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## UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

**International General Certificate of Secondary Education** 

## 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.

Page 2	Mark Scheme	Syllabus	er
	IGCSE – October/November 2008	0445	00-
			C

1

(a)	Accept any <b>four</b> suitable points – stable in use, easy to move, tools held securely, correct height, matches kept dry, etc.	1 × 4	Norida
(b)	Accept drawings of any <b>two</b> fittings – spring clips, drawers, rubber straps, dowels, cup hooks, 'slot' fittings, 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 –	0–2	
	shading/colour/annotation, etc.	3–4	
	high quality drawings using a wide range of techniques with clear annotation and detail  Suitability	5–6	
	simplistic designs showing outlines only rather more detail, sensible solutions that could work	0–2 3–4	
	accurate solutions, good fitness for purpose, detailed construction	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	1 2–3	
	high standard throughout with a range of techniques that show clearly all		
	detail <b>Dimensions</b> 2 or 3 overall dimensions only – 1	4	
	additional detail dimensions – 2  Construction details	2	
	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	
	all constructional detail will be clear with good annotation and additional detail drawings as necessary	5–6	[12]
	<b>3</b>		. ,
(f)	Suitable <b>specific</b> materials stated. At least <b>two</b> Appropriate reasons for choice. At least <b>two</b>	2 2	[4]
(g)	Suitable method stated. Detailed description of process, including: <b>processes</b> and <b>tools</b> .	1 3 2	[6]

[Total: 50]

			IGCSE – October/November 2008	0445	200	
2	(a)		ny <b>four</b> suitable points – colourful, number 5, move appeals to young child, does not frighten, etc.	ement when	1 × 4	Mbridge
	(b)	•	rawings of any <b>two</b> card friendly mechanisms – calubber bands, discs, etc.	ms, levers,	2 × 2	[4]
	(c)	Any suita rata if fev Commu		num marks. Pro		
		simple di	rawings displaying a low standard or limited range of the wings displaying a good standard and a range of the		0–2	
			colour/annotation, etc. lity drawings using a wide range of techniques with	cloar appotation	3–4	
		and deta	il .	i cicar armotation	5–6	
		Suitabili simplistic	<b>ty</b> : designs showing outlines only		0–2	
		rather mo	ore detail, sensible solutions that could work		3–4	
		accurate	solutions, good fitness for purpose, detailed constr	ruction	5–6	[12]
(	(d)	Evaluatio	on of each of the ideas. At least 3 evaluations up to	o 2 marks each.	0–6	
		Selection	and justification. (1 + 1)		2	[8]
	(e)		of drawing			
			quality, proportions, little detail		1	
			work, use of colour, proportions, some detail		2–3	
		high star detail	dard throughout with a range of techniques that sh	low clearly all	4	
		Dimensi	ons 2 or 3 overall dimensions only – 1		0	
		Constru	additional detail dimensions – 2  ction details		2	
		a simplis	tic approach showing little or no detail of constructi		0–2	
		most cor	structional detail may be obvious from overall view	s or with some	0.4	

all constructional detail will be clear with good annotation and additional

Any **two** suitable methods given – coloured film, coloured card, lay on

Detailed description of process, including: processes

**Mark Scheme** 

**Syllabus** 

Page 3

annotation

and tools.

(f)

(g)

detail drawings as necessary

colours, printed colour, etc.

Suitable method stated.

[Total: 50]

3-4

5–6

 $2 \times 2$ 

1

3

2

[12]

[4]

[6]

	raye 4		Wark Scheme		Syllabus	0.	Ē!
				IGCSE – October/November 2008	0445	200	
3	(a)	Accept any <b>four</b> suitable points – attracts attention, easy to clean, stable in use, no injury to users, easy to empty, etc.			abaca 1×4	Morido	
	(b)	-	-	<b>vo</b> suitable methods – light sensor, pressure pent, flap, etc.	oad, trap door,	2 × 2	[4]
	(c)	Any sui rata if fe	ewer.	deas. At least <b>three different</b> ideas for maxin	num marks. Pro		
		simple (	drawin	ngs displaying a low standard or limited range		0–2	
		shading	J/coloi	s displaying a good standard and a range of tur/annotation, etc.	·	3–4	
		and det	ail	rawings using a wide range of techniques with	n clear annotation	5–6	
		•	ic des	igns showing outlines only		0–2	
				etail, sensible solutions that could work tions, good fitness for purpose, detailed const	truction	3–4 5–6	[12]
	(d)			each of the ideas. At least 3 evaluations up t l justification. (1 + 1)	o 2 marks each	0–6 2	[8]
	(e)	Quality	of dr	awing			
		poor line quality, proportions, little detail good line work, use of colour, proportions, some detail			1 2–3		
		high sta detail	ındard	throughout with a range of techniques that sh	now clearly all	4	
		Dimens	sions	2 or 3 overall dimensions only – 1 additional detail dimensions – 2		2	
		_		5.5.55 dotail dillionono		_	

a simplistic approach showing little or no detail of construction to be used

all constructional detail will be clear with good annotation and additional

most constructional detail may be obvious from overall views or with some

**Mark Scheme** 

Syllabus

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**Construction details** 

detail drawings as necessary

Suitable method stated.

Suitable **specific** materials stated. At least **two** 

Detailed description of process, including: processes

Appropriate reasons for choice. At least two

annotation

and tools.

(f)

(g)

[6] [Total: 50]

0–2

5–6

2 2

1 3

2

[12]

[4]