

01. 0625_s20_MS_62 Q: 3

(a)	23	1
(b)(i)	47	1
(b)(ii)	stir	1
(b)(iii)	14 and 3.36 or 3.4	1
(c)	26, 35 and 0.74(3)	1
	S and W with no units	1
(d)	statement to match results	1
	justification to match statement and including clear reference with appropriate number from the results	1
(e)	room temperature	1
	temperature of hot water	1
(f)	second and third boxes ticked	1

02. 0625_w18_MS_61 Q: 4

	MP1 Workable, correct circuit diagram with power source and correct symbols for ammeter and voltmeter.	1
	Method to include:	
	MP2 Measuring V and I	1
	MP3 Repeating with at least two other values of V or power, and / or I	1
	MP4 Measuring time to raise water temperature by a specific amount or to a specific value	1
	MP5 Any ONE from: Same starting temperature Same finishing temperature Same temperature difference Same room temperature Same volume / mass / amount of water	1
	MP6 Table with clear columns for time, V and I , with appropriate units and P (or VI)	1
	MP7 Conclusion: Plot a graph of power against time.	1

03. 0625_s13_MS_61 Q: 2

- (a) $\theta_R = 23(^{\circ}\text{C})$ [1]
- (b) table: [1]
 d values 11.9, 11.3, 10.8, 10.4, 10.2, 10.0, 9.9 [1]
 all d values to nearest mm [1]
 s , $^{\circ}\text{C}$, cm or mm [1]
- (c) (i) does not go through the origin [1]
 (ii) d not measured from 0°C mark (o.w.t.t.e.) [1]
- (d) any l divided by any number of divisions [1]
 l value between 89 and 119 [1]
 $x = 0.98$ mm to 1.00 mm (with unit) [1]

[Total: 9]

04. 0625_w13_MS_63 Q: 5

- | | |
|---|-----|
| (a) neat, clear table with column headings and correct units | [1] |
| results arranged in order | [1] |
|
 | |
| (b) (i) 40° | [1] |
|
 | |
| (ii) plot a line graph | [1] |
| reading will clearly not lie on line | [1] |
| allow suggestion of appropriate mathematical treatment | |

[Total: 5]



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