

June 2004

INTERNATIONAL GCSE

MARK SCHEME

MAXIMUM MARK: 40

SYLLABUS/COMPONENT: 0625/05

PHYSICS
Practical



Page 1	Mark Scheme	Syllabus	Paper
	PHYSICS - JUNE 2004	0625	5

1.		
	units, °C, mm	1
	6 sets	1
	evidence of θ to 1°C, temps not decreasing	1
	Graph:	
	temp axis, labeled with symbol and unit, suitable scale	1
	plots to $\frac{1}{2}$ small sq (-1 each error or omission)	2
	line judgement (best fit curve)	1
	line thickness (penalise large plots here also)	1
	room temp estimate lowest value or lower as justified by graph line	1
	explanation <u>from graph</u>	1
	TOTAL	10
2.		
	units V, A and Ω	1
	3 sets of readings	1
	all V to at least 1 dp	1
	first R value correct	1
	all R to 2/3 sf	1
	R values decreasing	1
	Third R approx 0.5 x second R (allow from 0.25 x to 0.75 x)	1
	Diagram:	
	lamps correct	1
	voltmeter correct	1
	ammeter correct	1
	TOTAL	10
3.		
	units for d, t and T, cm (or mm or m), s, s	1
	3 sets complete	1
	6 sets complete	1
	T values correct	1
	consistent dp for t (OR all T to 2 sf OR all T to 3 sf)	1
	T values (decreasing as d decreases)	1
	Diagram:	
	Clear diagram showing method (using slot in mass or using diameter)	2
	(award 1 mark for adequate diagram, i.e. correct idea but not clear enough for a student to follow without any additional verbal instruction)	
	Statement NO	1
	Reason, T/d not constant	1
	TOTAL	10

Page 2	Mark Scheme	Syllabus	Paper
	PHYSICS - JUNE 2004	0625	5

4. First column only:

x and y present and sensible (25 to 50 cm) whether or not unit is shown	1
y/x correct	1
h present and sensible	1
m correct	1
y/x and m both between 1 and 2	1
h and y both units present and consistent values	1
Whole of table:	
new y values decreasing	1
y/x and m values decreasing	1
y/x and m values all with no unit	1
y/x = m	1

TOTAL 10

PAPER TOTAL = [40]