## MARK SCHEME for the October/November 2007 question paper

## 0445 DESIGN AND TECHNOLOGY

0445/02

Paper 2 (Communication), 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.

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UNIVERSITY of CAMBRIDGE International Examinations

Page 2	Mark Scheme	Syllabus	Paper
	IGCSE – October/November 2007	0445	02
		Breakdown of marks	
Square tracto Semi-circular Diamond chir	engine100 x 40 rr cab 64 side roof of cab Ø64	1 1 2 2 2 1	[9]
A2 Accuracy and A N C E Height Spacing	l Proportion of:	1 1 1 1 1	[6]
	surement to correct scale long or 250 wide or 125 high	1	
	bol correct way round (1) lity drawing in projection (1)	2	[3]
Width 50 Height 2	(b) Length 100 Width 50 Height 25 Correct orientation		[4]
(c) Means o	f location (1)/able to stack (1) ketch and notes	1 2 1	[4]
Quanty 0		[Section A T	

Page 3		ge 3	Mark Scheme	Syllabus	Paper
			IGCSE – October/November 2007	0445	02
	<b>(a)</b> Semi elli			Breakdo of ma	
D4	(a)	Correct v	width	1	
		Correct l		1 2	
			ction (PR 1–2) y of outline	2 1	[5]
	(b)	) Cup and Straw:			
			and side angle (1)	2	
			right angle (1) + crank (1) neight of straw	2 1	[5]
	(c)		tagon: number of sides e of square (1)	1	
		Construc Correct I	ength of one constructed side y of outline	2 1 1	[5]
	(-1)			I	[3]
	(a)		ictogram: ) – arcs (1) construction (1) lines to R10 arcs 1+1	2	
			e rectangle filling end	1	[5]
	(e)	Direction	arrow: g point evident	1	
			neight projected	1	
		Overall h	neight correct	1	
		Angles c		1	[6]
		Arrow St	em correct thickness	1	[5]
					[Total: 25]

	Page 4		Mark Scheme	Syllabus	Paper
			IGCSE – October/November 2007	0445	02
		/		Breakdov of mar	
В2	(a)		es to hexagon	1	
			e projection	1	
		In line fro		1	
		Overall h	•	1	
		Angle of	top 45°	1	
		PLAN			
		•	n correct size to scale	1	
			prientation	1	
			awn for window	1 2	[40]
		Fin – nei	ight (1) width (1)	Z	[10]
(	(b)	) Development sides			
			s same width as given	1	
			rect position ( two sides to left )	1	
			g sides (1) angle correct (1)	2	
			rt sides (1) angle correct (1)	2	· 1
		One tall	rectangle 110 high	1	[7]
			o <b>ment top</b> gth from EV for hexagon lid	1	
			h plotted from Plan	1	
			ction of ellipse evident from Plan	1	
			rawn to reference points	1	[4]
		poo a			[.]
	(c)		of support		
			orrect size/proportion	1	
		Satisfies		1	
			s without glue	1	F 43
		Quality c	of sketch (0–1) no notes	1	[4]
			נז		