CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2013 series

0625 PHYSICS

0625/51

Paper 5 (Practical), maximum raw mark 40

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 should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.

BBCAMRRIDGE

www.xtrapapers.com

Page 2	Mark Scheme	Syllabus 🔪	. 2
IGCSI	E – May/June 2013	0625	ab.

1 (a) h, w and d recorded <u>all</u> given to same correct unit

2

(b) α	correct to ± 1(°)	[1]
a a m	rst θ recorded (< 45°) t least one more θ dditional θ recorded nethod for finding average θ correct orrect average given to nearest 0.5° or 1° with unit	[1] [1] [1] [1]
	orrect statement for results (expect Yes) dea of within (or beyond) experimental accuracy	[1] [1] Total: 10]
(a) s	ensible value for $ heta_{R}$	[1]
s c te e	able: , °C, cm or mm orrect <i>t</i> values 0, 30, 60, 90, 120, 150, 180 emperatures decreasing vidence of temperatures to at least 1°C / values realistic and relating to temperatures	[1] [1] [1] [1]
(e) (i	i) does not go through the origin	[1]
(ii	i) d not measured from 0°C mark o.w.t.t.e.	[1]
(iii	i) use at least 0–100 on scale division by appropriate number from scale	[1] [1]

[Total: 10]

Page 3	Mark Scheme	Syllabus	.0	V
	IGCSE – May/June 2013	0625	100	
			-	

3 (a) table:

4

(n) any one from:

making sure pins are vertical align pins by viewing bases of pins pins as far apart as possible (>5 cm)

all *V* to at least 1 d.p. and < 3 V all *I* to at least 2 d.p. and < 1 A *R* values correct

(b) graph: axes correctly labelled suitable scales all plots correct to ½ small square good line judgement AND thin, continuous line	[1] [1] [1]
(c) triangle method shown using at least half of line G and measured I values to within 10% of each other	[1] [1] [1] [Total: 10]
ray trace: normal drawn at centre of MR incident ray at 30° (\pm 1°) first P_3P_4 at least 5 cm apart reflected rays in correct positions and neat construction lines to X correct	[1] [1] [1] [1]
(I) lines correctly drawn a and b correct measurements to ±0.1 cm	[1] [1]
(m) statement matches results (expect Yes) idea of within (or beyond) experimental accuracy	[1] [1]

[Total: 10]

[1]