

The Circulation System

- Blood is pumped to your lungs so CO_2 can be exchanged for oxygen.
- Oxygenated blood provides food and oxygen to cells.
- Deoxygenated blood takes away waste products including (CO_2)
 - Blood travels away from your heart through arteries.
 - Blood returns to your heart through veins.

RIGHT SIDE of heart pumps blood which is low in oxygen to your lungs to pick up oxygen.

LEFT SIDE of heart pumps blood which is rich in oxygen to all other parts of your body.

The circulatory system works with a double circulation. One carries blood from your heart to your lungs and back again to exchange oxygen and carbon dioxide with the air. The other carries blood all around the rest of your body and back again.

ARTERY - • small lumen

- thick layer of muscle and elastic fibres
- thick walls
- carry blood away from your heart to the organs
- usually oxygenated blood.
- stretch as the blood is forced through them and then they return to the original shape. (pulsate)

VEIN - • large lumen

- often have valves to prevent back-flow of blood.
- relatively thin walls
- carry blood towards your heart
- usually low in oxygen
- veins do not pulsate.