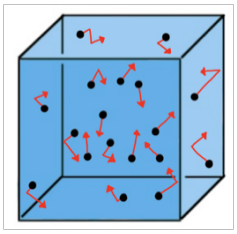
CONCEPT: PRESSURE UNITS

- The SI Unit for **Pressure** is the _____ (Pa) named after the French mathematician Blaise Pascal.

Pressure

Application	Pressure Formula
Gases are a collection of molecules that move in random directions in straight lines. 	**Pressure** is the force that a gas exerts on the wall of its container. Pressure = _____ ☐ **F** = _____ in SI Unit of Newton (N). ☐ **A** = _____ in SI Unit of m^2.

EXAMPLE: What happens to the pressure if the same amount of gas molecules is transferred from a 5.0 L container to a 10.0 L container?

a) It will increase b) It will decrease c) No change will be observed d) Not enough information

Pressure Unit Conversions

- Additional non SI units for pressure used by most chemists are _____, _____, or _____ .
  - ☐ These units for pressure have their own pressure value, which can be related to one another.

Pressure Units

Unit Name	Pressure Value	Unit Name	Pressure Value
Atmosphere (atm)	_____	Pascal (Pa)	_____
Millimeters of Mercury (mmHg)	_____	Kilopascal (kPa)	_____
Torr	_____	Bar	_____
		Pounds per square inch (Psi)	_____

EXAMPLE: The pressure in Denver, Colorado (elevation 5280 ft), averages about 24.9 inHg. Convert this pressure into mmHg and atm.