unicatio drawings drawings g/colour/s uality dra tail	n s displaying a displaying a annotation etc. wings using a	wide range of techniqu	range range	of techniques e of techniques –	(0-2) (3-4) (5-6)	
	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)	[12]		
(d)			ach of the idea stification. (1	s. At least 3 evaluation + 1)	ıs up to	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, candard sions uction construction struction struction	y, proportions, use of colour, throughout wit 2 or 3 overall Additional det letails roach showing onal detail ma	little detail proportions, some detail th a range of techniqu dimensions only – 1 tail dimensions – 2 g little or no detail of cor ny be obvious from ove	es than estruct	ion to be used ews or with some	(1) (2-3) (4) (2) (0-2) (3-4) (5-6)	[12]
(f)		-	i c materials sta sons for choice				(2) (2)	[4]
(g)		e method etailed d	d stated. lescription of:	processes tools.			(1) (3) (2)	[6]

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[Total: 50]

Page 4		Mark Scheme: Teachers' version	Syllabus	0	
гау	JC -1	IGCSE – May/June 2010	0445	OD.	
(a)	Accept any four additional suitable points – easy to operate, minimal space, stable in use, safe for child to use, appealing to child, etc.				Mbridge
(b)	Accept any two types of battery – AAA, AA, C, D, PP3, disc type, etc.				[4]
(c)	rata if for Common Simple Clear or shading High quand det Suitabi Simplis Rather	unication drawings displaying a low standard or limited range drawings displaying a good standard and a rang g/colour/annotation etc. uality drawings using a wide range of techniques witali	e of techniques e of techniques – th clear annotation	(0-2) (3-4) (5-6) (0-2) (3-4) (5-6)	[12]
(d)		ion of each of the ideas. At least 3 evaluations up ton and justification. (1 + 1)	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	Additional detail dimensions – 2 uction details istic approach showing little or no detail of constructional detail may be obvious from overall v	tion 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]