## 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

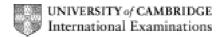
Paper 52 (Practical), maximum raw mark 40

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.

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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)	graph: axes labo scales su plots all o well judg		[1] [1] [1] [1]	
	(c)	triangle <u>r</u> (triangle)		[1] [1]	
	(d)	μ 27 – 33 2 or 3 sig		[1] [1] <b>[Total: 10]</b>	
2	(a)	times 30 beaker A dish B te	pooth 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]
	(b)	both temperature falls correct (ignore unit or lack of unit)			[1]
	(c)	c) justification matches statement (expect B) and by 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 into constant same voi 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) hswers: -1 if incorrect, ignore if neutral)		[2]
					[Total: 10]

Page 3		ge 3		eme: Teachers' version	Syllabus	Paper		
			IGCS	E – May/June 2010	0625	52		
3	(a)	- <b>(e)</b> table V, A V to I to a correction.		[1] [1] [1] [1]				
	(f)	diagram: correct symbols voltmeter position correct lamps in parallel in correct circuit						
	(g)		nt matches reading ion matches staten	gs (expect NO) nent and by reference to results	S	[1] [1] [Total: 10]		
4	ray	ray trace: one set of lines present, thin, neat and in correct areas normal drawn EF at $30^{\circ}$ to normal (by eye) one $P_1P_2$ distance at least 5 cm one $P_3P_4$ distance at least 5 cm						
	(h)	$\theta$ correct	t to <u>+</u> 2°			[1]		
	(i)	$(\theta-2i)$ c	correct			[1]		
	(j)	heta and ( $ heta$	- 2i) present, unit	° at least once in <b>(h)</b> , <b>(i)</b> or <b>(j)</b>		[1]		
	(k)	justificati (within lir	mits of experimenta	(YES or NO) nent and by reference to result al inaccuracy, wtte	s	[1]		
		or <u>too</u> dif	fferent, wtte)			[1]		
						[Total: 10]		