

CAMBRIDGE
INTERNATIONAL EXAMINATIONS

NOVEMBER 2002

INTERNATIONAL GCSE

MARK SCHEME

MAXIMUM MARK : 60

SYLLABUS/COMPONENT : 0625/5

**PHYSICS
(PRACTICAL)**



UNIVERSITY of CAMBRIDGE
Local Examinations Syndicate

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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

Page 2	Mark Scheme	Syllabus	Paper
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3.	V, I ₁ and I ₂ 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 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		
	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