

## MARK SCHEME for the May/June 2008 question paper

## 0445 DESIGN AND TECHNOLOGY

0445/01

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.

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 May/June 2008 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

	Mark Scheme	Syllabus	a er		
	IGCSE – May/June 2008	0445	No.		
	any <b>four</b> suitable points – tools accessible, li able to carry, easy to store, etc. No repeats of	ghtweight, easy to move, question.	Anna Cannun 2x2 [4		
· / /	drawings of any <b>two</b> appropriate handles fixtures, etc.	– holes, slots, additions,	2x2 [4		
if fewer.	able ideas. At least <b>three different</b> ideas for r	maximum marks. Pro rata			
Simple of	drawings displaying a low standard or limited ra		0–2		
	Irawings displaying a good standard and a range of techniques – ading/colour/annotation etc.		3–4		
	ality drawings using a wide range of techniq detail	ues with clear annotation	5–6		
Suitabil	ity				
	ic designs showing outlines only nore detail, sensible solutions that could work		0–2 3–4		
	e solutions, good fitness for purpose, detailed	construction	5–6 [12		
	on of each of the ideas. At least 3 evaluations n and justification. (1+1)	up to 2 marks each	0–6 2 [٤		
Good lin High sta	of drawing e quality, proportions, little detail le work, use of colour, proportions, some detai ndard throughout with a range of techniques th ions 2 or 3 overall dimensions only – 1 Additional detail dimensions – 2		1 2–3 4 2		
	iction details		0–2		
Most co	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				
	notation structional detail will be clear with good annotation and	ation and additional detail	3–4		
	drawings as necessary				
<b>、</b> /	materials stated. iate reasons for choice.		2 2 [4		
	Suitable method stated.				
Detailed	Detailed description of process, including: <b>processes</b> and <b>tools</b> .				
	S.		2 [6		

IGCSE – May/June 20080445Accept any four suitable points – stable when opened, easy to assemble hygienic, easy to transport, attract attention, etc. No repeats of question.	hacan			
Accept any <b>four</b> suitable points – stable when opened, easy to assemble hygienic, easy to transport, attract attention, etc. No repeats of question.	Can .			
	101			
Accept drawings of any <b>two</b> flexible methods – scored card, tape, plastic hinges, slots/tabs, etc.	PathaCambur 2x2 [4			
Any suitable ideas. At least <b>three different</b> ideas for maximum marks. Pro rata if fewer. <b>Communication</b>	l			
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 Simplicitie decigns showing outlines only	5–6 0–2			
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			
Evaluation of each of the ideas. At least 3 evaluations up to 2 marks each Selection and justification. (1+1)	0–6 2 [8			
Quality of drawing				
Poor line quality, proportions, little detail	1			
Good line work, use of colour, proportions, some detail High standard throughout with a range of techniques that show clearly all detail <b>Dimensions</b> 2 or 3 overall dimensions only – 1	2–3 4			
Additional detail dimensions – 2 Construction details	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 e 3–4			
annotation All constructional detail will be clear with good annotation and additional detail drawings as necessary				
นเฉพาเบร อร แอบอรอส y	5–6 [12			
Suitable materials stated. Appropriate reasons for choice.	2 2 [4			
Suitable method stated. Detailed description of process, including: <b>processes</b>	1 3			
and tools.	2 [6			
	[Total: 50			

	ge 4	M	ark Scheme	Syllabus	· ~ ~ ~	<u>r</u>
		IGCSE	– May/June 2008	0445	The second	
(a)			ints – lightweight, easy ect height, etc.  No rep	to erect, easy to trans eats of question.	port, 2x2	Ibrit
(b)	•	y <b>two</b> suitable tem ther, KD fittings, etc		– bolts/nuts, slot-in, scro	ews, 2x2	[4]
(c)	if fewer.		t <b>hree different</b> ideas fo	r maximum marks. Pro	rata	
	Simple dr	<b>Communication</b> 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.				
	shadi					
	High quality drawings using a wide range of techniques with clear annotation and detail Suitability					
	Simplistic Rather mo	designs showing or ore detail, sensible	utlines only solutions that could wo ess for purpose, detaile		0–2 3–4 5–6	
(d)		n of each of the idea and justification.(1	as. At least 3 evaluatio I+1)	ns up to 2 marks each	0–6 2	[8]
	<b>Quality o</b> Poor line	<b>f drawing</b> quality, proportions,	, little detail		1	
	Good line work, use of colour, proportions, some detail High standard throughout with a range of techniques that show clearly all detail <b>Dimensions</b> 2 or 3 overall dimensions only – 1					
		Additional deta	dimensions only – 1 ail dimensions – 2		2	
	A simplist	<b>Construction details</b> 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				
	anno	ation		otation and additional d	3–4	
		ngs as necessary	te ologi witi good dilli		5–6	[12]
(f)		naterials stated.			2	<b>F</b> 41
<i>.</i> .		te reasons for choic	ce.		2	[4]
(g)	Suitable method stated. Detailed description of process, including: <b>processes</b>				1 3 2	
	and tools.					[6]