CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2012 series

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 should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the October/November 2012 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.

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Page 2		Mark Scheme	Syllabus	0	
raye z		IGCSE – October/November 2012	0445	00	
(a)		any four additional suitable points – easy to ed, hygienic, easy to clean, comfortable/ergonomic h	load/unload, well andle, etc.	(1x4)	Abridge:
(b)	Accept drawings of any two types of carrying handle – leather strap, rope, case type, lip on material, cut-out in material, knobs, etc.				[4]
(c)	Any sui				
	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	lity tic designs showing outlines only more detail, sensible solutions that could work te solutions, good fitness for purpose, detailed const	ruction	(0-2) (3-4) (5-6)	[12]
(d)	Evaluat	ion of each of the ideas. At least 3 evaluations up to	o 2 marks each	(0-6)	
	Selection	on and justification. (1+1)		(2)	[8]
(e)	Poor lin Good li	of drawing ne quality, proportions, little detail ne work, use of colour, proportions, some detail andard throughout with a range of techniques that	at show clearly all	(1) (2-3) (4)	
	Dimens	sions 2 or 3 overall dimensions only (1) Additional detail dimensions (2)		(2)	
	A simpl Most co	uction details istic approach showing little or no detail of construct onstructional detail may be obvious from overall v		(0-2)	
		ion structional detail will be clear with good annotation a gs as necessary	nd additional detail	(3-4) (5-6)	[12]
(f)	Suitable	e specific materials stated. (1+1)		(2)	
	Approp	riate reasons for choice. (1+1)		(2)	[4]
(g)		e method described. etailed description of: processes tools.		(1) (3) (2)	[6]

[Total: 50]

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Page 3		ye s	Mark Scheme IGCSE – October/November 2012	Syllabus 0445	00	
2	(a)	Accept any four additional suitable points – colourful, attract attention, hygienic, bags cannot blow/fall out, capacity for daily emptying, can be folded for post, easy to load/unload, etc.			OdbaCall (1x4)	Abridge
	(b)	Accept drawings of any two attraction methods, large/simple lettering, movement, lighting, 3-D, sound, etc.			(2x2)	[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	lity tic designs showing outlines only more detail, sensible solutions that could work e solutions, good fitness for purpose, detailed cons	truction	(0-2) (3-4) (5-6)	[12]
	(d)	(d) Evaluation of each of the ideas. At least 3 evaluations up to 2 marks each		(0-6)		
		Selection	on and justification. (1+1)		(2)	[8]
	(e)	Poor lin Good lin	of drawing e quality, proportions, little detail ne work, use of colour, proportions, some detail andard throughout with a range of techniques th	at show clearly all	(1) (2-3) (4)	
			sions verall dimensions only (1) nal detail dimensions (2)		(2)	
		A simpli Most co	uction details istic approach showing little or no detail of construc onstructional detail may be obvious from overall v		(0-2)	
		annotation All constructional detail will be clear with good annotation and additional detail drawings as necessary	(3-4) (5-6)	[12]		
	(f)	Suitable	e specific materials stated. (1+1)		(2)	
		Appropi	riate reasons for choice. (1+1)		(2)	[4]
	(g)		e method described. etailed description of: processes tools.		(1) (3) (2) [Tota	[6] I: 50]

Page 4		ıe 4	Mark Scheme Syllabus			
	ı ay	JC T	IGCSE – October/November 2012	0445	00	
_	, ,				,Cal	76.
3	(a)	Accept any four additional suitable points – simple to play with, bright colours, easy to clean, safe shape, hygienic, rugged design, more than one child, etc.		Abacal (1x4)	Tide	
	(b)	Accept any two types of movement, paddle wheel, slide, chute, bucket belt, balance, screw, etc.		(2x2)	[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				(3-4)	
		and detail		ur cicar armotation	(5-6)	
		Suitabi Simplis	Ility tic designs showing outlines only		(0-2)	
		•	more detail, sensible solutions that could work		(3-4)	
		Accurat	te solutions, good fitness for purpose, detailed const	truction	(5-6)	[12]
	(d)	Evaluat	tion of each of the ideas. At least 3 evaluations up to	o 2 marks each	(0-6)	
		Selection	on and justification. (1+1)		(2)	[8]
	(e) Quality of drawing					
	Poor line quality, proportions, little detail			(1)		
		Good line work, use of colour, proportions, some detail High standard throughout with a range of techniques that show clearly all		at show clearly all	(2-3)	
		detail				
		Dimensions				
		2 or 3 overall dimensions only (1) Additional detail dimensions (2)				
			`,		(2)	
	Construction details A simplistic approach showing little or no detail of construction to be used Most constructional detail may be obvious from overall views or with so annotation All constructional detail will be clear with good annotation and additional details.			(0-2)		
				(3-4)		
			gs as necessary	illa additional detail	(5-6)	[12]
	(f)	Suitable	e specific materials stated. (1+1)		(2)	
		Approp	riate reasons for choice. (1+1)		(2)	[4]
	(g)		e method described.		(1)	
					(3) (2)	[6]

[Total: 50]