

Many, papa Cambridge, com MARK SCHEME for the October/November 2007 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 2007 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

			1	www.xtra	apapers.com
P	age 2	2 Mark Scheme		s A	er
	-	IGCSE – October/November 2007	0445	No.	
1 (a)	lightweigh	ny four suitable points – stable in use, nt, easy to move, comfortable to hold, folded for etc. No repeats of question.	1 x 4	4	apapers.com
(b)	spring clip	rawings of any two temporary fixings – bolts, os, rubber straps, push-in clips, pins, etc. ly – 1 mark	2 x 2	4	173
(c)	maximum Commun	awings displaying a low standard or limited range	0–2		
		wings displaying a good standard and a range of estimation etc.	3–4		
	High qual	ity drawings using a wide range of techniques			
	with clear	annotation and detail	5–6		
	Rather m	y designs showing outlines only ore detail, sensible solutions that could work solutions, good fitness for purpose, detailed	0–2 3–4		
	constructi		5–6	12	
(d)	to 2 mark	n of each of the ideas. At least 3 evaluations up s each and justification. (1 + 1)	0–6 2	8	
(e)	Poor line Good line High stan	of drawing quality, proportions, little detail work, use of colour, proportions, some detail dard throughout with a range of techniques that arly all detail	1 2–3 4		
	Dimensio	ons 2 or 3 overall dimensions only – 1 Additional detail dimensions – 2	2		
	A simplist constructi Most cons views or v All constr	ction details tic approach showing little or no detail of ion to be used structional detail may be obvious from overall with some annotation uctional detail will be clear with good annotation ional detail drawings as necessary	0–2 3–4 5–6	12	
(f)	Suitable s	specific materials stated. Ite reasons for choice.	2 2	4	
(g)		method stated. description including: processes	1 3 2	6	50

					www.xt	rapapers.com
	Page 3		Mark Scheme	Syllabus	S	er
			IGCSE – October/November 2007	0445	10	20
2 (a	a)	Accept any four suitable points – easy to assemble, colourful, name of maker, good representation, etc. No repeats of question		1 x 4	4	Cannoridge.com
(1	b)	•	rawings of any two temporary joints–tabs/slots, stationary rivets, slotted corner pieces, etc.	2 x 2	4	773
(0	c)		able ideas. At least three different ideas for n marks. Pro rata if fewer. n ication			
		of technic	rawings displaying a low standard or limited range ques awings displaying a good standard and a range of	0–2		
			es – shading /colour/annotation etc lity drawings using a wide range of techniques	3–4		
		- ·	r annotation and detail	5–6		
		Rather m	c designs showing outlines only nore detail, sensible solutions that could work	0–2 3–4		
		construct	solutions, good fitness for purpose, detailed tion	5–6	12	
(0	d)	to 2 mark	on of each of the ideas. At least 3 evaluations up ks each n and justification. (1 + 1)	0–6 2	8	
(4	e)	Poor line Good line High star	of drawing quality, proportions, little detail work, use of colour, proportions, some detail ndard throughout with a range of techniques that arly all detail	1 2–3 4		
		Dimensi	ons 2 or 3 overall dimensions only – 1 Additional detail dimensions – 2	2		
		A simplis construct	ction details tic approach showing little or no detail of tion to be used	0–2		
			structional detail may be obvious from overall with some annotation	3–4		
			ructional detail will be clear with good annotation tional detail drawings as necessary	5–6	12	
(f	f)		able uses of computers – CAD/CAM, design and f development, setting out and printing of wording , etc.	2 x 2	4	
(9	g)	Good cor	ate box design. mmunication skills ate assembly and opening methods	2 2 2	6	50

Page 4	Mark Scheme	Syllabus	· · · · er	
	IGCSE – October/November 2007	0445	802	
control,	Accept any four suitable points – lightweight, easy to control, easy to clean, easy to assemble, private, etc. No repeats of question.		4	
electric/h	ny two suitable methods – overhead tank/bucket, and/wind-up pump (1 mark if pump only), pipe n stream, etc.	2 x 2	4	
maximu	able ideas. At least three different ideas for n marks. Pro rata if fewer. n ication			
Simple of techni	Simple drawings displaying a low standard or limited range of techniques			
techniqu High qua	awings displaying a good standard and a range of es – shading /colour/annotation etc Ility drawings using a wide range of techniques	3–4		
with clea	r annotation and detail	5–6		
Rather n	c designs showing outlines only nore detail, sensible solutions that could work	0–2 3–4		
Accurate construc	solutions, good fitness for purpose, detailed tion	5–6	12	
(d) Evaluation to 2 mar	on of each of the ideas. At least 3 evaluations up	0–6		
	and justification. (1 + 1)	2	8	
	of drawing quality, proportions, little detail	1		
Good lin High sta	Good line work, use of colour, proportions, some detail High standard throughout with a range of techniques that			
	arly all detail	4		
Dimens	ons 2 or 3 overall dimensions only – 1 Additional detail dimensions – 2	2		
A simpli	ction details stic approach showing little or no detail of	0–2		
Most co	construction to be used Most constructional detail may be obvious from overall views or with some annotation			
All const	ructional detail will be clear with good annotation tional detail drawings as necessary	3v4 5–6	12	
	specific materials stated. ate reasons for choice.	2 2	4	
g) Suitable	method stated.	1		
Detailed	description including: processes s	3	6 50	