UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

## www.papacambridge.com MARK SCHEME for the May/June 2008 guestion 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.

Pa	ge 2	Mark Scheme	Syllabus	3. er	,
		IGCSE – May/June 2008	0445	Dec.	
a)		any <b>four</b> suitable points – tools accessible, lightwein ble to carry, easy to store, etc. No repeats of questi	ight, easy to move, on.	Papacan. 2x2	brio
(b)		drawings of any <b>two</b> appropriate handles – hole ixtures, etc.	es, slots, additions,	2x2	[4]
(c)	Any suita if fewer. <b>Commu</b>	able ideas. At least <b>three different</b> ideas for maximi	um marks.  Pro rata		
	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				
	Suitability				
	•	Simplistic designs showing outlines only Rather more detail, sensible solutions that could work			
	Accurate solutions, good fitness for purpose, detailed construction				[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	<b>Quality of drawing</b> 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 detail				
	<b>Dimensions</b> 2 or 3 overall dimensions only – 1 Additional detail dimensions – 2				
	Constru	ction details			
	A simplis	a simplistic approach showing little or no detail of construction to be used fost constructional detail may be obvious from overall views or with some annotation			
	anno				
	All constructional detail will be clear with good annotation and additional detail drawings as necessary				
(f)	Suitable	materials stated.		2	
(f)		ate reasons for choice.		2 2	[4]
(g)	Suitable method stated.		1		
	Detailed	description of process, including: processes		3 2	[6]
	and <b>tool</b>	5.			[6]
				[Total:	50}

Page 3	3 Mark Sc	heme	Syllabus	a er	
	IGCSE – May	/June 2008	0445	Da	
	cept any <b>four</b> suitable points - gienic, easy to transport, attract a			an	bilo
	cept drawings of any <b>two</b> flex ges, slots/tabs, etc.	ible methods – scored	card, tape, plastic	2x2	[4]
if fe	y suitable ideas. At least <b>three d</b> ewer. mmunication	l <b>ifferent</b> ideas for maxim	num marks.  Pro rata		
Sir	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			3–4	
	and detail Suitability			5–6	
Sir	nplistic designs showing outlines ther more detail, sensible solution	-		0–2 3–4	
	curate solutions, good fitness for		uction	5–6	[12]
	aluation of each of the ideas. At lection and justification. (1+1)	least 3 evaluations up to	2 marks each	0–6 2	[8]
(e) Qu	ality of drawing				
	or line quality, proportions, little d			1	
Hig	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 dime	-		2	
As	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		
	annotation All constructional detail will be clear with good annotation and additional detail		3–4		
	drawings as necessary			5–6	[12]
• •	itable materials stated.			2	
Ар	propriate reasons for choice.			2	[4]
	itable method stated. tailed description of process, incl	uding: processes		1 3	
	d <b>tools</b> .	uuniy. <b>pivesses</b>		2	[6]
an				-	[-]

Page 4	Mark Scheme	Syllabus	a. er	•
	IGCSE – May/June 2008	0445	Da	
	any <b>four</b> suitable points – lightweight, easy to erect damage clothes, correct height, etc. No repeats of the second sec	ct, easy to transport, question.	Dana Can. 2x2	10HO
	any <b>two</b> suitable temporary joining methods – bolts/ jether, KD fittings, etc.	/nuts, slot-in, screws,	2x2	[4]
if fewer.				
Simple of	<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 –			
sha High qu	shading/colour/annotation etc. High quality drawings using a wide range of techniques with clear annotation and detail <b>Suitability</b> Simplistic designs showing outlines only			
Suitabil				
Rather r	Rather more detail, sensible solutions that could work Accurate solutions, good fitness for purpose, detailed construction			[12]
• •	on of each of the ideas. At least 3 evaluations up to n and justification. (1+1)	o 2 marks each	0–6 2	[8]
(e) Quality	<b>of drawing</b> e quality, proportions, little detail		1	
Good lir High sta	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 detail dimensions – 2 <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 annotation			
Most co				
All cons	All constructional detail will be clear with good annotation and additional detail drawings as necessary		3–4 5–6	[12]
<b>`</b>	materials stated.		2 2	Г <i>4</i> 1
	iate reasons for choice.			[4]
	method stated. description of process, including: <b>processes</b>		1 3 2	[6]
	J.		2	[v]