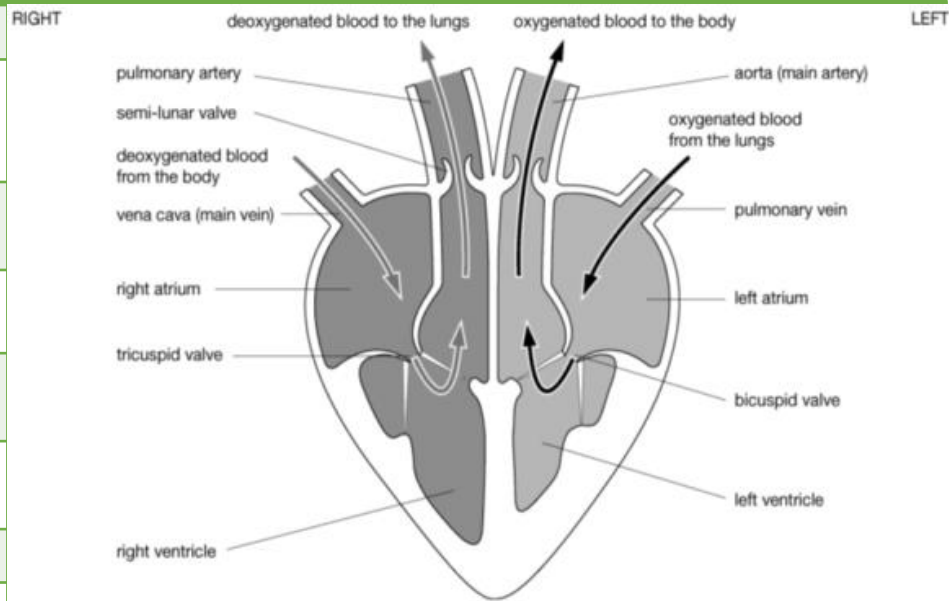


# Cardiovascular System biology

## Key words

word	definition
Atrium	The two upper cavities of the heart from which blood is passed to the ventricles.
Ventricle	Two main chambers of the heart, left and right
Aorta	The main artery of the body
Valve	Maintains the flow of the contents in one direction
Capillaries	The fine branching blood vessels
Deoxygenate	Remove oxygen from

## Key diagram – Structure of a heart



## Key knowledge

### facts

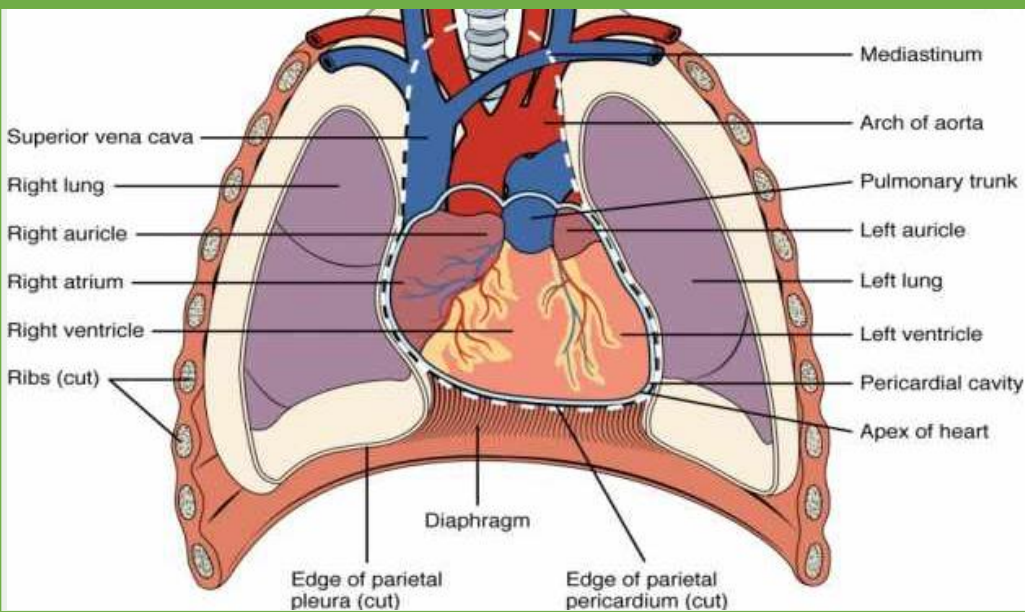
Respiration is the movement of oxygen from the outside environment to the cells within tissues, and the transport of carbon dioxide in the opposite direction.

An artery has a thick muscular walls, small lumen, carry blood under high pressure, carry oxygenated blood (except for the pulmonary artery).

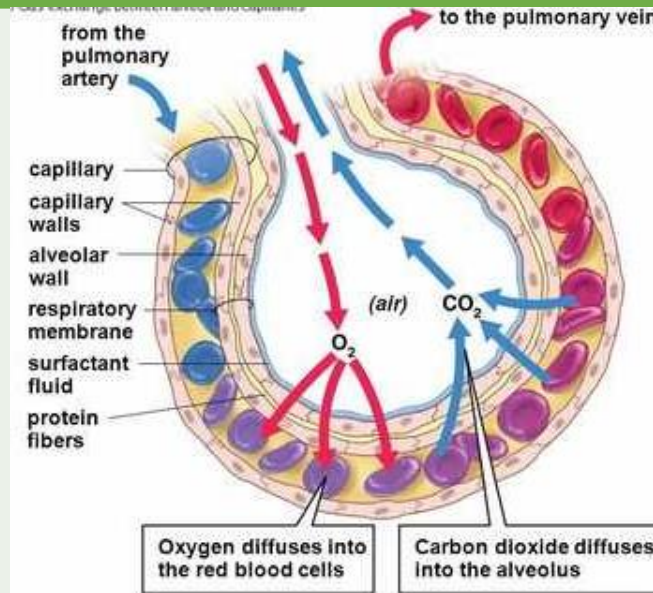
Veins have thin walls, large lumen, carry blood under low pressure, have valves to stop flow in the wrong direction, carry deoxygenated blood (except for the pulmonary vein).

Smoking damages your heart and your blood circulation, increasing the risk of conditions such as coronary heart disease, heart attack and stroke,

## Required practical – The heart and lungs



## Key process – Oxygen in the alveoli



Oxygen diffuses into the red blood cells

Carbon dioxide diffuses into the alveolus