

Question number	Answer	Accept	Reject	Marks
7 (a) (i)	Work done = force x distance (in direction of force);	$W = F \times d$ $d = W / F$ $F = W / d$		1
(ii)	Substitution (in correct equation); Answer; e.g.: $W = 1.7 \times 0.46 = 0.78 \text{ (J)}$ ;;	0.782		2
(iii)	Response must match 7a(ii) ; e.g. 0.78 ;	Accept word answer e.g. "the same"		1
(b) (i)	KE is zero /less / decreased;	No KE The KE is transferred (to other forms)		1
(ii)	Centre of gravity is lower;	Centre of mass is lower Height is lower <u>and</u> reference to mgh		1

**Total 6 marks**