

Question number	Answer	Notes	Marks
2 (a)	work (done) = force \times distance (moved);	allow rearrangements and standard symbols e.g. $W = F \times d$	1
(b)	dimensionally correct substitution; correct evaluation; unit; e.g. (W =) $275\,000 \times (0.163 - 0.008)$ (W =) 42 600 joules / J	allow force multiplied by any distance unit conversion error or POT error loses the evaluation mark e.g. 4 262 500, 4262.5 mark independently allow 275×15.5 allow 43 000, 42 630, 42 625 allow kJ 42.6(25) kJ scores 3 marks	3

Total for Question 2 = 4 marks