## MARK SCHEME for the October/November 2010 question paper

## for the guidance of teachers

## 0625 PHYSICS

0625/61 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.

• 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 –	October/November 2010	0625	61
1 (a)	correct 1 all to 2 si	[1] [1]			
(b)	graph: axes suit all plots o good line thin line,	[1] [1] [1] [1]			
(c)	gradient clear, on	[1] [1]			
(d)	z value 0 2 or 3 sig		[1] [1]		
					[Total: 10]
2 (a)	<i>θ</i> <sub>r</sub> 26				[1]
(b)	(i) san	d °C in both ta	ables		[1]
	(ii) at le	[1]			
(c)	Table 2.2 (heating) justified by two temperature differences compared, must see 14 and 44/56 OR 74 to 60 and 25 to 69/81				[1]
(d)	any two same sta constant same tim same the same ma				
	same be lid alway	[2]			
		[Total: 6]			

	Page 3		Mark Scheme: Teachers' version IGCSE – October/November 2010		Syllabus	Paper 61	
					0625		
3	(a)	0.3 – 0.3	31			[1]	
	(b)	Ω, Α 10.1				[1] [1]	
	(c)	correct c 10(Ω)	alculation of (	$0.5I_{\rm o}$ shown (ecf)		[1] [1]	
	(d)	voltmete	in parallel		[1] [1] [1]		
						[Total 8]	
4	(a)	P₃P₂ <b>G</b> la		ectly and neat prrectly and neat 5cm apart		[1] [1] [1] [1]	
			<b>(v)</b> 40 – 42 2 <i>i</i> ) correct	(ecf) (ecf)		[1] [1]	
	(b)	(i) 2 and unit (°) present at least once					
		refe	(or No, ecf) rence to 'withi close enough (	n limits of experimental accuracy' or wtte)		[1] [1]	
	(c)	no concern about pins being vertical (or wtte)					
5	(a)	) any three from: mass/volume/amount of water room temperature temperature of water amount of stirring size/shape of beaker temperature of ice cube number/mass/size of cubes					
	(b)	any three stopcloc balance: thermom	k:	time mass temperature			
		measurir	ng cylinder:	volume (of water)		[3]	
						[Total 6]	