## Practice Question Set For GCSE

**Subject: Physics** 

Name of the Student:\_

Paper-2 Topic: GCSE Triple Science\_Forces (Low Demand Questions)

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Max. Ma	rks : 21 Marks	Time : 21 Minutes
Mark Sch	nemes	
Q1.		
(a)	kinetic	1
	thermal	1
	this order only	•
(b)	(minimum braking) distance increases with increasing speed allow positive correlation	1
(c)	increases	1
(d)	12.5 - 5.0 = 7.5 (m/s)	1
	$t = \frac{7.5}{0.25}$	
	this mark may be awarded if the change in velocity is incorrectly calculated	1
	t = 30 (s)  allow a correctly calculated answer using a change in	
	velocity incorrectly calculated	1
(e)	$F = 1600 \times 0.25$	1
	F = 400 (N)	1
(f)	initial height of the ruler above the person's hand	1
(g)	there will be more variation in distances  allow reaction times for distances  allow the three students tested are not typical	1
(h)	carry out the experiment listening to music	1

1

1

1

1

1

Q2.

(a) a satellite

(b) arrow drawn towards the centre of the Earth from the Hubble Space Telescope

(c) any correct change in distance with the correct change in time e.g. 38 (km) and 5 (s)

g. 38 (km) and 5 (\$)

a correct substitution of a correct pair of values

e.g. 
$$v = \frac{38}{5}$$

a correctly calculated answer

e.g. 
$$v = 7.6 (km/s)$$

(d) galaxy **C** 

- (e) galaxy **C**
- (f) to check the observations are correct

[8]