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 Syllabus			
	3	IGCSE – October/November 2011 0445	apa		
(a)		any four additional suitable points – reels held securely, easy to put out, able to see different colours, stored in different sizes, portable,	bahaCal (1x4)	mbride	
(b)		drawings of any two retaining methods – on dowels, in clips, held by in slots, separate sections, etc.	(2x2)	[4]	
(c)	rata if fe	table ideas. At least three different ideas for maximum marks. Pro ewer u nication			
	Simple	drawings displaying a low standard or limited range of techniques	(0–2)		
		Clear drawings displaying a good standard and a range of techniques – shading/colour/annotation etc.			
		ality drawings using a wide range of techniques with clear annotation	(3–4) (5–6)		
	Suitabi		(0-0)		
	Simplist Rather	ic designs showing outlines only more detail, sensible solutions that could work e solutions, good fitness for purpose, detailed construction	(0–2) (3–4) (5–6)	[12]	
(d)	Evaluat	ion of each of the ideas. At least 3 evaluations up to 2 marks each	(0–6)		
	Selectio	on and justification (1+1)	(2)	[8]	
(e)	Quality	of drawing			
(0)	Poor lin	e quality, proportions, little detail	(1)		
		ne work, use of colour, proportions, some detail andard throughout with a range of techniques that show clearly all	(2–3)		
	detail Dimens		(4)		
		Additional detail dimensions – 2	(2)		
	A simpl	uction details istic approach showing little or no detail of construction to be used	(0–2)		
	Most co annotat	onstructional detail may be obvious from overall views or with some ion	(3–4)		
	All cons	tructional detail will be clear with good annotation and additional detail	. ,	[10]	
	urawing	is as necessary	(5–6)	[12]	
(f)	Suitable	e specific materials stated	(2)		
	Approp	iate reasons for choice	(2)	[4]	
(g)		e method stated	(1)		
	Good d	etailed description of: processes tools	(3) (2)	[6]	
			F T - 4	1. 507	
			[Tota	I: 5	

	ge 3	Mark Scheme: Teachers' version	Syllabus	an I	
		IGCSE – October/November 2011	0445	Por.	
(a)		our additional suitable points – colourfung part, hygienic, does not break with daily	ul, appeal to young use, etc.	рана Сан (1x4)	nbrid
(b)		igs of any two interesting features – c viewing 'windows', etc.	hildren's characters,	(2x2)	[4
(c)	Any suitable ic rata if fewer Communicati o	deas. At least three different ideas for n	naximum marks. Pro		
	Simple drawing	gs displaying a low standard or limited rang		(0–2)	
	•	s displaying a good standard and a rar /annotation etc.	nge of techniques –	(3–4)	
	0	awings using a wide range of techniques	with clear annotation	. ,	
	Suitability			(5–6)	
	Simplistic design Rather more de	gns showing outlines only etail, sensible solutions that could work ions, good fitness for purpose, detailed cor	nstruction	(0–2) (3–4) (5–6)	[12
(d)	Evaluation of e	each of the ideas. At least 3 evaluations up	to 2 marks each	(0–6)	
	Selection and j	ustification (1+1)		(2)	[8
(e)	Quality of dra			(4)	
	Good line work	ty, proportions, little detail k, use of colour, proportions, some detail throughout with a range of techniques t	that show clearly all	(1) (2–3)	
	detail Dimensions			(4)	
	Dimensions	2 or 3 overall dimensions only – 1 Additional detail dimensions – 2		(2)	
		proach showing little or no detail of constru		(0–2)	
	Most construct annotation	tional detail may be obvious from overall	views or with some	(3–4)	
	All constructior drawings as ne	nal detail will be clear with good annotation ecessary	and additional detail	(5–6)	[12
(f)	Suitable speci i	fic materials stated		(2)	
(f)	-	asons for choice		(2) (2)	[4
	Appropriate rea			(2)	[7
	Suitable metho	od stated		(1)	
(g)		description of: processes		(3)	

[Total: #	50]
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 (a) Accept any four additional suitable points – simple to use, compact, large number of coins at one time, stacks sorted coins, wide range of coins, etc. (b) Accept any four properties – weight, diameter, shape, thickness, metal type, value, etc. (c) Any suitable ideas. At least three different ideas for maximum marks. Pro rata if fewer Communication etc. (c) Any suitable drawings displaying a low standard or limited range of techniques – shading/colour/annotation etc. (c) High quality drawings using a wide range of techniques of techniques – shading/colour/annotation etc. (d) Suitability (d) Evaluation of each of the ideas. At least 3 evaluations up to 2 marks each Selection and justification (1+1) (e) Quality of drawing (f) Suitable specific materials stated (2) Appropriate reasons for choice (f) Suitable specific materials stated (2) Appropriate reasons for choice 	Pa	ige 4	Mark Scheme: Teachers' versionSyllabusIGCSE – October/November 20110445	Sec.		
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