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.



Page 2		Mark Scheme	Syllabus	Paper
		IGCSE – October/November 2013	0445	11
l (a)	Accept any four additional suitable points – easy to load/unload, well balanced, hygic easy to clean, ergonomic for child, colourful, safe for child, etc. [1 × 4]			
(b)	•	Irawings 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.			
	Communication Simple drawings displaying a low standard or limited range of techniques [0-Clear drawings displaying a good standard and a range of techniques – shading/colo annotation etc. [3-High quality drawings using a wide range of techniques with clear annotation and detail [5-			
	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 lin	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]
		i ons verall dimensions only (1) al detail dimensions (2)		[2]
	A simplis Most cor	ction details stic approach showing little or no detail of constructionstructionstructional 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]

	Page 3		Mark Scheme	Syllabus	Paper
			IGCSE – October/November 2013	0445	11
2	(a)	Accept a corners,	attention, simple	shape rounded [1 × 4] [4]	
	(b)	Accept a etc.	ny two methods of attachment – plastic pegs, bifur	cated rivets, plas	tic/wooden rod, [2 × 2] [4]
	(c)	Any suita	a if fewer.		
		annotation	[0–2] shading/colour/ [3–4] and detail [5–6]		
		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]

	Page 4		Mark Scheme Syllabus		Paper	
			IGCSE – October/November 2013	0445	11	
3	(a)		any four additional suitable points – simple to fit, safe design, fits hand, fits range of taps, etc.	e shape, hygienic	, stays in place, [1 × 4] [4]	
	(b)	•	any two methods – increased leverage, larger grippisms, etc.	ping surface, bett	er shaped grip, [2 × 2] [4]	
(c) Any suitable ideas. At least three different ideas for ma				m marks. Pro rat	a if fewer.	
		Communication Simple drawings displaying a low standard or limited range of techniques [0–2] 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 and detail [5–6]				
		Rather m	ity 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 a nand 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 sho	ow clearly all deta	[1] [2–3] iil [4]	
			ions 2 or 3 overall dimensions only (1) al detail dimensions (2)		[2]	
Most constructional		A simplis Most cor All const	stic approach showing little or no detail of construction structional detail may be obvious from overall views tructional detail will be clear with good annotation a	or with some and		
	(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]