## MARK SCHEME for the October/November 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.

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1	(a) view perpendicular to (or straight in front of rule)/use of set square			
	(b) (i) corr e in	ect $e_1$ value 3.1 and correct $e_2$ value 2.4 cm		[1] [1]
	(c) density 4 2/3 signi g/cm <sup>3</sup>	4.43 (ecf) ficant figures		[1] [1] [1]
	(d) $e_2$ greate $\rho$ greate	er r (or identical to <i>e</i> ₂ answer) (ecf)		[1] [1] [Total: 8]
2	correct symb	rrect symbols for ammeter and voltmeter ols for resistor t arrangement		[1] [1] [1]
	Table: units '	V, A (symbol/word)		[1]
	OR No -	on 1 Yes – close enough (or words to that effect) - not close enough (or words to that effect) on 2 Yes – approximately half (or words to that effect	t)	[1] [1]
		nce at connections		
	Internal	resistance of source/other sensible suggestion		[1]
				[Total: 7]
•	<b>-</b>			
3	Table $\theta$ in °C, V in correct V 0, 2	cm <sup>3</sup> 20, 40, 60, 80, 100		[1] [1]
	axes suitabl all plots corr	a labelled with symbol and unit e (e.g. not '3' scale) and plots occupy more than ½ g rect (better than ½ sq) thin best fit line	grid	[1] [1] [1] [1]
	2. sensi	ble comment about heat loss to the surroundings, e.g ble comment about adding water in a regulated, tir /set time intervals/shorter intervals	-	
				[Total: 8]

	Page 3	Mark Scheme	Syllabus	Paper
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<b>4</b> (a	<b>a)</b> f = 14.9(4 correct u			[1] [1]
(	<b>b) (i)</b> x <sub>s</sub> =	5.0(cm) and $y_s = 5.2(cm)$		[1]
		or of ×6 31.2(cm) (ecf)		[1] [1]
	<b>(iii)</b> 15.2	9, 15.3, 15 (ecf)		[1]
	2 or	ect method 3 significant figures and correct unit age <i>f</i> 15.1 (correct answer only)		[1] [1] [1]
(4	<b>c)</b> inverted	image		[1] [Total: 10]
5 (;	<b>a)</b> 0.7 N 6 cm <sup>3</sup> 1.4 s 4.0 N/cm	2		[1] [1] [1] [1]
(		mum current/turn down power supply/increase resis ch off between readings/carry out without delay	stance	[1] [1]
	(ii) varia	able resistor/rheostat		[1]
				[Total: 7]