Practice Question Set For GCSE
Subject : Physics
Paper-2 Topic: Forces (Standard Demand Questions)

Name of the Student:_____
Max. Marks : 18 Marks **Time : 18 Minutes**

Mark Schemes

Q1.

ideas that
gravity/weight (downwards)
upwards/opposite force of water **or** upthrust
forces are balanced
any three for 1 mark each

(N.B. All these ideas may be included in a short response)

(If no marks gained but candidate makes reference to forces, award 1 mark)

[3]

Q2.

(centre of the) Earth [not ground]
gravity
newtons (allow N)
each for 1 mark

[3]

Q3.

newton **or** N

metre **or** m

joules **or** J
all three correct 2 marks
two or one correct 1 mark

[2]

Q4.

(a) mass

1

(b) work (done) = force (applied) × distance (moved in the direction of the force)
*do **not** accept correctly substituted figures for this equation mark*
*accept W = Fs **or** W = Fd **or** W = Fh (well done) = force × height)*
mark formula independently

1

1 000 000 × 15

allow 1 000 000 × $\frac{15}{1000}$

1

= 15 000 000

= 15 000

1

J / joules

KJ / kilojoules

1

allow 1 000 000 × 1500

= 15 00 000 000 for 1 mark only – no unit mark

allow 3 marks for correct answer if no working / correct working is shown

(c) **Quality of written communication**

The answer to this question requires ideas in good English, in a sensible order with correct use of scientific terms. Quality of written communication should be considered in crediting points in the mark scheme

Max.4 if ideas not well expressed

A – **B** not moving

*accept stationary **or** at rest*

1

B - C acceleration **or C** – **D** acceleration

accept increases speed / velocity accept gets faster

1

comparison made that the acceleration **B – C** is less than **C** – **D**

*accept comparison made that the acceleration **C-D** is greater than **B-C***

1

D – E constant velocity

*accept steady speed **or** at 0.4 m/s*

1

E – **F** deceleration

accept decreases speed / velocity
accept gets slower

1

[10]