UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2012 question paper for the guidance of teachers

0445 DESIGN AND TECHNOLOGY

0445/22

Paper 2 (Graphic Products), 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.

• Cambridge will not enter into discussions or correspondence in connection with these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2012 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
	IGCSE – May/June 2012	0445
Cen Arcs	agon structional square 80 A/F (2) tre determined (1) drawn (1) drawn to arc/square plot (1)	Syllabus 7. Odd
(b) Sem Sem	ni-circle ni-circle to length of side (1)	[1]
` '	ngles triangles equilateral (2)	[2]
		[Total: 8]
Spa	ering uracy and proportion of: K (1) Y (1) cing (1) pht (1)	[4]
verti horiz	drilateral border cal (1) zontal (1) eat angle (1)	[3]
ТОР		[Total: 7]
Top recta Top recta O/H to to Taper sid Semi-cird Semi-cird	c rectangular base 50 x 80 (2) angle height 20 (1) angle in line with base (1) op of top rectangle 160 (1) des x2 (2) cle plots (1) cle constructed curve (1)	
Repeat o	curve to candidate thickness (1)	[10]
		[Total: 10]

Page 3		Mark Scheme: Teachers' version	Syllabus	
		IGCSE – May/June 2012	0445	
4 (a)	 Development Extra sides shown in correct position (7) 2 side flaps (1) Radius on side flap (1) Side flaps 45 long (1) 		Call	

(b) Arrow-tabs

Symmetrical (1)

Tuck-in flap 10 (1) Tuck-in flaps angled (1)

Stand off (1)

Neck (1)

Slot size to match neck (1)

Min 4 arrow-tabs shown (4x1)

(c) PYO added (1)

On correct face (1)

In correct orientation (1)

[3]

[2]

[8]

[12]

(d) Halving slots or similar 0-2 (repeat of arrow tab/slot =0) (2)

[Total: 25]

Page 4		Mark Scheme: Teachers' version	Syllabus	
		IGCSE – May/June 2012	0445	
B5 (a)	Circle (1) 6 divisior 2 x corre 3 x corre 4/5 corre Labels of		(7)	

(b) Bar chart

Three seasons correctly referenced (1) Rising chart (winter to summer) (1) To approximate scale (1)

[3]

(c) Three dimensional bar chart

3D (1)

Winter

Three blocks in 3D (2D = 0 marks) (up to 3 marks)

Correct value to scale (3x1 up to 3 marks)

Labels added and correct to value (1)

Summer

Three blocks in 3D (2D = 0 marks) (up to 3 marks) Correct value to scale (3x1 up to 3 marks) Labels added **and** correct to value (1)

[15]

[Total: 25]