## MARK SCHEME for the May/June 2011 question paper

## for the guidance of teachers

## 0625 PHYSICS

0625/62

Paper 6 (Alternative to 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.

• Cambridge 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 2011	0625	62
1	(a)	100, 200	, 300, 400, 500		[1]
	(b)	Scales so All plots Continuo	elled (label and unit) uitable correct to nearest ½ small square ous, straight, well-judged best fit line , neat plots		[1] [1] [1] [1] [1]
	(c)	F correct Clear ho	[1] [1]		
	(d)	Weight/n	nass/force of rule owtte		[1] [Total: 9]
2	(a)	<u>23</u> (°C)			[1]
	(b)		, words or symbols 10, 120, 150, 180		[1] [1]
	(c)	Uninsulated (owtte) OR no significant difference Justified by reference to temperature <u>differences</u> and <u>time</u>			[1] [1]
	(d)	(constant tube size thickness volume/a	from: nperature/ <u>starting</u> temperature/temperature of <u>hot</u> wa t) room temperature/ correct <u>named</u> reference to env e/same test-tube s of glass amount/level of water s of cotton wool		
		depth (of (rate of) :	f immersion) of thermometer stirring		[2]
	(e)	Any two	suitable insulators (that can be wrapped around tube	;)	[2]
					[Total: 9]

	Page 3		Mark Scheme: Teachers' version	Syllabus	Paper
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3	(a)	4.29, 6.3 <u>consister</u> cm, A, V	[1] [1] [1]		
	(b)	Yes Within lir	nits of experimental accuracy		[1] [1]
	(c)		ff between readings ow current (owtte)		[1]
	(d)		circuit symbol on correct		[1] [1] [Total: 8]
4	(a)	<i>i</i> = 30° (±	1º) - no penalty for missing or incorrect unit		[1]
	(b)	<i>b</i> = 36m Lines HF <i>n</i> correct	o 13mm/1.2 to 1.3cm m/3.6cm <sup>F</sup> and P <sub>4</sub> P <sub>3</sub> H drawn <u>neatly</u> and <u>correctly</u> tly calculated significant figures, no unit		[1] [1] [1] [1] [1]
	(c)	At least s Greater a	5 <u>cm</u> accuracy owtte		[1] [1]
	(d)	OR pins OR thick	a not vertical/not straight too close ness of lines/size of holes thickness of ray		[1] [1] [Total: 10]
5	(a)	All labels <i>F/W</i> /weig L//length <i>e</i> /extens	[1]		
	(b)	Two fron Same dia Same lei	ameter/thickness/cross-sectional area/cross-sectiong area/cross-sectiong angth	on	[1]
		(Room) t	temperature		[2]
					[Total: 4]