## 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

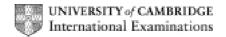
Paper 52 (Practical), maximum raw mark 40

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.

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	Page 2		Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – May/June 2010	0625	52
1	(a)	table: 5 <i>d</i> value 1/ <i>d</i> value		[1] [1]	
	(b)	plots all	elled uitable, plots occupying at least half grid correct to ½ square jed line thin line		[1] [1] [1] [1]
	(c)	triangle <u>r</u> (triangle)		[1] [1]	
	(d)	μ 27 – 33 2 or 3 sig		[1] [1]	
					[Total: 10]
2	(a)	times 30 beaker A dish B te	ooth in °C , 60, 90, 120, 150, 180 A temperatures decreasing emperatures decreasing more rapidly e of temperatures to 1 °C		[1] [1] [1] [1]
	(b)	both temperature falls correct (ignore unit or lack of unit)			[1]
	(c)	•	ion matches statement (expect B) eference to readings (need a comparison – not 'hea B <u>&amp;</u> temp fall for this mark in same time	t' or 'it')	[1] [1]
	(d)	stir/same same int constant same vo avoid dra (NOT ref	from: carting temperature the thermometer position cerval time room temperature/carry out at same time lume/amount/mass of water aughts or wtte ference to container, insulation, precaution) aswers: -1 if incorrect, ignore if neutral)		[2] [Total: 10]
					[10tal. 10]

	Page 3		Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – May/June 2010	0625	52
3	(a)	[1] [1] [1] [1]			
	(f)				[1] [1] [1]
	(g)		nt matches readings (expect NO) on matches statement and by reference to results		[1] [1] <b>[Total: 10]</b>
4	ray	normal d EF at 30 one P <sub>1</sub> P <sub>2</sub>	of lines present, thin, neat and in correct areas lrawn ° to normal (by eye) 2 distance at least 5 cm 4 distance at least 5 cm		[1] [1] [1] [1]
	(h)	$\theta$ correct	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) on matches statement and by reference to results mits of experimental inaccuracy, wtte		[1]
			fferent, wtte)		[1]

[Total: 10]