

Key Vocabulary

artery	Carries oxygenated blood away from the heart.
oxygenated	Blood with oxygen collected from the lungs.
deoxygenated	Blood that has had oxygen removed.
atrium	The upper two chambers in the heart.
ventricle	The lower two chambers in the heart.
vein	Carries deoxygenated blood to the heart.

Key Facts

- The heart is a muscle made up of the atria and the ventricles. Every beat pumps blood around your body
- Arteries and veins are tubes that carry blood either to or from the heart. These together are called blood vessels.
- Our blood transports gases (mostly oxygen and carbon dioxide), nutrients (including water) and waste products around our bodies.
- The liquid part of blood is called plasma which is made up of water and protein. Blood is also made up of red blood cells, white blood cells and platelets.

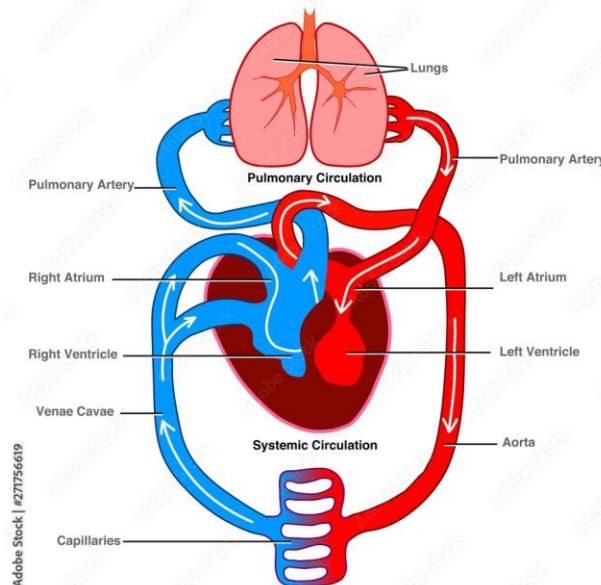
Key Questions

- What are the parts of the heart and their functions?
- What is the function of the lungs?
- What are the components of blood?
- How does the circulatory system enable the body to function?
- How are nutrients and water transported around the body?
- Why are exercise and diet important?

Links to other Learning

- Year 4 - Animals including humans
Describe simple functions of the digestive system, identify the functions of teeth.
- Year 5 - Animals including humans
Describe the changes as humans develop to old age.
- Key Stage 3 - Biology
- PSHE - Healthy eating
- PE - Physical health and fitness

Heart and Blood Circulation System



Famous Scientist

Daniel Hale Williams
1856-1931

Daniel Hale Williams was an American doctor at Provident hospital. He was the first person to perform successful open-heart surgery in 1893. Williams was performing this surgery during a time where several attempts were made to improve cardiac surgery and it was not widely accepted in the medical community.

