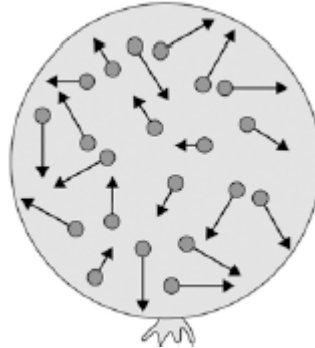


PARTICLE MODEL AND PRESSURE

Q1.

The figure below shows a balloon filled with helium gas.



- (a) Describe the movement of the particles of helium gas inside the balloon.

(2)

- (b) What name is given to the total kinetic energy and potential energy of all the particles of helium gas in the balloon?

Tick **one** box.

External energy

Internal energy

Movement energy

(1)

- (c) Write down the equation which links density, mass and volume.

(1)

- (d) The helium in the balloon has a mass of 0.00254 kg.

The balloon has a volume of 0.0141 m³.

Calculate the density of helium. Choose the correct unit from the box.

m^3 / kg	kg / m^3	kg m^3
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