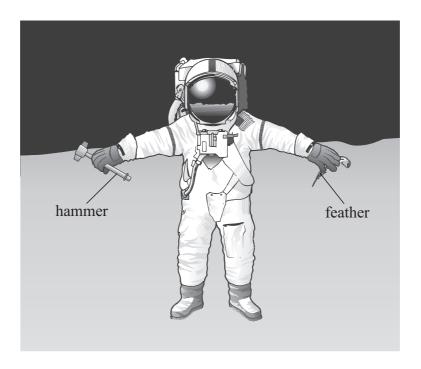
8 The Apollo 15 mission landed on the Moon in 1971.

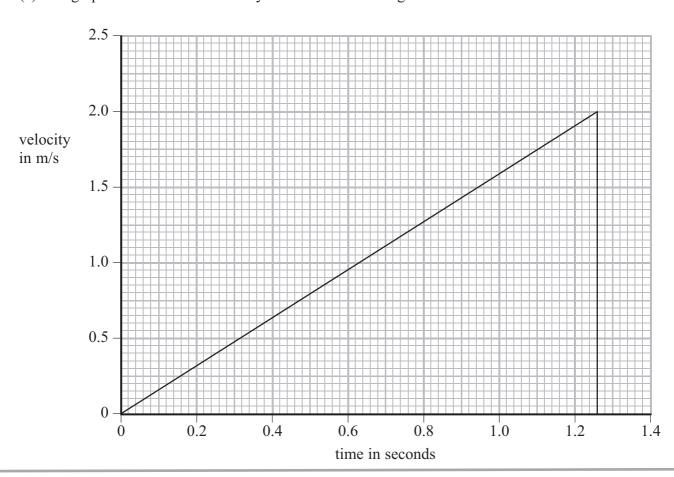
The astronaut David Scott dropped a hammer and a feather.

They were released from rest at the same time and from the same height.

The hammer and the feather landed at the same time.



(a) The graph shows how the velocity of the hammer changed with time.



(i) Use the graph to ca Give the unit.	lculate the acceleration due to	to gravity on the Moon.	
Office the unit.			(3)
	Acceleration =	Unit	
(ii) Use the graph to ca	lculate the height the hamme	er was dropped from.	(2)
	Height =	=	m
(b) The gravitational field s	trength is smaller on the Moo	on than on the Earth.	
Suggest why.			(1)
Suggest why.			(1)
Suggest why.			



(c) If the same experiment is carried out on Earth, air resistance affects both objects.	
The feather reaches the ground after the hammer, even though the force of air resists smaller on the feather than on the hammer.	stance
Explain why the feather reaches the ground after the hammer.	(4)
(Total for Question 8 = 10 r	narks)