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0445 DESIGN AND TECHNOLOGY

0445/12

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.

P	age 2	Mark Scheme Sylla	abus	N.		
		IGCSE – October/November 2013 04	45 23			
(a		ot any four additional suitable points – stable in use, non flamr ax, light at correct height, easy to replace candles, etc.	abus 45 nable materials 1 *	mbrie		
(b) Accep clips,	ot drawings of any two suitable holding methods – holes, tu etc.	bes, pins/dowels, 2 × 2			
(c)) Any s	uitable ideas. At least three different ideas for maximum mark	s. Pro rata if fewer			
	Simpl	nunication e drawings displaying a low standard or limited range of technic drawings displaying a good standard and a range of technique		2		
	shadi High o	shading/colour/annotation etc. High quality drawings using a wide range of techniques with clear				
		ation and detail	5–6	5		
		DINY istic designs showing outlines only or more detail, sensible solutions that could work	0–2 3–4			
		ate solutions, good fitness for purpose, detailed construction		6 [12]		
(d		ation of each of the ideas. At least 3 evaluations up to 2 marks tion and justification. (1 + 1)	each 0–6 2			
(e	Poor Good	ty of drawing ine quality, proportions, little detail line work, use of colour, proportions, some detail standard throughout with a range of techniques that show clear	2–3 ly all detail	3		
	Dime	nsions 2 or 3 overall dimensions only (1) Additional detail dimensions (2)	2	2		
	A sim	truction details plistic approach showing little or no detail of construction to be	used 0–2	2		
	some	constructional detail may be obvious from overall views or with annotation nstructional detail will be clear with good annotation and additic	onal	Ļ		
		drawings as necessary	5–6	6 [12]		
(f)		ble specific materials stated (1 + 1) priate reasons for choice. (1 + 1)				
(g		ble method stated. detailed description of: processes	ź	3		
		tools.				
				[20		

[50]

Pa	ge 3	Ма	ark Schen	ne	Syllabı	is ·		C C
		IGCSE – Oct	ober/Nov	ember 2013	0445		Da	
(a)		any four additional s langerous features, e				ight colou	sapa Can 1 ×	mbrie
(b)	Accept any two hinging methods – scored card, pressed hinge, planted hinges, cord, etc.						tape, 2 × 2	rings [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 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					0–2		
						3–4		
	and detail						5–6	
	Suitability Simplistic designs showing outlines only Rather more detail, sensible solutions that could work Accurate solutions, good fitness for purpose, detailed construction						0–2 3–4 5–6	[12
(d)		on of each of the idea and justification.(1		t 3 evaluations up t	o 2 marks ea	ch	0–6 2	[8]
(e)	Poor line Good line	of drawing quality, proportions, e work, use of colour, ndard throughout with	, proportio	ns, some detail	show clearly a	all detail	1 2–3 4	
	Dimensi	ons 2 or 3 overall d Additional deta					2	
	Construction details A simplistic approach showing little or no detail of construction to be used						0–2	
	Most constructional detail may be obvious from overall views or with some annotation All constructional detail will be clear with good annotation and additional					3–4		
	detail drawings as necessary						5–6	[12
(f)		specific materials sta ate reasons for choic		+ 1) + 1)			2 2	[4
(g)		method stated.					1	
	Good detailed description of: processes tools.					3 2	[6	
								[50]

Pa	age 4	Mark Scheme Syllabus	3				
		IGCSE – October/November 2013 0445	Da				
(a)	•	any four additional suitable points – weather proof, visual impact, w s, stable in use, safe power supply, safe for pets/animals, etc.	Panaca rate 1 x	nbrite. [4]			
(b)	Accept a	any two types of movement – wheels, paddles, screw, jets, etc.	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 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					
	shading						
		ic designs showing outlines only	0-2				
		nore detail, sensible solutions that could work e solutions, good fitness for purpose, detailed construction	3–4 5–6	[12			
(d)		on of each of the ideas. At least 3 evaluations up to 2 marks each n and justification. (1 + 1)	0–6 2	[8]			
(e)	Poor line Good lin	of drawing e quality, proportions, little detail ne work, use of colour, proportions, some detail andard throughout with a range of techniques that show clearly all detail	1 2–3 4				
	Dimens	ions 2 or 3 overall dimensions only (1) Additional detail dimensions (2)	2				
	A simpli	Construction details A simplistic approach showing little or no detail of construction to be used					
	some ar	nstructional detail may be obvious from overall views or with nnotation tructional detail will be clear with good annotation and additional	3–4				
		awings as necessary	5–6	[12]			
(f)		e specific materials stated. (1 + 1) iate reasons for choice. (1 + 1)	2 2	[4]			
(g)		Suitable method stated.					
	G000 de	Good detailed description of: processes tools.					
				[50			