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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.

Page 2		ae 2	Mark Scheme	e: Teachers' version	Syllabus	0	
				ober/November 2011	0445	apar.	
I	(a)			suitable points – easy to k mfortable to carry, place to ha	eep clean, water/ ng leather etc.	AdhaCall	Abridge .
	(b)		drawings of any two rilled holes, straps, led	suitable handle methods – o dges etc.	cut out slot, added	(2 x 2)	[4]
	(c)	Any suitable ideas. At least three different ideas for maximum marks. Pro rata if fewer.					
		Simple of Clear dishading	rawings displaying a /colour/annotation etc ality drawings using a	low standard or limited range good standard and a range ; wide range of techniques wi	e of techniques -	(0–2) (3–4) (5–6)	
		Rather r	ic designs showing ou nore detail, sensible s	tlines only olutions that could work ss for purpose, detailed const	ruction	(0–2) (3–4) (5–6)	[12]
	(d)		on of each of the idea n and justification (1 +	s. At least 3 evaluations up to · 1)	2 marks each	(0–6) (2)	[8]
	(e)	Poor line Good lin		little detail proportions, some detail th a range of techniques tha	at show clearly all	(1) (2–3) (4)	
			ions verall dimensions only al detail dimensions (2	` '		(2)	
		A simplis Most co annotation	nstructional detail ma on	g little or no detail of constructi ay be obvious from overall vi e clear with good annotation a	ews or with some	(0–2) (3–4) (5–6)	[12]
	(f)	Suitable	s as necessary specific materials state reasons for choice			(2) (2)	[4]
	(g)		method stated. etailed description of:	processes tools.		(1) (3) (2)	[6]

[Total: 50]

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Page 3		Mark Scheme: Teachers' version	Syllabus	0	,
га	ge 3	IGCSE – October/November 2011	0445	90	
(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,	ONDA Cal	hbridge
(b)	Accept any two folding methods – scoring, flexible tape, 'comb' joint, plastic hinge, rings, etc.			(2 x 2)	[4]
(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			(0–2) (3–4) (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)	
	2 or 3 ov	verall dimensions only (1) al detail dimensions (2)		(2)	
	A simpli Most co annotati All cons	action details stic approach showing little or no detail of constructionstructional detail may be obvious from overall vision on tructional detail will be clear with good annotation ar s as necessary	ews or with some	(0–2) (3–4) (5–6)	[12]
(f)		specific materials stated. iate reasons for choice.		(2) (2)	[4]

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	Page 4		Mark Scheme: Teachers' version Syllabus			
			IGCSE – October/November 2011	0445	Do	
	(g)	Suitable method stated. Good detailed description of: processes tools.		(1) (3) (2) [Total	hbridge:	
3	(a)	Accept any four additional suitable points – safe for viewers, stable in use, does not frighten children, match surroundings, garden/plant theme, gentle movement etc.			(1 x 4)	[4]
	(b)	Accept any two wind movements – sail, turbine, flap, fin, vortex etc.		rtex etc.	(2 x 2)	[4]
	(c)	Any suitable ideas. At least three different ideas for maximum marks. Pro rata if fewer.				
		Simple of Clear drawshading	nication drawings displaying a low standard or limited range of rawings displaying a good standard and a range of /colour/annotation etc ality drawings using a wide range of techniques within	e of techniques -	(0–2) (3–4) (5–6)	
		Rather n	ity c designs showing outlines only nore detail, sensible solutions that could work e solutions, good fitness for purpose, detailed constr	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 e 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 All const	action details stic approach showing little or no detail of construction structional detail may be obvious from overall vio on tructional detail will be clear with good annotation ar as as necessary	ews or with some	(0–2) (3–4) (5–6)	[12]
		J	•		. ,	

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	IGCSE – October/November 2011	0445	100	

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]