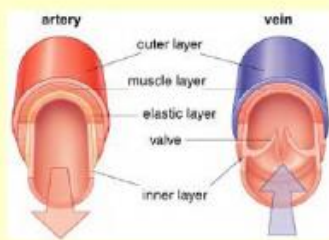


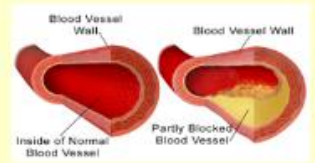
## Veins

- These carry blood back to the heart from the rest of the body
- The blood in veins does not contain oxygen instead it has carbon dioxide
- This is produced as a waste product by the body and needs to be taken to the lungs where it is breathed out
- Veins have valves to stop blood flowing the wrong way



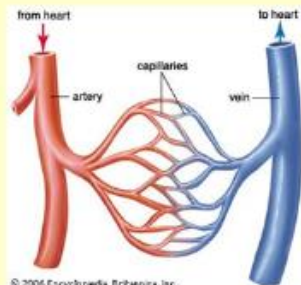
## Arteries

- These carry blood away from the heart to the rest of the body
- The blood in arteries contains oxygen which it gets by passing through the lungs
- This oxygen necessary for the body and so is transported to all the different organs where it is used
- Arteries can become clogged up which stops them working properly



## Capillaries

- Capillaries are very small blood vessels that move through organs and other tissue.
- They allow substances like food and oxygen to pass in and out of the blood



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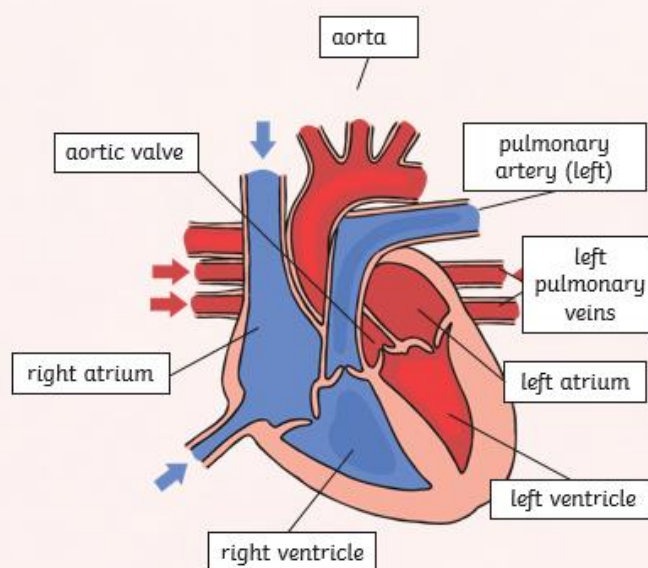


## The Function of the Heart

The heart is a powerful muscle that is situated between your lungs, protected by the ribcage.

The heart pumps blood to the lungs to get oxygen.

The heart pumps the oxygenated blood to the rest of the body.



# The Heart

- The heart is a large muscle used to pump blood.
- It first of all pumps blood from the veins to the lungs through the pulmonary artery – this removes carbon dioxide and gains oxygen
- It then pumps the blood with oxygen in around the body through the aorta and the rest of the arteries
- Your heart will beat around 2.5 billion times in your lifetime!

