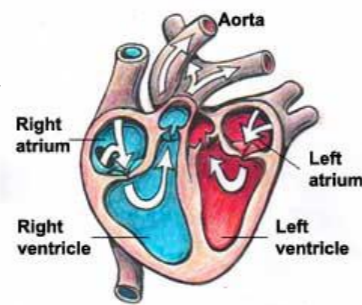


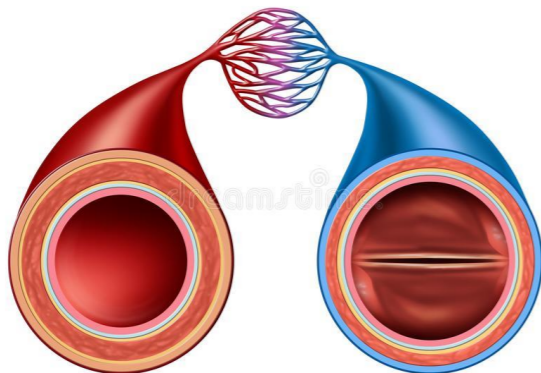
## Heart

- The heart is a large muscle used to pump blood.
- Firstly, it 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!



## Arteries

- These carry blood away from the heart to the rest of the body.
- The blood in the arteries contain oxygen which it gets by passing through the lungs.
- The oxygen is transported to other organs.



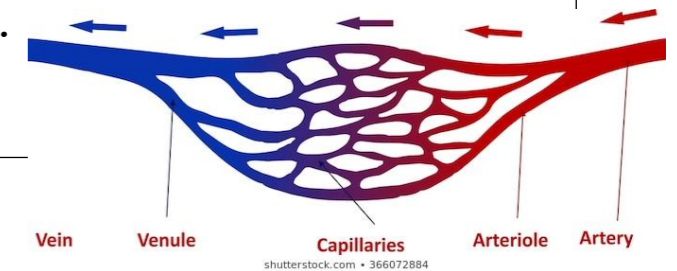
## Brain

- The brain informs the nerves what to do – making our body move.
- It needs lots of energy, which is oxygen through the blood.



## The Capillaries

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



## Veins

- Veins 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.
- Carbon dioxide is waste from organs using oxygen and is taken to the lungs, where it is breathed out.
- Veins have valves to stop blood flowing the wrong way.

