

**CAMBRIDGE**  
INTERNATIONAL EXAMINATIONS

**NOVEMBER 2002**

**INTERNATIONAL GCSE**

<b>MARK SCHEME</b>
<b>MAXIMUM MARK : 60</b>
<b>SYLLABUS/COMPONENT : 0625/5</b> <b>PHYSICS</b> <b>(PRACTICAL)</b>

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1.	x and y both < 40 cm	1
	either to nrst mm	1
	(x + y) 39 – 41 cm	1
	correct unit, either/both	1
	m correct	1
	unit	1
	Diagram good, neat/clear description	2
	(OR adequate)	1)
	x and y both sensible (< 40 cm)	1
	(x + y) 39 – 41 cm	1
	m correct	1
	Average m method	1
	unit	1
	2/3 sf	1
	within 5 g of each other	1

TOTAL 15

2.	0 – 300 s temps present and decreasing	1
	330 – 450 temps present and higher than t = 300 s	1
	evidence of better than 1°C	1
	all to better than 1°C	1
	heats up faster than cools	1
	example drop given with time	1
	example rise given with time	1
	Graph	
	Temp scale at least ½	1
	Labelled	1
	Plot at t = 0 s present	1
	10 more plots	1
	plots – check 2 most off line (-1 each error)	2
	(do not award if < 6 plots)	
	line: shape	1
	thickness	1

TOTAL 15

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3.	V, I <sub>1</sub> and I <sub>2</sub> sensible	1	
	unit for V and I (at least once)	1	
	at least 1 or 2 dp (both)	1	
	ratio correct	1	
	2/3 sf	1	
	no unit	1	
	R <sub>1</sub> and R <sub>2</sub> 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		
	Resistor, variable, voltmeter		
	Resistor fixed (-1 each error)	2	
	Voltmeter and variable resistor in correct positions in correct circuit		1

TOTAL 15

4.	u and v present	1	
	unit for either/both	1	
	u + v = 79 – 81 cm	1	
	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