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CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2012 series

0445 DESIGN AND TECHNOLOGY

0445/13 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.

	-9-	IGCSE – October/November 2012	0445	800	
(a)	Accept any four additional suitable points – easy to clean, suitable for bathroom environment, matches bathroom, easy access when in use, etc.		(1×4)	Bridge	
(b)	Accept drawings of any two access methods, open shelves, slots, holes, flaps etc.		(2 × 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 —			(0 – 2)	
				,	
	shading /colour/annotation etc			(3 - 4)	
	and deta	High quality drawings using a wide range of techniques with clear annotation and detail		(5 – 6)	
		Suitability Simplistic designs showing outlines only		(0 - 2)	
		Rather more detail, sensible solutions that could work		(3-4)	[40]
	Accurate	solutions, good fitness for purpose, detailed constru	action	(5 - 6)	[12]
(d)	Evaluatio	on of each of the ideas. At least 3 evaluations up to	2 marks each	(0 – 6)	
	Selection	and justification. (1+1)		(2)	[8]
(0)	Ouglitu	of departing			
(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 detail		(2 - 3)		
			snow clearly all	(4)	
				()	
		Dimensions 2 or 3 overall dimensions only (1)			
	Additional detail dimensions (2)			(2)	
	Constru	ction details			
		tic approach showing little or no detail of constructionstructionstructional detail may be obvious from overall vie		(0 - 2)	
	annotatio	on		(3 - 4)	
		ructional detail will be clear with good annotation an as necessary	u additional detail	(5 - 6)	[12]
(f)	Suitable	specific materials stated. (1+1)		(2)	
				(5)	-
	Appropri	ate reasons for choice. (1+1)		(2)	[4]
(g)	Suitable method described.			(1)	
. •,	Good detailed description of: processes		(3)		
		tools.		(2)	[6]

Mark Scheme

Page 2

1

Syllabus

[Total: 50]

			4	1	
Pa	age 3	Mark Scheme	Syllabus	~ \	
		IGCSE – October/November 2012	0445	200	
(a)	Accept any four additional suitable points – colourful, attract attention, stable in use, easy to assemble, display of SPF issues, sun image, etc.				bridge.
(b)	Accept drawings of any two methods of display – shelves, clips, racks, hanging, etc.			(2 × 2)	[4]
(c)	Any suita rata if fev				
		of techniques of techniques –	(0 – 2)		
	Clear drawings displaying a good standard and a range of techniques – shading /colour/annotation etc				
		ality drawings using a wide range of techniques with	n clear annotation		
	and deta	il		(5 - 6)	
	Suitability Simplistic designs showing outlines only Rather more detail, sensible solutions that could work Accurate solutions, good fitness for purpose, detailed construction			(0-2) (3-4) (5-6)	[12]
(d)	Evaluation of each of the ideas. At least 3 evaluations up to 2 marks each			(0-6)	
(u)		n and justification. (1+1)	Z marks cach	(2)	[8]
(e)	Poor line Good line	of drawing quality, proportions, little detail e work, use of colour, proportions, some detail ndard throughout with a range of techniques tha	t show clearly all	(1) (2 – 3) (4)	
		ons 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 constructional detail may be obvious from overall views or with som			(0 – 2)	
		annotation All constructional detail will be clear with good annotation and additional detail		(3 - 4)	
				(F 0)	[40]
	drawings	s as necessary		(5 - 6)	[12]
(f)	Suitable	specific materials stated. (1+1)		(2)	
	Appropri	ate reasons for choice. (1+1)		(2)	[4]
(g)		method described. tailed description of: processes tools.		(1) (3) (2) [Total:	[6] 50]

2

		,	4	- 1	
Page 4		Mark Scheme	Syllabus V	3.	
		IGCSE – October/November 2012	0445	200	
(a)	Accept any four additional suitable points – simple to adjust, hygienic, easy to clean, suits wet environment, include light source, etc.			(1 × 4) (2 × 2)	bridge
(b)	Accept any two adjustment systems/mechanisms- counterweight, scissor action, sliders, telescope, etc.			(2 × 2)	[4]
(c)	Any suita				
	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		of techniques -	(0-2) (3-4) (5-6)	
	Rather m	ty c designs showing outlines only nore detail, sensible solutions that could work solutions, good fitness for purpose, detailed constru	uction	(0-2) (3-4) (5-6)	[12]
(d)	Evaluation	on of each of the ideas. At least 3 evaluations up to	2 marks each	(0 - 6)	
	Selection	and justification. (1+1)		(2)	[8]
(e)	Poor line Good line High star detail Dimensi 2 or 3 over	of drawing quality, proportions, little detail e work, use of colour, proportions, some detail endard throughout with a range of techniques that ons erall dimensions only (1) al detail dimensions (2)	t show clearly all	(1) (2 – 3) (4)	
	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 some annotation All constructional detail will be clear with good annotation and additional detail drawings as necessary			(2) (0 – 2) (3 – 4)	[12]
(f)	J	specific materials stated. (1+1)		(5-6) (2)	. 1
	Appropri	ate reasons for choice. (1+1)		(2)	[4]
(g)		method described. tailed description of: processes tools.		(1) (3) (2) [Total:	[6] 50]

3