ð	across an ice surface towards a circular target marked on the ice.			
		commons.wikimedia.org		
	(a)	A stone of mass 19.6kg is accelerated uniformly for 1.25s before being released by a curler. The stone then decelerates uniformly to rest, travelling 32.5 m in a time of 17.5s.		
		Calculate the average useful power developed by the curler in accelerating the	stone. (4)	
			(-)	
		Average power =		
	*(b)	Stone B is stationary. Stone A travels towards the target and makes a direct hit		
	(0)	stone B as shown. Both stones have mass m .	Oil	
		stone B stone A		
		The collision is elastic. Just before the collision stone A has a velocity v . After	r the	
		collision stone B moves off with velocity v.		
		Discuss how the relevant conservation laws apply to this collision.	(6)	
	(c)	While a stone is moving towards the target, the curlers vigorously sweep the ic	e	
		directly in front of the stone.		
		Explain why this may make the stone travel further.	(2)	
		(Total for Question 8 = 1	∠ marks)	