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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2012 question paper 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.

• Cambridge will not enter into discussions or correspondence in connection with these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2012 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	r
		IGCSE – May/June 2012	0445	2
(a)	wate	ept any four additional suitable points – easy to clear, appropriate height/position, items easy to access ches bathroom, etc.	an, resists ss/remove, (1x4)	Cambridge.
(b)		ept drawings of any two suitable places – on shelf, cow ledge, in drawer, etc.		[4]
(c)	mark Com Simp techi Clea techi High anno Suit Simp Rath	suitable ideas. At least three different ideas for as. Pro rata if fewer. Immunication Die drawings displaying a low standard or limited niques Out drawings displaying a good standard and a niques – shading /colour/annotation etc Out quality drawings using a wide range of techniques obtation and detail ability Dilistic designs showing outlines only her more detail, sensible solutions that could work arrate solutions, good fitness for purpose, detailed corrections.	range of	[12]
(d)	mark	uation of each of the ideas. At least 3 evaluation as each ction and justification. (1+1)	s up to 2 (0-6) (2)	[8]
(e)	Poor Good High clear Dime Con A sir be u Most with All of	lity of drawing line quality, proportions, little detail d line work, use of colour, proportions, some detail standard throughout with a range of techniques rly all detail ensions 2 or 3 overall dimensions only - 1 Additional detail dimensions - 2 struction details mplistic approach showing little or no detail of cons sed t constructional detail may be obvious from overal some annotation constructional detail will be clear with good annotational detail drawings as necessary	(4) (2) truction to (0-2) I views or (3-4)	[12]
(f)		able specific materials stated. ropriate reasons for choice.	(2) (2)	[4]
(g)		able method stated. d detailed description of: processes tools.	(1) (3) (2)	[6]

1

[Total: 50]

Page 3		Mark Scheme: Teachers' version	Syllabus	Q V
. ugo o		IGCSE – May/June 2012	0445	Sp.
(a)	simp	ept any four additional suitable points – appealing ble instructions, reflect issue, can be folded, easily a dy for children's play, etc.	to children, assembled, (1x4)	O ADAC AMBRIDGE
(b)	wast	ept any four environmental issues – water co ting energy, loss of forests, pollution, use of finite on footprint, etc.	nservation,	[4]
(c)	mark Com Simp tech Clea tech High anno Suit Simp Rath	suitable ideas. At least three different ideas for its. Pro rata if fewer. Immunication Die drawings displaying a low standard or limited iniques In drawings displaying a good standard and a iniques – shading /colour/annotation etc I quality drawings using a wide range of techniques obtation and detail Impulsive ability Distinct designs showing outlines only iter more detail, sensible solutions that could work urate solutions, good fitness for purpose, detailed contains.	d range of (0-2) range of (3-4) s with clear (5-6) (0-2) (3-4)	[12]
(d)	marl	uation of each of the ideas. At least 3 evaluations each ction and justification. (1+1)	ns up to 2 (0-6) (2)	[8]
(e)	Pool Goo High clear Dim Con A sii be u Mos with All of	lity of drawing Iline quality, proportions, little detail Id line work, use of colour, proportions, some detail In standard throughout with a range of techniques In standard throughout with a range of techniques Ity all detail In ensions 2 or 3 overall dimensions only - 1 Additional detail dimensions - 2 In ensions - 2	(4) (2) struction to (0-2) all views or (3-4)	[12]
(f)		able specific materials stated. ropriate reasons for choice.	(2) (2)	[4]
(g)		able method stated. d detailed description of: processes tools.	(1) (3) (2)	[6]

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[Total: 50]

Page 4		Mark Scheme: Teachers' version	Syllabus	\r
.		IGCSE – May/June 2012	0445	8
(a)	revo	ept any four additional suitable points – will no lving, easy to clean, hygienic, adjustable, fo essible, handle keeps cool, etc.	ot tip over, pod easily (1x4)	a Cambridge
(b)		ept any two mechanisms – clockwork, electret/wheel turning handle, vertical/horizontal rotating sp	ic motors,	[4]
(c)	mark Com Simp tech Clea tech High anno Suit Simp Rath	suitable ideas. At least three different ideas for as. Pro rata if fewer. Immunication Die drawings displaying a low standard or limited niques In drawings displaying a good standard and a niques – shading /colour/annotation etc In quality drawings using a wide range of techniques obtation and detail ability Dilistic designs showing outlines only her more detail, sensible solutions that could work wrate solutions, good fitness for purpose, detailed co	d range of (0-2) range of (3-4) s with clear (5-6) (0-2) (3-4)	[12]
(d)	marl	uation of each of the ideas. At least 3 evaluation as each ction and justification. (1+1)	ns up to 2 (0-6) (2)	[8]
(e)	Pool Goo High clea Dim Con A sil be u Mos with All o	lity of drawing Ine quality, proportions, little detail In dine work, use of colour, proportions, some detail In standard throughout with a range of techniques In standard throughout with a range	(4) (2) struction to (0-2) Ill views or (3-4)	[12]
(f)		able specific materials stated. ropriate reasons for choice.	(2) (2)	[4]
(g)		able method stated. d detailed description of: processes tools.	(1) (3) (2)	[6]

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[Total: 50]