MARK SCHEME for the May/June 2008 question paper

0625 PHYSICS

0625/06

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.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

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	Syllabus	Paper		
			IGCSE – May/June 2008	0625	06		
1	(a) (i)	cm,	cm, g		[1]		
	(ii)		6 (or 49.7), 49.50 (or 49.5), 50.05 (or 50.0) sistent significant figures (3 or 4)		[1] [1]		
	(b) cle	ear exp	blanation/diagram		[1]		
	(c) correct method						
	va		.7 (ignore a fourth significant figure) allow ecf from (ii)		[1]		
	(d) d =		[1]				
			(cm ³) (ecf) unit g/cm ³ , 2/3 significant figures (ecf)		[1] [1]		
					[Total: 9]		
_							
2	Table:						
	 (a) Units V, A, Ω (symbol/word) R values 1.11, 2.19, 5.05, 9.55 Consistent 2 or consistent 3 sig fig for R 						
	(b) (i)		(if within 10%) No (if not) uit 1 and circuit 2 compared		[M1] [A1]		
	(ii)	OR OR	current (so temperature not increased) switch off between readings check for zero error				
			Repeats Parallax error explained				
		OR	Tapping meter		[1]		
					[Total: 6]		
3	Graph:						
	Temperature axis labelled θ /°C Suitable scales (plots occupy at least ½ grid)						
	Plots c	orrect	to nearest ½ square (–1 each error) dged curves		[1] [2] [1]		
	Lines t			[1]			
	(b) Statement: larger surface area increases rate of cooling						
	Ju	stificat	tion:		[1]		
		mecti	reference to gradients of lines or readings		[1]		
					[Total: 8]		

	Page 3		Mark Scheme	Syllabus	Paper			
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Т	Trace:							
('n	ormal	present, thin, neat and in correct area at 90° (by eye)		[1			
			at 30° to normal (by eye) to at least beyond P₄		[1 [1			
(b) (i) a=	12–13 (mm) no ecf		[1			
	(i	•	40 (mm) no ecf nd <i>b</i> both with appropriate unit		[1] [1]			
(c) (i) & (ii) c recorded and $d = 44$ (mm)		[1]			
	(ii		rect calculation of <i>n</i> , value 1.43 (ecf) significant figures with no unit		[1 [1			
					[Total: 9]			
(a) (i) tria	ngle method used (whether or not shown on graph)		[1			
		Tria	angle using more than half line and position indicated on graph		[1]			
			pect $G = 4.00-4.35$ (but allow correct working from points read from beyond 1.0 on x axis) pect $g = 9.07-9.87$ (ecf from G)		[1 [1]			
	(i	i) gre	ater accuracy/average value		[1]			
(b) (len (oth	plitude gth ner possible correct responses shape/size of bob I number of swings)		[1] [1]			
	(i	i) doe	es not affect time		[1]			
					[Total: 8]			