Practice Question Set For GCSE

Subject: Physics

Paper-1 Topic: GCSE Triple Science_Particle Model Of Matter (Low Demand Questions)

Name of the Student:_____

Max. Marks: 18 Marks

Time: 18 Minutes

Mark Schemes

Q1.

(a) random directions

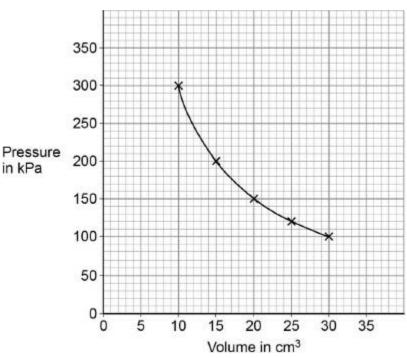
1

Exam Preparation and Free Resources

(b) a range of speeds

1

(c)



2 marks for plotting 4 points correctly 1 mark for plotting 2 or 3 points correctly

1 mark for line of best fit

3

(d) $300 \times 10 = constant$

allow use of any correct pair of values

1

constant = 3000

1

(e)

Quantity Decrea	es Stays the same Increases
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Mean time between collisions of the particles with the tube		√
Mean distance between the particles		\
Mean speed of the particles	1	

additional tick in a row negates the mark for that row

[10]

Q2.

(a) balance

1

(b) control variable

1

(c) use tongs / gloves

or

use a heatproof mat

allow other sensible methods of avoiding contact with hot beaker eg using a cloth

allow wait for the beaker (and hot water) to cool down

1

(d) $25\ 200 = 0.0090\ L$

1

$$L = \frac{25\ 200}{0.0090}$$

1

L = 2 800 000

or

 $L = 2.8 \times 10^6$

1

J/kg

1

1

(e) the transfer of thermal energy from the water to the surroundings

[8]