	Question number		Answer	Notes	Marks
9	(a)	(i)	elastic (potential) / EPE;		1
		(ii)	mechanically/mechanical (working);		1
		(iii)	the person/the hand/the fingers;	allow chemical (energy of the student)	1
	(b)	(i)	curve/variable gradient/not linear;	accept 'unloading and loading are different' ignore reference to proportionality	1
		(ii)	line returns to {origin/start/(0,0)/no extension}; when the force is removed/ unloaded;	ignore reference to shape allow returns to original length condone 'when unloading'	2
	(c)	(i)	substitution into given equation "v² = u² + 2as";  re-arrangement; evaluation; answer to 2 sig figs;  e.g. 0² = (13)² + (2 × -10 × s) height = 169 / 20 (height =) 8.45 (m) (height =) 8.5 (m)	ignore sign accept mgh = ½ m v <sup>2</sup> independent mark	4
		(ii)	any five from:  MP1. band has weight;  MP2. no drag at highest point;  MP3. resultant force is downwards;	allow 'has gravitational force' ignore 'has gravity' allow 'air resistance' for 'drag'	5
			MP4. band accelerates;	allow 'speed increases'	
			MP5. (once band is moving) there is drag	MP6 automatically scores MP5	
			MP6. drag increases (while accelerating);		
			MP7. resultant force decreases;		
			MP8. (so) acceleration decreases;		