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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.



Page 2		age 2	Mark Scheme	Syllabus	Paper	
			IGCSE – October/November 2012	0445	13	
1	(a)	Accept any <b>four</b> additional suitable points – easy to clean, suitable for bathroom environment, matches bathroom, easy access when in use, etc.		(1 × 4)	[4]	
	(b)	Accept drawings of any <b>two</b> access methods, open shelves, slots, holes, flaps etc.		(2 × 2)	[4]	
	(c)	Any suitable ideas. At least <b>three different</b> ideas for maximum marks. Pro rata if fewer. <b>Communication</b>				
		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)		
		•	c designs showing outlines only nore detail, sensible solutions that could work		(0-2) $(3-4)$	
			solutions, good fitness for purpose, detailed constr	uction	(5-4)	[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]
	(e)	Poor line Good line	of drawing quality, proportions, little detail work, use of colour, proportions, some detail endard 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 i			ction details tic approach showing little or no detail of construction	on to be used	(0 – 2)	
		annotatio			(3 - 4)	
			ructional detail will be clear with good annotation ar as necessary	nd additional detail	(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] <b>50]</b>

Page 3		age 3	Mark Scheme	Syllabus	Paper	
			IGCSE – October/November 2012	0445	13	
2	(a)	Accept any <b>four</b> additional suitable points – colourful, attract attention, stable in use, easy to assemble, display of SPF issues, sun image, etc.			(1 × 4)	[4]
	(b)	Accept drawings of any <b>two</b> methods of display – shelves, clips, racks, hanging, etc.		(2 × 2)	[4]	
	(c)	Any suitable ideas. At least <b>three different</b> 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		(0 – 2)		
				(3 - 4)		
		and deta			(5 - 6)	
		Rather m	ty c designs showing outlines only nore detail, sensible solutions that could work solutions, good fitness for purpose, detailed constr	uction	(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)		
		Selection	and justification. (1+1)		(2)	[8]
	(e)	Poor line Good line	of drawing quality, proportions, little detail work, use of colour, proportions, some detail andard 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)	
		A simplis	ction details tic approach showing little or no detail of construction structional detail may be obvious from overall vie		(0 – 2)	
		annotatio	on		(3 - 4)	
			ructional detail will be clear with good annotation ar as necessary	id additional detail	(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]

Page 4		ige 4	Mark Scheme	Syllabus	Paper	
			IGCSE – October/November 2012	0445	13	
3	(a)	Accept any <b>four</b> additional suitable points – simple to adjust, hygienic, easy to clean, suits wet environment, include light source, etc.			(1 × 4)	[4]
	(b)	Accept any <b>two</b> 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		(0-2) $(3-4)$ $(5-6)$		
		Suitabili Simplistic Rather m		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 sta detail <b>Dimensi</b> 2 or 3 ov	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)	
		A simplis Most cor annotation All consti	ction details  tic approach showing little or no detail of construction  structional detail may be obvious from overall view  on  ructional detail will be clear with good annotation and  as necessary	ews or with some	(2) $(0-2)$ $(3-4)$	[12]
	(f)	_	specific materials stated. (1+1)		(5 – 6) (2)	[]
		Appropria	ate reasons for choice. (1+1)		(2)	[4]
	(g)		method described. tailed description of: processes tools.		(1) (3) (2) [Total:	[6]
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