Question number			Answer	Notes	Marks
9	(a)	(i)	(gravitational potential) energy = m x g x h;	ACCEPT: E = mass x gravity x height REJECT: E = W x h	1
		(ii)	Substitution 18 x 10 x 5 ; Calculation 900 (J) ;	If (i) is blank, but correct equation written in (ii), then credit. ACCEPT: 882 (J)	2
		(iii)	equal / the same / =	ACCEPT: equivalent REJECT: proportional IGNORE: 900 J	1
	(b)		Up to five marks in all – up to two for each mechanism Conduction air / gas is a poor conductor / insulator ; air molecules are (relatively) far apart ; fibres are insulating ; Convection air / gas (between fibres) cannot move ; thus no / reduced convection <u>currents</u> ; Radiation aluminium foil / shiny surface is a poor radiator ; thermal energy / heat/ / radiation is reflected (back inside) ; aluminium foil / shiny surface is poor absorber ;	IGNORE: conductor of electricity ACCEPT: particles cannot transfer energy as they don't collide often ACCEPT: emitter	5

Total 9 marks