

Q1.(2018)

a)

uniform acceleration

b)

up(wards)

c)

a group of objects that interact

d)

velocity just after bounce is less
than just before bounce

or

the height at the top of the
bounce is less than the height
from which it was dropped

so the ball has lost energy

correct reference to (loss of) ke
or (reduced) gpe

total energy of ball and Earth /
ground is constant

Q2.(2020)

a)

Move the wooden block to the
left.

b)

use a pulley (on the edge of the
bench)

c)

suitable scale

points plotted correctly

line of best fit

d)

(directly) proportional

e)

repeat the
measurements/investigation

ignore anomalies **and** calculate
the mean / average

f)

resultant force = mass ×
acceleration

or

$$F = m a$$

g)

$$0.375 = 0.60 \times a$$

$$a = \frac{0.375}{0.60}$$

$$a = 0.625 \text{ (m/s}^2\text{)}$$

$$a = 0.63 \text{ (m/s}^2\text{)}$$