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## **UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS**

**International General Certificate of Secondary Education** 

## MARK SCHEME for the May/June 2010 question paper for the guidance of teachers

## 0445 DESIGN AND TECHNOLOGY

0445/11

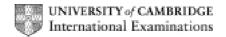
Paper 11 (Design), maximum raw mark 50

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 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 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



Page 2		Mark Scheme	: Teachers' version	Syllabus	Paper	•
		IGCSE –	May/June 2010	0445	11	
(a)	•	<u> </u>	uitable points – stable in use natches surroundings, etc.	e, easy to remove,	(1 × 4)	[4]
(b)	Accept drawings of any <b>two</b> protection methods – small contact surfaces, soft materials, rubber, foam, etc.			(2 × 2)	[4]	
(c)	Any suitable ideas. At least <b>three different</b> ideas for maximum marks. Pro rata if fewer. <b>Communication</b>					
	Simple drawings displaying a low standard or li					
	shading	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				(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)	
				truction	(3–4) (5–6)	[12]
(d)		ion of each of the ideason and justification. (1	s. At least 3 evaluations up t + 1)	o 2 marks each	(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) (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			(3–4)		
		structional detail will l rawings as necessary	be clear with good annotat	ion and additional	(5–6)	[12]
(f)		e <b>specific</b> materials sta riate reasons for choice			(2) (2)	[4]
(g)		e method stated. etailed description of:	processes tools.		(1) (3) (2)	[6]

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[Total: 50]

Page 3		Mark Scheme: Teachers' version Syllabus		Paper		
	<u>,</u>		lay/June 2010	0445	11	
(a)	Accept any <b>four</b> additional suitable points – attract attention, minimal use of materials, easy to pack, minimal storage space, high-tech appearance, easy to see MP3, cannot see other items, etc.				(1 × 4)	[4]
(b)	Accept any <b>two</b> access methods – tuck-in flaps, lift off top, adhesive surfaces, sliding sections, etc.				(2 × 2)	[4]
(c)	Any suitable ideas. At least <b>three different</b> ideas for maximum marks. Pro rata if fewer. <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.				(0–2) (3–4)	
	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			th clear annotation	(5–6)	
				(0–2) (3–4) (5–6)	[12]	
(d)		ion of each of the ideas. on and justification. (1 +	At least 3 evaluations up t	o 2 marks each	(0–6) (2)	[8]
(e)	Poor lin Good lii High st detail Dimens  Constr A simpl Most co annotat All cons	sions 2 or 3 overall d Additional deta uction details istic approach showing lonstructional detail may ion		tion to be used iews or with some	(1) (2–3) (4) (2) (0–2) (3–4) (5–6)	[12]
(f)		e <b>specific</b> materials stateriate reasons for choice.			(2) (2)	[4]
(g)			processes tools.		(1) (3) (2)	[6]

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[Total: 50]

Page 4		je 4	Mark Scheme: Teachers' version Syllabus IGCSE – May/June 2010 0445		Syllabus	Paper	
					11		
3	(a)	Accept any <b>four</b> additional suitable points – easy to operate, minimal space, stable in use, safe for child to use, appealing to child, etc.				(1 × 4)	[4]
	(b)	Accept any <b>two</b> types of battery – AAA, AA, C, D, PP3, disc type, etc.				(2 × 2)	[4]
	(c)	Any suitable ideas. At least <b>three different</b> ideas for maximum marks. Pro rata if fewer. <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.  High quality drawings using a wide range of techniques with clear annotation			(0–2)		
		and det Suitabi Simplist Rather	ail <b>lity</b> tic designs showing ou more detail, sensible s			(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)	Poor lin Good lin High st detail Dimens Constru A simpli Most co annotat All cons	andard throughout wind sions 2 or 3 overall Additional defuction details istic approach showing onstructional detail mation	proportions, some detail the a range of techniques that dimensions only – 1 tail dimensions – 2 g little or no detail of construct ay be obvious from overall versions of the construction	tion to be used iews or with some	(4) (2) (0–2) (3–4)	[12]
	(f)		e <b>specific</b> materials sta riate reasons for choice			(2) (2)	[4]
	(g)		e method stated. etailed description of:	processes tools.		(1) (3) (2)	[6]

[Total: 50]