CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International General Certificate of Secondary Education

MARK SCHEME for the May/June 2015 series

0445 DESIGN AND TECHNOLOGY

0445/12 Paper 1 (Product 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.

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Pá	age 2		Syllabus	Pap	er			
		Cambridge IGCSE – May/June 2015	0445	12				
1	(a)	Accept any four additional suitable points – easy to move around, easy DVDs do not fall out, compact, keeps dust off DVDs, easy to see displa		-				
	(b)	Accept drawings of any two places – on counter, near the entrance, on checkout, etc.	the wall, n	ear (2×2)	[4]			
2	(a)	Accept any four additional suitable points – attractive colour/shape, has people to read, includes photos of some products sold, will go through etc.	•		′, [4]			
	(b)	Accept drawings of any two features – pop up, window to open, font size of shop, raised products, etc.	ze/colour, s	slider, p (2×2)	hoto [4]			
3	(a)	Accept any four additional suitable points – adjustable in length, takes shapes, lightweight to hold, comfortable to hold, easy to store, simple to			d [4]			
	(b)	Accept drawings of any two gripping mechanisms – screw cramps, jaw rubber clips, spring clips, etc.	rs, levers, fl	exible (2×2)	[4]			
Questions 1, 2 and 3								
	(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 technique Clear drawings displaying a good standard and a range of techniques -		(0–2)				
		/colour/annotation etc. High quality drawings using a wide range of techniques with	- Snauling	(3–4)				
		clear annotation and detail		(5–6)				
		Suitability Simplistic designs showing outlines only Rather more detail, sensible solutions that could work Accurate solutions, good fitness for purpose, construction detail		(0–2) (3–4) (5–6)	[12]			
	(d)	Evaluation of each of the ideas. At least 3 evaluations up to 2 marks ex Selection and justification. (1+1)	ach	(0 - 6) (2)	[8]			

Page 3	Mark Scheme	Syllabus	Pap	er
	Cambridge IGCSE – May/June 2015	0445	12	2
(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)	
	Dimensions 2 or 3 overall dimensions only – 1			
	Additional detail dimensions – 1		(2)	
	Construction details	_	(a. a.)	
	A simplistic approach showing little or no detail of construction to be use Most constructional detail may be obvious from overall views or	ed	(0–2)	
	with some annotation	حدام المحاما	(3–4)	
	All constructional detail will be clear with good annotation and additionancessary	ıı detaii dra	wings a (5–6)	
	noocooury		(0 0)	[12]
(f)	Suitable specific materials stated. (1+1)		(2)	
	Appropriate reasons for choice. (1+1)		(2)	[4]
(g)	Suitable method described.		(1)	
(0)	Good detailed description of: processes		(0-3)	
	tools.		(0–2)	[6]
			[Total	: 50]