

Page 5	Mark Scheme IGCSE – May/June 2013	Syllabus 0625	Paper 31
3	<p>(a) (i) 1. (loss of P.E. =) mgh OR $92 \times 10 \times 1500$ $1.38 \times 10^6 \text{ J}$ correct use of mgh with $h = 500$ or 2000 gains 1 mark only</p> <p>(ii) 2. (K.E. =) $\frac{1}{2}mv^2$ OR $\frac{1}{2} \times 92 \times 52^2$ $1.244 \times 10^5 \text{ J}$ at least 2 sig. figs</p> <p>(a) (ii) difference is due to: (work done in overcoming) air resistance/drag OR energy converted to/lost as heat (by air resistance/drag)</p> <p>(b) (i) increases</p> <p>(ii) 920 N</p>		<p>C1 A1</p> <p>C1 A1</p> <p>B1</p> <p>B1</p> <p>B1</p> <p>[Total 7]</p>
4	<p>(a) (i) mention of vacuum OR glass is a poor conductor OR vacuum/gap between walls has no molecules/atoms/particles</p> <p>(ii) surface/silver (of walls) is good reflector/poor absorber (of radiation) surface/silver (of walls) is poor emitter (of radiation)</p> <p>(b) add a stopper/lid/bung/cover/top to reduce/prevent (loss of heat by) convection/ conduction/radiation/evaporation OR to prevent steam/hot vapour leaving</p> <p>made of insulator OR example of insulator to reduce/prevent (loss of heat by) convection/radiation/evaporation OR to prevent steam/hot air leaving</p>		<p>B1</p> <p>B1 B1</p> <p>M1 B1</p> <p>B1</p> <p>[Total 6]</p>
5	<p>(a) (i) and (ii) marked together to maximum of 3 marks</p> <p>(i) molecules escape/leave the liquid/form gas or vapour</p> <p>(ii) evaporation OR heat/(thermal) energy needed for evaporation leaves sweat cooler fast(er) molecules/high(er) energy molecules escape OR slow(er) molecules left behind heat flows from body to warm the sweat (so body cools)</p> <p>(b) (i) ($Q =$) $mc\Delta\theta$ OR mcT OR $60 \times 4000 \times 0.50$ $1.2 \times 10^5 \text{ J}$ / 120 kJ</p> <p>(ii) $Q = mL$ in any form OR ($m =$) Q/L OR either with numbers ($m = 1.2 \times 10^5 / 2.4 \times 10^5 =$) 0.05 kg e.c.f from (b)(i)</p>		<p>B1</p> <p>B1 B1 B1</p> <p>C1 A1</p> <p>C1 A1</p> <p>[Total 7]</p>

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Rachel S Tattersall



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web unlined chimney note polated and i number of zones into which chimney is divided 175 2 70 4 50 0 1 pwv table 5 coefficient of dynamic 5 6 while determining the wind load on the chimney for steel chimneys clause 8 5 the value of coefficient v shall be taken from table 7 depending upon the parameter e_l as given in 8 8

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