www.xtrapapers.com

## **UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS**

**International General Certificate of Secondary Education** 

## MARK SCHEME for the May/June 2010 question paper for the guidance of teachers

## 0625 PHYSICS

0625/52

Paper 52 (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 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.

CIE is publishing the mark schemes for the May/June 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

www.xtrapapers.com

[Total: 10]

	Page 2		Mark Scheme: Teachers' version Sy	abus	
				0625	
1	(a)		es in cm (all < 50) es correct (at least 2 significant figures)	Habus A. Dalla Callada	
	(b)	plots all	pelled suitable, plots occupying at least half grid correct to ½ square ged line thin line	[1] [1] [1] [1]	
	(c)	-	method used and shown (any indication on graph) ) using at least half line (can be seen in calculation)	[1] [1]	
	(d)	μ 27 – 33 2 or 3 sig	3 (g) gnificant figures and unit g	[1] [1] <b>[Total: 10]</b>	
2	(a)	times 30 beaker A dish B te	both in °C 0, 60, 90, 120, 150, 180 A temperatures decreasing emperatures decreasing more rapidly e of temperatures to 1 °C	[1] [1] [1] [1] [1]	
	(b)	both tem	nperature falls correct (ignore unit or lack of unit)	[1]	
	(c)	•	cion matches statement (expect B) reference to readings (need a comparison – not 'heat' or 'it') B & temp fall for this mark in same time	) [1] [1]	
	(d)	stir/same same int constant same vo avoid dra (NOT ref	from: arting temperature e thermometer position terval time t room temperature/carry out at same time blume/amount/mass of water aughts or wtte ference to container, insulation, precaution) nswers: -1 if incorrect, ignore if neutral)	[2]	

www.xtrapapers.com

[Total: 10]

Page 3		ge 3	Mark Scheme: Teachers' version	Syllabus
			IGCSE – May/June 2010	0625
3	(a)	I to a		Syllabus 0625  A Day T  OHD College   1   1   1   1   1   1   1   1   1
	(f)			[1] [1] [1]
	(g)		nt matches readings (expect NO) ion matches statement and by reference to results	[1] [1] <b>[Total: 10]</b>
4	ray	trace: one set of normal d EF at 30 one P <sub>1</sub> P <sub>2</sub> one P <sub>3</sub> P <sub>4</sub>	[1] [1] [1] [1] [1]	
	(h)	$\theta$ correct	t to <u>+</u> 2°	[1]
	(i)	$(\theta-2i)$ c	correct	[1]
	(j)	$\theta$ and ( $\theta$	$-2i$ ) present, unit $^{\circ}$ at least once in <b>(h)</b> , <b>(i)</b> or <b>(j)</b>	[1]
	(k)	justificati	nt matches results (YES or NO) ion matches statement and by reference to results	[1]
			mits of experimental inaccuracy, wtte fferent, wtte)	[1]