

- 17 In the kinetic model of gases, what is pressure equal to?
- A the number of atoms hitting and rebounding from a surface of the gas container
 - B the number of atoms hitting and rebounding from a unit area of the gas container surface
 - C the force exerted by the atoms hitting and rebounding from a surface of the gas container
 - D the force exerted by the atoms hitting and rebounding from a unit area of the gas container surface

- 18 A rectangular metal bar exerts a pressure of 15 200 Pa on the horizontal surface on which it rests.

If the height of the metal bar is 80 cm, what is the density of the metal?

- A 190 kg m^{-3}
 - B 1900 kg m^{-3}
 - C $19\,000 \text{ kg m}^{-3}$
 - D $190\,000 \text{ kg m}^{-3}$
- 19 Which row best defines elastic and plastic behaviour of a material?

	elastic behaviour of a material	plastic behaviour of a material
A	extends only within the limit of proportionality	extends beyond the limit of proportionality
B	has a linear force-extension curve	has a horizontal force-extension curve
C	obeys Hooke's Law	extends continuously under a steady load
D	returns to its original shape and size	suffers permanent deformation

Space for working