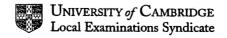


NOVEMBER 2002

INTERNATIONAL GCSE

MAXIMUM MARK: 60 SYLLABUS/GOMPONENT: 0625/5 PHYSICS (PRACTICAL)



Page 1	Mark Scheme	Syllabus	Paper
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1.	x and y both < 40 cm either to nrst mm (x + y) 39 - 41 cm correct unit, either/both	1 1 1 1
,	m correct unit	1 1
	Diagram good, neat/clear description (OR adequate	2 1)
	x and y both sensible (< 40 cm) (x + y) 39 - 41 cm	1 1
	m correct	1
	Average m method unit 2/3 sf within 5 g of each other	1 1 1 1
		TOTAL 15
2.	0 – 300 s temps present and decreasing 330 – 450 temps present and higher than t = 300 s evidence of better than 1°C all to better than 1°C	1 1 1 1
	heats up faster than cools example drop given with time example rise given with time	1 1 1
	Graph Temp scale at least ½ Labelled Plot at t = 0 s present 10 more plots plots - check 2 most off line (-1 each error) (do not award if < 6 plots) line: shape thickness	1 1 1 2 1

TOTAL 15

Page 2	Mark Scheme	Syllabus	Paper
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3.	V, I ₁ and I ₂ sensible unit for V and I (at least once) at leasts1 or 2 dp (both)	1 1 1	
	ratio correct	1	
	2/3 sf	1	
	no unit	1	-
	R ₁ and R ₂ correct	1	
	Unit either/both	1	
	Ratio correct	1	
	2/3 sf and no unit	1	
	the same	1	
	corresponds with results	1	
	Circuit	**************************************	
	Symbols cell & resistor	in .	
	Resistor, variable, voltmeter		
	Resistor fixed (-1 each error)	2	
	Voltmeter and variable resistor in correct position	s in correct circuit	1

TOTAL 15

4.	u and v present unit for either/both		1 1
	u + v = 79 - 81 cm Evidence of better than 0.5 cm (in u,v,x or y)		1
	H value		1
	x and y present		1
	unit for either/both (same as u and v)		1
	h value		1
	correct arith for ratios u/v and y/x		1
	both to 2/3 sf		1
	no units		1
	u/v = y/x within 10%		1
	correct H/h, 2/3 sf, no unit		1
	precaution stated	·	1
	explained		1

TOTAL 15