CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2013 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 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



r age z		ICCSE October/Nevember 2012	OMAE	14				
		IGCSE – October/November 2013	0445	11				
(a)	Accept any four additional suitable points – easy to load/unload, well balanced, hygienic easy to clean, ergonomic for child, colourful, safe for child, etc. [1 × 4] [4]							
(b)	•	drawings of any two types of carcase construction -velled, doors/flaps, etc.	- dovetail, rebate,	screwed/nailed [2 × 2] [4]				
(c)	Any suitable ideas. At least three different ideas for maximum marks. Pro rata if fewer.							
	Clear dr	lrawings displaying a low standard or limited range of awings displaying a good standard and a range	of techniques -	[3–4]				
	Rather n	ity c designs showing outlines only nore detail, sensible solutions that could work e solutions, good fitness for purpose, detailed constr	uction	[0-2] [3-4] [5-6]				
(d)		on of each of the ideas. At least 3 evaluations up to and justification.	2 marks each	[0–6] [1 + 1] [2] [8]				
(e)	Poor line Good line	of drawing e quality, proportions, little detail e work, use of colour, proportions, some detail ndard throughout with a range of techniques that sh	ow clearly all deta	[1] [2–3] ail. [4]				
		ions verall dimensions only (1) al detail dimensions (2)		[2]				
	A simplis Most cor	ction details stic approach showing little or no detail of constructionstructional detail may be obvious from overall views tructional detail will be clear with good annotation ary.	s or with some an					
(f)		specific materials stated. ate reasons for choice.		[1 + 1] [2] [1 + 1] [2] [4]				
(g)		method stated. tailed description of: processes tools.		[1] [3] [2] [6]				
				[50]				

Mark Scheme

Syllabus

Paper

Page 2

	Page 3		Mark Scheme	Paper	
			IGCSE – October/November 2013	0445	11
2	(a)	Accept a corners,	attention, simple	shape rounded [1 × 4] [4]	
	(b)	Accept a etc.	rcated rivets, plas	tic/wooden rod, [2 × 2] [4]	
	(c)	Any suita	a if fewer.		
		Clear dr annotation	of techniques of techniques – clear annotation a	[3–4]	
		Rather n	ty c designs showing outlines only nore detail, sensible solutions that could work e solutions, good fitness for purpose, detailed constru	uction	[0-2] [3–4] [5–6] [12]
	(d)		on of each of the ideas. At least 3 evaluations up to and justification.	2 marks each.	[0–6] [1 + 1] [2] [8]
	(e)	Poor line Good line	of drawing e quality, proportions, little detail e work, use of colour, proportions, some detail endard throughout with a range of techniques that sho	ow clearly all deta	[1] [2–3] iil [4]
			ons erall dimensions only (1) al detail dimensions (2)		[2]
		A simplis Most cor	ction details stic approach showing little or no detail of construction structional detail may be obvious from overall views ructional detail will be clear with good annotation a ry.	or with some an	
	(f)		specific materials stated. ate reasons for choice.		[1 + 1] [2] [1 + 1] [2] [4]
	(g)		method stated. tailed description of: processes tools.		[1] [3] [2] [6]
					[50]

P	Page 4		Mark Scheme Syllabus				us	Paper				
				IGCSE – October/November 2013 0445					11			
3 (а		Accept any four additional suitable points – simple to fit, safe shape, hygienic rugged design, fits hand, fits range of taps, etc.							/gienic, s	-	ce, [4]	
(b		Accept any two methods – increased leverage, larger gripping surface, bet mechanisms, etc.							e, bette		rip, [4]	
(с	;) A	Any suitable ideas. At least three different ideas for maximum marks. Pro rata if fewer.									if fewer.	
	S C a	Communication Simple drawings displaying a low standard or limited range of techniques Clear drawings displaying a good standard and a range of techniques – shadin annotation etc. High quality drawings using a wide range of techniques with clear annotation and def Suitability Simplistic designs showing outlines only Rather more detail, sensible solutions that could work Accurate solutions, good fitness for purpose, detailed construction							hading/colo			
	S R									[3- [5-	_	
(d	•			h of the id tification.	deas. At	least 3 e	evaluation	s up to	2 marks ea	ach	[1 + 1]	-6] [2] [8]
(e	P G	oor line Good line	e work, u	proportionse of cold	our, prop	ortions,	some deta		ow clearly a	all detail	[2-	[1] -3] [4]
		Dimensions 2 or 3 overall dimensions only (1) Additional detail dimensions (2)							İ	[2]		
	A M A	simplis lost con	nstructior ructional	ach shov al detail ı	may be o	bvious f	rom overa	ıll views	on to be use or with so and addition	me anno	otation. [3 – il drawings [5 –	-
(f)	•		•	materials ons for ch							[1 + 1]	[2] [2] [4]
(g			method : tailed de	stated. scription	of: proce tools.	sses					ĺ	[1] [3] [2] [6]

[50]