MARK SCHEME for the October/November 2010 question paper

for the guidance of teachers

0625 PHYSICS

0625/53

Paper 5 (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 October/November 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



	Page 2		Mark Scheme: Teachers' version	Syllabus	Paper	
			IGCSE – October/November 2010	0625	53	
1	(a)	(a) a and b present and in cm a + b < 50 cm m correct calculation				
	(b)	More tha Sensible V calcula	two values given for <i>w</i> <u>or</u> <i>t</i> an two values given for <i>w</i> <u>and</u> <i>t</i> a values for <i>w</i> and <i>t</i> ation correct method to 2 or 3 significant figures and unit 5–1.5		[1] [1] [1] [1] [1] [1]	
	(c)	Centre o	f mass at 50 cm mark/midpoint/middle (wtte)		[1] [Total: 10]	
2	(a)	$ heta_{ m r}$ sensib	le value		[1]	
	(b)-	Tabl Tabl	s, θ in °C rect <i>t</i> values le 2.1 temperatures decreasing le 2.2 temperatures decreasing lence of temperatures to 1°C		[1] [1] [1] [1] [1]	
	(e)	Justified	nt matches readings by reference to readings son given of changes in temperature with numbers		[1] [1]	
	(f)	Constant Carry ou	from: tarting) temperature (wtte) t room temperature/draughts (wtte)/environment/pla t in same time intervals/duration ermometer (wtte)	асе		
			ume of water/location of thermometer/beaker/'temp sponses, –1 for each <u>additional</u> incorrect (ignore 'ne		[2]	
					[Total: 10]	

	Page 3		Mark Scheme: Teachers' version	Syllabus	Paper	
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3	(a)	V_0 sensible value 1.0–2.5				
	(b)		/ in V at least 1 d.p. 6 decreasing		[1] [1] [1]	
	(c)	 Graph: axes labelled and scales suitable (origin included) All plots correct to nearest ½ small square Well judged best fit line Thin line 			[1] [1] [1] [1]	
	(d)		ended suitably to <i>y</i> axis correct to ½ small square		[1] [1] [Total: 10]	
4	(b)	d = 2.8–3		[1]		
	(c)-	s va s² va s² va All a	ect × values 2.0, 4.0, 6.0, 8.0, 10.0 lues present and increasing alues correct alues all to same number of significant figures (2, 3 above in correct units al s^2 value 2× first value (± 10%)	or 4)	[1] [1] [1] [1] [1] [1]	
	(f)	 (f) Correct statement matching results (g) Justified referring to specified results (either exact or within limits of experimental accuracy, or wtte) 			[1]	
	(g)			te)	[1]	
	 (h) Any one of: Use of darkened room How to avoid parallax when taking readings Use of marks paper on screen to aid measurements Card and screen vertical 					
		Repeats		[1]		
					[Total: 10]	
					-	