

JUNE 2002

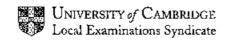
INTERNATIONAL GCSE

MARK SCHEME

MAXIMUM MARK: 40

SYLLABUS/COMPONENT: 0625/6

PHYSICS (ALTERNATIVE TO PRACTICAL)



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(a) Two from rule zero at correct position (anywhere below top of bench) eye level shown (bottom or top) rule next to blocks marker (a g set square) yeard.	2
marker (e.g.set square) used	4
(b) (i) h = 1.2 - 1.3 correct unit for h actual height = 12 cm (i.e. 10 x h) t = h/6 t = 2.0 (or value corresponding to h) to 2/3 sf (award 3 marks if t correct to 2/3 sf, if wrong look to see if either of other to	1 1 1 1 1 wo marks can be given) TOTAL 7
 2. (a) (i) ammeter symbol, correctly connected (ii) voltmeter symbol, correctly connected (b) (i) correct pointer position (by eye) (ii) 0 - 0.5 (c) 13/13.0/13.04 unit 2/3 sf 	1 1 1 1 1 1 TOTAL 7
3. (a) Any three from vol/mass of water mass of sugar type of sugar surface area of sugar room temp same beaker amount of stirring	3
(b) scales labels plots (- 1 each error) to ½ square line judgement	l 1 2 1
(c) (i) time reduced (ii) two correct ratios (2.5 – 3.0) both no unit	1 1 1

(iii) prediction (2.5 - 3.0 to 2/3 sf)

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4. (a) (i) two correct, neat reflected rays through A and B (ii) two correct, neat incident rays from P that meet	1
the reflected rays at the mirror	1
(iii) arrow on an incident ray	i
arrow on a reflected ray	1
(iv) image (by eye) correct	1
method clear	1
(b) virtual	1
rays don't go through it, but appear to have come from it/lines are from	
behind the mirror/other convincing wording	TOTAL 8
5. (a) (i) 24	1 ·
(b)(i) way of taking an average/ to account for errors/more accurate	1
(ii) $V = 22 - 22.5$	1
p = 120 - 122	1
Both PV correct (4400 - 4500)	1
(iii) prediction 240 – 260 to 2/3 sf	l TOTAL 6