<u>Section 10.1 – Mixtures of Gases</u>

- Gas particles at independently of each other
- 2. Pressure is the result of particles colliding with the sides of the container

<u>Dalton's Law of Partial Pressures</u>

Total Pressure of a container is the result of all the pressures of each gas added together.

$$P_T = P_1 + P_2 + P_3 ...$$

 If you know the mole ratio of the mixture then you can calculate the pressure of each gas and vice versa.

Applications of Partial Pressures

- 1.Breathing pressure not amount of O₂
- 2. Collecting gas by water displacement
 - Need to subtract vapour pressure of water before beginning calculations for the gas collected
 - Page 464 sample problem