CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International General Certificate of Secondary Education

MARK SCHEME for the May/June 2015 series

0445 DESIGN AND TECHNOLOGY

0445/13 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.

Cambridge is publishing the mark schemes for the May/June 2015 series for most Cambridge IGCSE[®], Cambridge International A and AS Level components and some Cambridge O Level components.



Pa	age 2		/llabus	Pap	er			
			0445	13	\$			
1	(a)	Accept any four additional suitable points – easy to move around, easy to dishes do not fall out, protects food, additional items/use, fits in with decor/	room, et		, [4]			
	(b)	Accept drawings of any two methods of securing dishes – rails, stand up e surface, recess in surface, etc.		ction (2×2)	[4]			
2	(a)	Accept any four additional suitable points – attractive colour/shape, has im lightweight/easy to carry, easy to access items, items held separately, eating platform/surface, recyclable materials, etc.	ng	(1×4)	[4]			
	(b)	Accept drawings of any two carrying handles – string/rope/tape, cardboard slots, extra layers, etc.	•	ut out (2×2)	[4]			
3	(a)	Accept any four additional suitable points – adjustable to height of person/s different sizes and shapes of book, easy to store, simple to operate, 'kitche	en' proof,		[4]			
	(b)	Accept drawings of any two protection methods – integral splatter guard, fr guard fixed to wall/cupboard, sliding cover, etc.		ling gu (2×2)	uard, [4]			
Qu	estic	ons 1, 2 and 3						
	(c)	(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 – sha	ading	(0–2)				
		/colour/annotation etc. High quality drawings using a wide range of techniques With clear annotation and detail	·	(3–4)				
		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 each (Selection and justification. (1+1)	(0–6)	(2)	[8]			

Page 3	Mark Scheme	Syllabus	Рар	er
	Cambridge IGCSE – May/June 2015	0445	13	}
	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 a		(2–3)	
	Dimensions 2 or 3 overall dimensions only – 1 Additional detail dimensions – 1		(2)	
	Construction details A simplistic approach showing little or no detail of construction to be use Most constructional detail may be obvious from overall views	ed	(0–2)	
	or with some annotation All constructional detail will be clear with good		(3–4)	
	annotation and additional detail drawings as necessary		(5–6)	[12]
	Suitable specific materials stated. (1+1) Appropriate reasons for choice. (1+1)		(2) (2)	[4]
	Suitable method described. Good detailed description of: processes tools.		(1) (0–3) (0–2)	[6]
			[Total	: 50]