## **CAMBRIDGE INTERNATIONAL EXAMINATIONS**

**Cambridge International General Certificate of Secondary Education** 

## MARK SCHEME for the October/November 2014 series

## 0445 DESIGN AND TECHNOLOGY

**0445/11** 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 2014 series for most Cambridge IGCSE<sup>®</sup>, Cambridge International A and AS Level components and some Cambridge O Level components.



1	age 2		Syllabus	Рар				
		Cambridge IGCSE – October/November 2014	0445	11	1			
1	(a)	Accept any <b>four</b> additional suitable points – resists water, hygienic, eas matches bathroom style, sections labelled, acts as seat, etc.	-	r item 1 × 4	s, [4]			
	(b)	Accept drawings of any <b>two</b> suitable ways – timber, halving, through/sto dowel, fabric, shelves, etc.		ing, bo				
2	(a)	Accept any <b>four</b> additional suitable points – appealing to customers, ref colourful, lightweight/easy to carry, folds up for storage, etc.		lry', st 1 × 4	able, [4]			
	(b)	Accept drawings of any <b>two</b> flexible joints – scored, tape, rings, comb, cetc.	•	hinge 2 × 2	e, [4]			
3	(a)	Accept any <b>four</b> additional suitable points – does not dirty clothes, weat to operate, cannot catch fingers in mechanism, easy to reach, etc.	•	asy/si 1 × 4	mple [4]			
	(b)	Accept any <b>two</b> mechanisms – pulley system, gear train, chain and sprowinding drum, etc.		et, 2 × 2	[4]			
Questions 1, 2 and 3								
	(c)	Any suitable ideas. At least <b>three different</b> ideas for maximum marks. I	Pro rata if fe	ewer.				
		Communication Simple drawings displaying a low standard or limited range of technique 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						
		Suitability Simplistic designs showing outlines only Rather more detail, sensible solutions that could work Accurate solutions, good fitness for purpose, detailed construction		5–6 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)	ch	0–6 2	[8]			

**Mark Scheme** 

**Syllabus** 

**Paper** 

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	Cambridge IGCSE – October/November 2014	0445	11	1
(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	
	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 or with so		0–2 tion 3–4	
	All constructional detail will be clear with good annotation and additiona necessary	l detail drav	_	as [12]
(f)	Suitable <b>specific</b> materials stated. (1 + 1) Appropriate reasons for choice (1 + 1)		2 2	[4]
(g)	Suitable method stated Good detailed description of: processes tools		1 3 2	[6]
				[50]

Syllabus

Paper

Mark Scheme

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