Pressure of a gas (Recall P = F/A)



- Moving gas molecules collide with the inner wall of the container and exert a force on it.
- The force exerted per unit area is the called gas pressure.

[Note: Each and every collision can result in a different sized force, and it is not realistic to know all the forces that individual molecules exert on the walls. However, because the molecular motions are random and because of the very large number of them, the total force caused by many molecular collisions on any unit area of the container wall will be completely predictable and will (usually) be constant at all places in the container.]

