MARK SCHEME for the October/November 2008 question paper

0445 DESIGN AND TECHNOLOGY

0445/01

Paper 1 (Common Core), 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.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

• CIE will not enter into discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the October/November 2008 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



UNIVERSITY of CAMBRIDGE International Examinations

Page 2		ge 2	Mark Scheme	Syllabus	Paper					
			IGCSE – October/November 2008	01						
1	(a)	Accept a securely,	1 × 4	[4]						
	(b)		Accept drawings of any two fittings – spring clips, drawers, rubber straps, lowels, cup hooks, 'slot' fittings, etc.							
	(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 dra	rawings displaying a good standard and a range of techniques – g/colour/annotation, etc.							
		high quality drawings using a wide range of techniques with clear annotation and detail								
		rather mo	ty c designs showing outlines only ore detail, sensible solutions that could work 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. (1 + 1)	2 marks each.	0–6 2	[8]				
	(e)	poor line good line high stan detail	of drawing quality, proportions, little detail work, use of colour, proportions, some detail idard throughout with a range of techniques that sho	ow clearly all	1 2–3 4					
		 Dimensions 2 or 3 overall dimensions only – 1 additional detail dimensions – 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 or with some 			2					
				0–2						
		annotation all constructional detail will be clear with good annotation and additional detail drawings as necessary			3–4 5–6	[12]				
		urawings	as necessary		5-0	[12]				
	(f)		specific materials stated. At least two ate reasons for choice. At least two		2 2	[4]				
	(g)	Suitable Detailed and tool s	1 3 2	[6]						

Page 3		e 3	Mark Scheme Syllabus						Paper					
		IGCSE – October/November 2008 0445						01						
2 (a	a)		t any four suitable points – colourful, number 5, movement when d, appeals to young child, does not frighten, etc.						1 × 4	[4]				
(k	b)	•	ccept drawings of any two card friendly mechanisms – cams, levers, anks, rubber bands, discs, etc.							2 × 2	[4]			
(0	 Any suitable ideas. At least three different ideas for maximum marks. Pro rata if fewer. Communication 										ks. Pro			
		simple drawings displaying a low standard or limited range of techniques clear drawings displaying a good standard and a range of techniques –								0–2				
		shading/colour/annotation, etc. high quality drawings using a wide range of techniques with clear annotation						3–4						
		and detail 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]				
(0	d)	Evaluation of each of the ideas. At least 3 evaluations up to 2 marks eacher Selection and justification. (1 + 1)						s each.	0–6 2	[8]				
(e	e)	Quality					41						4	
		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 all						1 2–3						
		detail Dimensions 2 or 3 overall dimensions only – 1							4					
			additional detail dimensions – 2					2						
		a simplistic approach showing little or no detail of construction to be used most constructional detail may be obvious from overall views or with some							0–2					
	annotat			nd additional	3–4									
		detail drawings as necessary								5–6	[12]			
(f	F)	Any two colours,				-	n – colc	oured fi	lm, colo	ured c	ard, lay	on	2 × 2	[4]
(g	g)	Detailed	Suitable method stated. Detailed description of process, including: processes and tools .					1 3 2	[6]					
									[Total: 50]					

Page 4		Mark Scheme Syllabus						Syllabus	Pape	ər	
			IGCSE – October/November 2008 0445						01		
3	(a)		t any four suitable points – attracts attention, easy to clean, stable in o injury to users, easy to empty, etc.						1 × 4	[4]	
	(b)	•	ccept any two suitable methods – light sensor, pressure pad, trap door, ver movement, flap, 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 –								0–2	
		shading/colour/annotation, etc. high quality drawings using a wide range of techniques with clear annotation and detail Suitability							3–4		
										5–6	
	simplistic designs showing outlines only rather more detail, sensible solutions that could work accurate solutions, good fitness for purpose, detailed co							ruction	0–2 3–4 5–6	[12]	
	(d)		uation of each of the ideas. At least 3 evaluations up to 2 marks each oction and justification. (1 + 1)				0–6 2	[8]			
	(e)	Quality									
		poor line quality, proportions, little detail good line work, use of colour, proportions, some					1 2–3				
	detail		andard throughout with a range of techniques that show clearly all						4		
		 Dimensions 2 or 3 overall dimensions only – 1 additional detail dimensions – 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 or with some 						2			
									0–2		
		annotation all constructional detail will be clear with good annotation and additional						3–4			
				s as nece			0			5–6	[12]
	(f)			ific mater easons for						2 2	[4]
	(g)		e method stated.				1 3				
		Detailed description of process, including: processes and tools .						3 2	[6]		
										[Tota	al: 50]