UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

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.



	Page 2	Mark Scheme	Syllabus	Paper	
		IGCSE – May/June 2008	0445	01	
(;	,	any four suitable points – tools accessible, lightwenth ble to carry, easy to store, etc. No repeats of quest		1x4	[4
(I		drawings of any two appropriate handles – hol ixtures, etc.	es, slots, additions,	2x2	[4
(0	c) Any suita if fewer. Commu	able ideas. At least three different ideas for maxim	num marks. Pro rata		
	Simple d	lrawings displaying a low standard or limited range rawings displaying a good standard and a rang	•	0–2	
	shad	ding/colour/annotation etc. ality drawings using a wide range of techniques v	,	3–4	
	and	detail	viti oleai aimotation	5–6	
	Suitabili	ty		0.0	

	Clear drawings displaying a good standard and a range of techniques – shading/colour/annotation etc.	3–4	
	High quality drawings using a wide range of techniques with clear annotation 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)	Evaluation of each of the ideas. At least 3 evaluations up to 2 marks each Selection and justification. (1+1)	0–6 2	[8]
(e)	Quality of drawing 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 Dimensions 2 or 3 overall dimensions only – 1 Additional detail dimensions – 2	1 2–3 4	
	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 annotation All constructional detail will be clear with good annotation and additional detail drawings as necessary	0–2 3–4 5–6	[12]
(f)	Suitable materials stated. Appropriate reasons for choice.	2 2	[4]

3 2 [6]

[Total: 50}

1

(g) Suitable method stated.

and tools.

Detailed description of process, including: processes

Page 3	Mark Scheme	Syllabus	Paper
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(a)	Accept any four suitable points – stable when opened, easy to assemble, hygienic, easy to transport, attract attention, etc. No repeats of question.	1x4	[4]
(b)	Accept drawings of any two flexible methods – scored card, tape, plastic hinges, slots/tabs, etc.	2x2	[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 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 0-2 3-4 5-6	[12]
(d)	Evaluation of each of the ideas. At least 3 evaluations up to 2 marks each Selection and justification. (1+1)	0–6 2	[8]
(e)	Quality of drawing 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 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 annotation All constructional detail will be clear with good annotation and additional detail drawings as necessary	1 2-3 4 2 0-2 3-4 5-6	[12]
(f)	Suitable materials stated. Appropriate reasons for choice.	2 2	[4]
(g)	Suitable method stated. Detailed description of process, including: processes and tools .	1 3 2	[6]
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Page 4	Mark Scheme	Syllabus	Paper
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(a)	Accept any four suitable points – lightweight, easy to erect, easy to transport, doesn't damage clothes, correct height, etc. No repeats of question.	1x4	[4]
(b)	Accept any two suitable temporary joining methods – bolts/nuts, slot-in, screws, push together, KD fittings, etc.	2x2	[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 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 0-2 3-4 5-6	[12]
(d)	Evaluation of each of the ideas. At least 3 evaluations up to 2 marks each Selection and justification. (1+1)	0–6 2	[8]
(e)	Quality of drawing 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 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 annotation All constructional detail will be clear with good annotation and additional detail drawings as necessary	1 2-3 4 2 0-2 3-4 5-6	[12]
(f)	Suitable materials stated. Appropriate reasons for choice.	2 2	[4]
(g)	Suitable method stated. Detailed description of process, including: processes and tools .	1 3 2	[6]
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