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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 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 October/November 2011 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

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	Page 2		Mark Scheme: Teachers' version	Syllabus	3	(
			IGCSE – October/November 2011	0445	2000	
1	(a)	Accept any four additional suitable points – easy to keep clean, water/ weather proof, lightweight, comfortable to carry, place to hang leather etc.		Papa Car	Mbridge	
	(b)		drawings of any two suitable handle methods – c rilled holes, straps, ledges etc.	ut out slot, added	(2 x 2)	[4]
	(c)	Any suit	table ideas. At least three different ideas for maxwer.	kimum marks. Pro		
		Simple	inication drawings displaying a low standard or limited range of rawings, displaying a good standard and a range	·	(0–2)	
				(3-4)		
		High quant	ality drawings using a wide range of techniques wit	h clear annotation	(5–6)	
		Rather r	ity ic designs showing outlines only more detail, sensible solutions that could work e solutions, good fitness for purpose, detailed constr	ruction	(0–2) (3–4) (5–6)	[12]
	(d)		on of each of the ideas. At least 3 evaluations up to n and justification (1 + 1)	2 marks each	(0–6) (2)	[8]
	(e)	Poor line Good lin	of drawing e quality, proportions, little detail ne work, use of colour, proportions, some detail andard throughout with a range of techniques tha	at show clearly all	(1) (2–3) (4)	
			ions verall dimensions only (1) al detail dimensions (2)		(2)	
		A simplimost co annotati All cons	action details stic approach showing little or no detail of construction structional detail may be obvious from overall vision tructional detail will be clear with good annotation are as as necessary	ews or with some	(0–2) (3–4) (5–6)	[12]

Suitable **specific** materials stated.

Good detailed description of: processes

tools.

Appropriate reasons for choice.

Suitable method stated.

(f)

(g)

[Total: 50]

[4]

[6]

(2) (2)

(1)

(3) (2)

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Syllabus

	. 9	IGCSE – October/November 2011	0445	80	
(a)	colourfu	any four additional suitable points – attract at I, reflect 'DVD of the week', include name of DV ssembled etc.	ttention, compact, D, can be folded,	(1 x 4)	hbridge.
(b)	•	Accept any two folding methods – scoring, flexible tape, 'comb' joint, plastic		(2 x 2)	[4]
(c)	Any suit	table ideas. At least three different ideas for maxwer.	ximum marks. Pro		
		inication		(0.0)	
		drawings displaying a low standard or limited range or rawings displaying a good standard and a range		(0–2)	
	shading	/colour/annotation etc	·	(3–4)	
	and deta	ality drawings using a wide range of techniques wit ail	in clear annotation	(5–6)	
	Rather r	ity ic designs showing outlines only more detail, sensible solutions that could work e solutions, good fitness for purpose, detailed constr	ruction	(0-2) (3-4) (5-6)	[12]
(d)		on of each of the ideas. At least 3 evaluations up to n and justification (1 + 1)	2 marks each	(0–6) (2)	[8]
(e)	Poor line Good lin	of drawing e quality, proportions, little detail ne work, use of colour, proportions, some detail andard throughout with a range of techniques tha	at show clearly all	(1) (2–3) (4)	
		ions verall dimensions only (1) al detail dimensions (2)		(2)	
	A simpli	uction details stic approach showing little or no detail of constructionstructions!		(0–2)	
	annotati	on		(3–4)	
		tructional detail will be clear with good annotation ar s as necessary	iu addilional detall	(5–6)	[12]
(f)		specific materials stated. iate reasons for choice.		(2) (2)	[4]

Mark Scheme: Teachers' version

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Pa		ge 4	Mark Scheme: Teachers' version	Syllabus	8	
			IGCSE – October/November 2011	0445	Pan	
	(g)		e method stated. etailed description of: processes tools.		(1) (3) (2)	Abhidge
					•	
3	(a)	•	any four additional suitable points – safe for viewent frighten children, match surroundings, garden/platent etc.		(1 x 4)	[4]
	(b)	Accept a	any two wind movements – sail, turbine, flap, fin, vor	tex etc.	(2 x 2)	[4]
	(c)	Any suit	table ideas. At least three different ideas for max wer.	imum marks. Pro		
		Simple of Clear drawn shading	Inication drawings displaying a low standard or limited range of rawings displaying a good standard and a range /colour/annotation etc ality drawings using a wide range of techniques withail	of techniques -	(0–2) (3–4) (5–6)	
		Rather n	lity ic 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)		on of each of the ideas. At least 3 evaluations up to n and justification. (1 + 1)	2 marks each	(0–6) (2)	[8]
	(e)	Poor line Good lin	of drawing e quality, proportions, little detail ne work, use of colour, proportions, some detail andard throughout with a range of techniques tha	t show clearly all	(1) (2–3) (4)	
			ions verall dimensions only (1) al detail dimensions (2)		(2)	
		A simplis Most co annotation	action details stic approach showing little or no detail of construction snstructional detail may be obvious from overall vie on tructional detail will be clear with good annotation an	ews or with some	(0–2) (3–4)	
			s as necessary		(5–6)	[12]

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Suitable **specific** materials stated. Appropriate reasons for choice. (f)

Suitable method stated. (g) Good detailed description of: processes tools.

(1) (3) (2)

[6]

[Total: 50]