UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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for the guidance of teachers

0445 DESIGN AND TECHNOLOGY

0445/12

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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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 Syllabu	is s	K
	IGCSE – October/November 2011 0445	230	
	ot any four additional suitable points – reels held securely, eas a out, able to see different colours, stored in different sizes, p		mbrios
	t drawings of any two retaining methods – on dowels, in clips, , in slots, separate sections, etc.	held by (2x2)	[4
rata if	Any suitable ideas. At least three different ideas for maximum marks. Pro rata 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 – shading/colour/annotation etc.		
and de	High quality drawings using a wide range of techniques with clear annotation and detail		
Rathe	bility stic designs showing outlines only r more detail, sensible solutions that could work ate solutions, good fitness for purpose, detailed construction	(0–2) (3–4) (5–6)	[12
(d) Evalua	ation of each of the ideas. At least 3 evaluations up to 2 marks e	each (0–6)	
Select	tion and justification (1+1)	(2)	[8]
	ty of drawing	(1)	
Good	ine quality, proportions, little detail line work, use of colour, proportions, some detail standard throughout with a range of techniques that show cle	(1) (2–3) early all	
detail Dime	nsions 2 or 3 overall dimensions only – 1	(4)	
-	Additional detail dimensions – 2	(2)	
A sim	t ruction details olistic approach showing little or no detail of construction to be us	· · ·	
annot	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		
	ngs as necessary	(5–6)	[12
(f) Suitab	le specific materials stated	(2)	
Appro	priate reasons for choice	(2)	[4
	ble method stated	(1)	
Good	detailed description of: processes	(3)	

[Total: 50]

	ge 3	Mark Scheme: Teachers' version	Syllabus V	ð.	
		IGCSE – October/November 2011	0445	Da	
(a)		our additional suitable points – colourfung part, hygienic, does not break with daily u	l, appeal to young use, etc.	panacar (1x4)	nbrio
(b)		ngs of any two interesting features – ch viewing 'windows', etc.	nildren's characters,	(2x2)	[4
(c)	Any suitable i rata if fewer Communicati	deas. At least three different ideas for m on	aximum marks. Pro		
	•	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.			
	shading/coloui				
	High quality drawings using a wide range of techniques with clear annotation and detail			(5–6)	
	Suitability			. ,	
		gns showing outlines only letail, sensible solutions that could work		(0–2) (3–4)	
		ions, good fitness for purpose, detailed cons	struction	(5–6)	[12
(4)	Evolution of a	and of the ideas. At least 2 suclustices up	to O montro coch		
(d)		each of the ideas. At least 3 evaluations up	to 2 marks each	(0–6) (2)	го
		justification (1+1)		(2)	[8]
(e)	Quality of dra	wing ty, proportions, little detail		(1)	
	Good line worl	k, use of colour, proportions, some detail		(1) (2–3)	
	High standard detail	I throughout with a range of techniques the	hat show clearly all	(4)	
	Dimensions	2 or 3 overall dimensions only – 1			
	Construction	Additional detail dimensions – 2 details		(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			(0–2)	
	annotation	-		(3–4)	
	All construction drawings as ne	nal detail will be clear with good annotation ecessary	and additional detail	(5–6)	[12
(6)		.			
(f)	-	ific materials stated		(2)	гл
	Appropriate re	asons for choice		(2)	[4
(a)	Suitable metho	od stated		(1)	
(g)	<u> </u>	description of: processes		(3)	

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[Total:	DUI

		Scheme: Teachers' version = – October/November 2011	Syllabus 0445	ap.	
	pt any four additional suitable points – simple to use, compact, large ber of coins at one time, stacks sorted coins, wide range of coins, etc.			oapaCall (1x4)	hbilde
• •	Accept any four properties – weight, diameter, shape, thickness, metal type, value, etc.		(1x4)	[4]	
rata	r suitable ideas. A ⊨if fewer nmunication	t least three different ideas for m	aximum marks. Pro		
	Simple drawings displaying a low standard or limited range of techniques Clear drawings displaying a good standard and a range of techniques –			(0–2)	
	ading/colour/annotation etc. In quality drawings using a wide range of techniques with clear annotation		(3–4)		
	detail tability			(5–6)	
Sim Rat	plistic designs sho her more detail, se	owing outlines only ensible solutions that could work bod fitness for purpose, detailed cons	struction	(0–2) (3–4) (5–6)	[12]
(d) Eva	luation of each of	the ideas. At least 3 evaluations up	to 2 marks each	(0–6)	
Sele	ection and justifica	tion (1+1)		(2)	[8]
	ality of drawing or line quality, prop	ortions, little detail		(1)	
		f colour, proportions, some detail hout with a range of techniques tl	hat show clearly all	(2–3)	
deta Dim		overall dimensions only – 1	-	(4)	
Сог		onal detail dimensions – 2		(2)	
A si	mplistic approach	showing little or no detail of construc etail may be obvious from overall		(0–2)	
ann	otation	il will be clear with good annotation		(3–4)	
	wings as necessar	-		(5–6)	[12]
(f) Suit	able specific mate	erials stated		(2)	
Арр	propriate reasons fo	or choice		(2)	[4]
(0)	able method state			(1)	
GOC	od detailed descrip	tools		(3) (2)	[6]