Practice Question Set For GCSE

Subject: Physics

Name of the Student:_ Max. Marks : 23 Marks

Paper-2 Topic: Forces (High Demand Questions)



Max. Ma	rks : 23 Marks	Time: 23 Minutes
Mark Schemes		
Q1.		
(a)	two vertical arrows in opposite directions away from point X allow if the upwards arrow starts from the stem ignore any labels	
		1
	both arrows the same length dependent on MP1	1
(b)	$9.8 = \frac{\Delta V}{0.5}$	1
	$\Delta v = 9.8 \times 0.5$	1
	final velocity = Δv = 4.9 (m/s)	1
	$4.9^2 - 0^2 = 2 \times 9.8 \times s$	
	allow a correct substitution of an incorrectly calculated value of final velocity	a <i>l</i> 1
	$s = \frac{4.9^2}{2 \times 9.8}$	
	allow a correct rearrangement of an incorrectly calculated value of	final

s = 1.2 m

allow 1.23 or 1.225

velocity

do not accept 1.22

allow a correct calculation using an incorrectly calculated value of final velocity

(c) as the apple falls / accelerates air resistance increases

allow there is air resistance acting on the apple as it falls

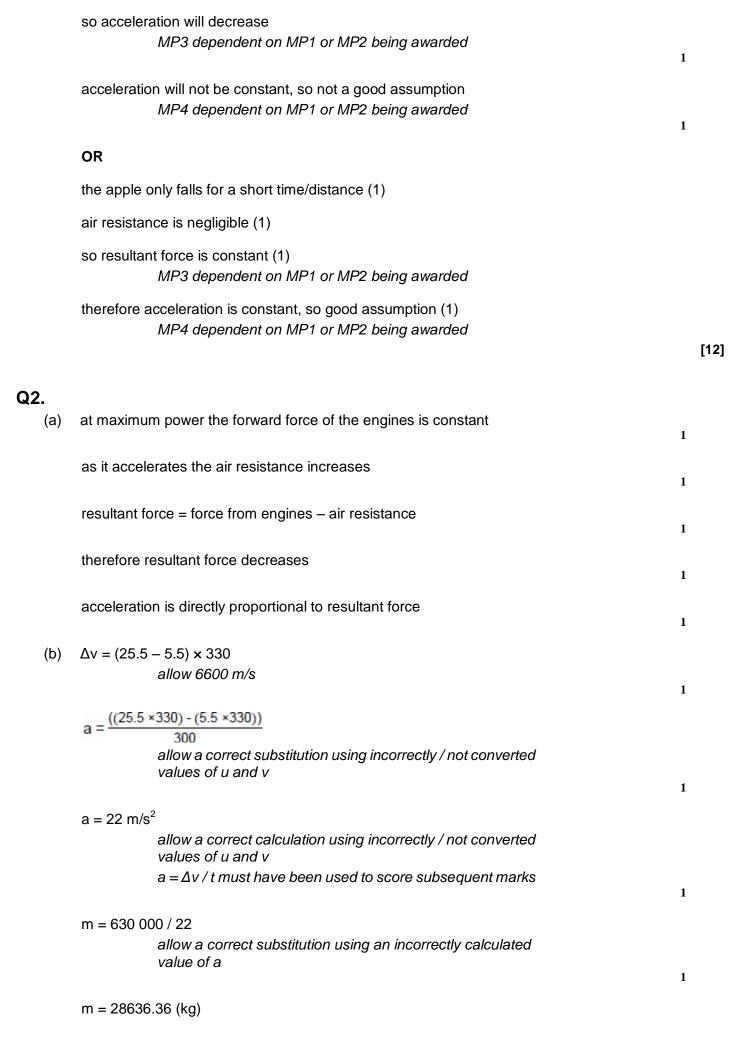
so resultant force decreases

1

1

1

1



1

m = 29000 (kg)

this mark can only be awarded for a calculation using the correct equations

1

[11]