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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.

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Pac	ge 2	Mark Scheme	Syllabus	.D	er
	j	IGCSE – May/June 2007	0445	800	
(a)	•	any four suitable points – stable in use, lightweight juick to position, hygienic, etc. (no repeats of question).	, easy to	(1x4)	anbi
(b)	•	drawings of any two suitable constructions – halving jo velding, bolts, rivets, etc.	ints, M&T	(2x2)	[4]
(c)	Pro rata Comm	table ideas. At least 3 different ideas for maximum ma a if fewer. unication			
	techniq	drawings displaying a low standard or limited ues	range of	0-2	
		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.			
	High q				
	Suitabi Simplis [:] Rather		tion	5-6 0-2 3-4 5-6	[12]
(d)	each	ion of each of the ideas. At least 3 evaluations up to on and justification. (1+1)	o 2 marks	0-6 2	[8]
(e)	Poor lin Good lii	of drawing e quality, proportions, little detail ne work, use of colour, proportions, some detail andard throughout with a range of techniques that sho il	ow clearly	1 2-3 4	
	Dimens	sions 2 or 3 overall dimensions only – 1 Additional detail dimensions – 2		2	
	A simp used	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 a	nnotation		3-4	
		structional detail will be clear with good annotation and rawings as necessary	additional	5-6	[12]
(f)		e specific materials stated. riate reasons for choice.		2 2	[4]
(g)		e method stated.		1	
	Good d	etailed description of process, including processes (3)	and tools		

Pa	ge 3	Mark Scheme	Syllabus	.D	er
	J	IGCSE – May/June 2007	0445	SD2	
(a)	•	any four suitable points – stable when opened, c, easy to carry, etc. (no repeats of question)	lightweight,	(1x4)	and
(b)	•	drawings of any two suitable handles – string/c card, reinforced card, etc.	cord, cutout,	(2x2)	[4]
(c)	Pro rata Comm	table ideas. At least 3 different ideas for maximum a if fewer. u nication drawings displaying a low standard or limited			
	techniq	ues	-	0-2	
		rawings displaying a good standard and a range of t //colour/annotation etc.	echniques –	3-4	
	High q	High quality drawings using a wide range of techniques with clear annotation and detail.			
	Suitabi Simplis [:] Rather		ruction	5-6 0-2 3-4 5-6	[12]
(d)	each	ion of each of the ideas. At least 3 evaluations up on and justification. (1+1)	o to 2 marks	0-6 2	[8]
(e)	Poor lin	of drawing e quality, proportions, little detail ne work, use of colour, proportions, some detail		1 2-3	
		andard throughout with a range of techniques that	show clearly	4	
	Dimens	sions 2 or 3 overall dimensions only – 1			
		Additional detail dimensions – 2 uction details		2	
	A simp used	istic approach showing little or no detail of constru-	uction to be	0-2	
	Most co	onstructional detail may be obvious from overall vi nnotation	iews or with	3-4	
	All cons	tructional detail will be clear with good annotation ar	nd additional		[40]
	detail d	rawings as necessary		5-6	[12]
(f)		e specific materials stated.		2 2	
	Approp	riate reasons for choice.		2	[4]
(g)	Approp	riate logo representing fast food		3	
(9)	Good c	ommunication skills – colour/shading		32	
	Approp	riate attachment method		1	[6]

		Mark Scheme	Syllabus	20	
Fat	ge 4	IGCSE – May/June 2007	Syllabus 0445	20	
(a)		any four suitable points – colourful, lightweight, sat o small parts, etc. (no repeats of question)	fe, easy to	(1x4)	amb
(b)		any four suitable methods – cams, cranks, gears, eak switch, clicking on gear, etc.	electronic,	(2x2)	[4]
(c)	Pro rata	able ideas. At least 3 different ideas for maximum m if fewer. I nication drawings displaying a low standard or limited			
	techniqu	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.			
	High qu				
	Suitabil Simplist Rather r		uction	5-6 0-2 3-4 5-6	[12]
(d)	each	on of each of the ideas. At least 3 evaluations up t n and justification. (1+1)	to 2 marks	0-6 2	[8]
(e)	Poor line Good lin	of drawing e quality, proportions, little detail le work, use of colour, proportions, some detail indard throughout with a range of techniques that sh	how clearly	1 2-3	
	all detai Dimens			4	
		Additional detail dimensions – 2		2	
		iction details stic approach showing little or no detail of construc	ction to be	0-2	
	Most co	nstructional detail may be obvious from overall vie	ews or with	3-4	
	All cons	tructional detail will be clear with good annotation and awings as necessary	d additional	5-6	[12]
		specific materials stated.		2	
(f)	Appropr	iate reasons for choice.		2	[4]
(f)					
(f) (g)	Suitable	method stated. etailed description of process, including processes (3	3) and tools	1	