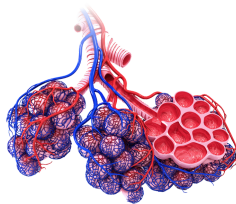


Responsible for inspiration  
 Moves to a flat position when inhaling to push the lungs up, enabling air to rush in  
 When exhaling moves to a dome position, allowing the lungs to lower and air to rush out

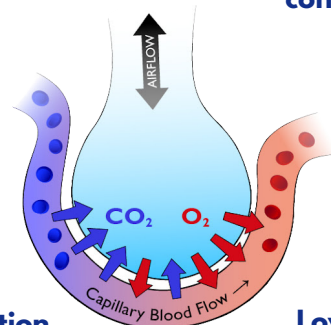


Low concentration CO<sub>2</sub> in alveoli

High concentration O<sub>2</sub> in alveoli

along pressure gradient ↑

along pressure gradient ↓



High Concentration CO<sub>2</sub> in blood vessel

Low Concentration O<sub>2</sub> in blood vessel

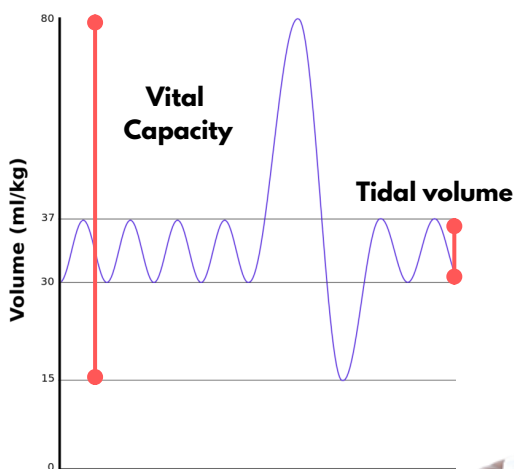
### Gas Exchange at the Alveoli

- The oxygen in the alveoli diffuses into the \_\_\_\_\_ and is transported to the working muscles
- The \_\_\_\_\_ from the bloodstream diffuses into the alveoli in order to be exhaled by the lungs

## PE COMPONENT 1 - RESPIRATORY SYSTEM



### Labelling a Spirometer Trace



	Inhaled Air	Exhaled Air
Oxygen	21%	16%
Carbon Dioxide	0.04%	4%

### Alveoli

- Tiny \_\_\_\_\_ of air that have a high concentration of oxygen after breathing in
- Oxygen diffuses through the moist, \_\_\_\_\_ walls & into the blood stream
- Alveoli have a \_\_\_\_\_ surface area and are surrounded by capillaries

