

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
International General Certificate of Secondary Education

MARK SCHEME for the May/June 2009 question paper
for the guidance of teachers

0445 DESIGN AND TECHNOLOGY

0445/02

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.

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Page 2	Mark Scheme: Teachers' version	Syllabus	Paper
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A1 Headband

Width 2 × 1 (2)

On left of ellipse (1)

[3]

Ellipse

Major axis 160 (1)

Minor axis 120 (1)

Construction (all points plotted) (3)

(evident on half) (2)

(evident) (1)

Correct orientation (1)

[6]

[Total: 9]

A2 Accuracy and proportion of:

A (1)

M (1)

E (1)

S (1)

Spacing (1)

Height (1)

[6]

[Total: 6]

A3 (a) Cross halving slots

15/20 on bottom of F.E. (2)

[2]

(b) Overall proportion – height (1) width (1)

Stand sloping back (1)

Pocket proportion (1)

Front cut-out (1)

Inside edge of pocket evident (1)

Radius corners to pocket (1)

Slope to back prop behind part A (1)

[8]

[Total: 10]

Page 3	Mark Scheme: Teachers' version	Syllabus	Paper
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B4 (a) Bar Chart

Each year block and labelled (5 × 1)

Each year correct height to scale (5 × 1)

[10]

(b) Drawing of Symbol

Head Ø40 (1)

2 feet Ø20 (2 × 1)

2 hands Ø20 (2 × 1)

4 widths correct and equal (2)

2 shoulders radius 20 (2)

O/H 70/70 (1)

[10]

(c) Enlargement

Two lines to focal point (2)

Drawn rectangle (1)

Square of 48/50 with curve top/bottom (2)

[5]

[Total: 25]

B5 (a) View from A

Two sides correct O/Length 150 (2 × 1)

30° included angle (1)

50 plain end (1)

60 window (1)

[5]

View from B

50 high (1)

78 ±2 wide (1)

2 × Windows (1)

On bottom half (1)

Flap shown correctly (1)

[5]

(b) Development

Length of side 150 (1)

Height of side 50 (1)

2 rectangular sides (2)

30° middle section (1)

Fold line 25 down (2 × 1)

Window cuts 60 apart (1)

Window 50 from base end (1)

Cut line parallel to base (2 × 1)

[11]

(c) Flaps will hold together

Pr 1–2 (2)

Quality of sketch

Pr 1–2 (2)

[4]

[Total: 25]