UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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for the guidance of teachers

0445 DESIGN AND TECHNOLOGY

0445/11

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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Page 2		Mark Scheme: Teachers' versionSyllabusIGCSE – October/November 20110445		Papa	
(a)	•	ge 2Mark Scheme: Teachers' versionSyllabusIGCSE – October/November 20110445Accept any four additional suitable points – easy to keep clean, water/ weather proof, lightweight, comfortable to carry, place to hang leather etc.			mbrie
(b)	Accept drawings of any two suitable handle methods – cut out slot, added loops, drilled holes, straps, ledges etc.			(2 x 2)	[4]
(c)	Any suit rata if fe	able ideas. At least three different ideas for maxi wer.	mum marks. Pro		
		nication Irawings displaying a low standard or limited range o	ftechniques	(0–2)	
	Clear di	Clear drawings displaying a good standard of infliced range of techniques – shading /colour/annotation etc High quality drawings using a wide range of techniques with clear annotation and detail			
	High qua				
	Suitabil	Suitability			
	Rather n	c designs showing outlines only nore detail, sensible solutions that could work e solutions, good fitness for purpose, detailed constru	uction	(0–2) (3–4) (5–6)	[12]
(d)		on of each of the ideas. At least 3 evaluations up to an and justification (1 + 1)	2 marks each	(0–6) (2)	[8]
(e)	Poor line Good lin	of drawing e quality, proportions, little detail e work, use of colour, proportions, some detail andard throughout with a range of techniques that	show clearly all	(1) (2–3) (4)	
		ions /erall dimensions only (1) al detail dimensions (2)		(2)	
		Construction details A simplistic approach showing little or no detail of construction to be used			
	Most co	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			
	All const				[12]
(f)		specific materials stated. ate reasons for choice.		(2) (2)	[4]
(g)	Suitable	method stated.		(1)	
,	Good detailed description of: processes tools.		(3) (2)	[6]	
				[Tota	l: 501

	Pa	ge 3	Mark Scheme: Teachers' version	Syllabus	S.	r
			IGCSE – October/November 2011	0445	20	
2 (a	a)	age 3 Mark Scheme: Teachers' version Syllabus IGCSE – October/November 2011 0445 Accept any four additional suitable points – attract attention, compact, colourful, reflect 'DVD of the week', include name of DVD, can be folded, easily assembled etc. Accept any two folding methods – scoring, flexible tape, 'comb' joint, plastic binge rings etc				mbrie
(b)	Accept any two folding methods – scoring, flexible tape, 'comb' joint, plastic hinge, rings, etc.				[4]
(c)	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				
		Rather r	lity ic designs showing outlines only more detail, sensible solutions that could work e solutions, good fitness for purpose, detailed constr	uction	(0–2) (3–4) (5–6)	[12]
(0	d)		ion of each of the ideas. At least 3 evaluations up to on and justification (1 + 1)	2 marks each	(0–6) (2)	[8]
(e)	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			(1) (2–3)	
		detail				
		Dimensions 2 or 3 overall dimensions only (1) Additional detail dimensions (2)				
		Construction details				
		-	stic approach showing little or no detail of construction operations of the struction of the structure of th		(0–2)	
		annotati All cons	ion tructional detail will be clear with good annotation ar	nd additional detail	(3–4)	
			is as necessary		(5–6)	[12]
(1	F)	Suitable	e specific materials stated.		(2)	
	,		iate reasons for choice.		(2)	[4
		, ibbiobi			(2)	Ľ

Pa	age 4	Mark Scheme: Teachers' version	Syllabus	2	
		IGCSE – October/November 2011	0445	Dec	
(g)		e method stated. etailed description of: processes tools.		Papa Car (1) (3) (2) [Tota	MB/10
a)	•	any four additional suitable points – safe for viewe ot frighten children, match surroundings, garden/pla ent etc.		(1 x 4)	[4]
(b)	Accept	any two wind movements – sail, turbine, flap, fin, vor	tex etc.	(2 x 2)	[4]
c)	Any sui rata if fe	table ideas. At least three different ideas for max ewer.	imum marks. Pro		
	Simple	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			
	shading				
	and det			(5–6)	
	Rather	lity tic designs showing outlines only more detail, sensible solutions that could work e solutions, good fitness for purpose, detailed constru	uction	(0–2) (3–4) (5–6)	[12]
d)		ion of each of the ideas. At least 3 evaluations up to on and justification. (1 + 1)	2 marks each	(0–6) (2)	[8]
e)	Poor lin Good lir	of drawing e quality, proportions, little detail ne work, use of colour, proportions, some detail andard throughout with a range of techniques that	t show clearly all	(1) (2–3) (4)	
		sions verall dimensions only (1) nal detail dimensions (2)		(2)	
		uction details istic approach showing little or no detail of constructio	on to be used	(0–2)	
	Most constructional detail may be obvious from overall views or with some annotation		(3–4)		
	All cons	All constructional detail will be clear with good annotation and additional detail drawings as necessary			

