mass 2.400 kg, as shown.	
wooden block projectile	
(a) The projectile becomes embedded in the block. They both move vertically upwarthrough a vertical displacement of 55 cm before momentarily coming to rest.	ards
Calculate the energy dissipated as the projectile hits the block.	(6)
Energy dissipated =	
(b) Explain how the principle of conservation of energy applies to this collision.	(2)

(Total for Question 7 = 8 marks)

7 A projectile of mass 65 g is fired vertically upwards into a stationary wooden block of