## **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<sup>®</sup>, Cambridge International A and AS Level components and some Cambridge O Level components.



Pa	age 2		Syllabus	Pap				
		Cambridge IGCSE – May/June 2015	0445	13	3			
1	(a)	Accept any <b>four</b> additional suitable points – easy to move around, easy dishes do not fall out, protects food, additional items/use, fits in with dec	cor/room, e		, [4]			
	(b)	Accept drawings of any <b>two</b> methods of securing dishes – rails, stand u surface, recess in surface, etc.		iction (2×2)	[4]			
2	(a)	Accept any <b>four</b> additional suitable points – attractive colour/shape, has lightweight/easy to carry, easy to access items, items held separately, eplatform/surface, recyclable materials, etc.	ating	(1×4)	[4]			
	(b)	Accept drawings of any <b>two</b> carrying handles – string/rope/tape, cardbo slots, extra layers, etc.	• •	ut out (2×2)	[4]			
3	(a)	Accept any <b>four</b> additional suitable points – adjustable to height of persidifferent sizes and shapes of book, easy to store, simple to operate, 'kitching the store of the s	chen' proof		[4]			
	(b)	Accept drawings of any <b>two</b> protection methods – integral splatter guard guard fixed to wall/cupboard, sliding cover, etc.		ding gu (2×2)	uard, <b>[4]</b>			
Questions 1, 2 and 3								
	(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 technique Clear drawings displaying a good standard and a range of techniques –		(0–2)				
		/colour/annotation etc.	_	(3–4)				
		High quality drawings using a wide range of techniques With 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 ea Selection and justification. (1+1)	ach(0–6)	(2)	[8]			

	Cambridge IGCSE – May/June 2015	0445	13	}
(e)	Quality of drawing Poor line quality, proportions, little detail Good line work, use of colour, proportions, some detail High standard throughout with a range of techniques that show clearly a	all detail	(1) (2–3) (4)	
	<b>Dimensions</b> 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 used Most constructional detail may be obvious from overall views		(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]
(f)	Suitable <b>specific</b> materials stated. (1+1) Appropriate reasons for choice. (1+1)		(2) (2)	[4]
(g)	Suitable method described.  Good detailed description of: processes tools.		(1) (0-3) (0-2)	[6]
			[Total	: 50]

Syllabus

Paper

Mark Scheme

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