

Year 6 - Animals including Humans

Which parts of the body could you not live without?

Prior learning

In Year 5, you described the human life cycle and in Year 4 you described the functions of the digestive system.

Future learning

In secondary school, you will be able to label diagrams of the human body in more detail.

In this unit you will:

- Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood
- Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function
- Describe the ways in which nutrients and water are transported within animals, including humans

Key Scientist: Daniel Hale Williams



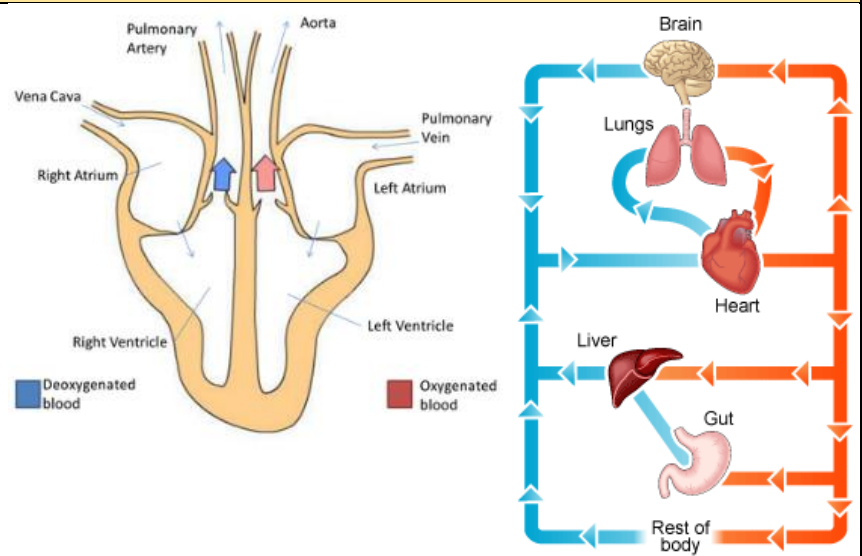
Daniel Hale Williams was an African-american general surgeon and was one of the first doctors to perform open-heart surgery in America. He also helped set up a multi-racial hospital in America.

Science discipline: **Biology**

Biology is the study of living things. A biologist is a scientist who studies biology. Biologists try to understand the natural world and the things that live in it.



Scientific diagrams



Vocabulary:

- **Blood:** Brings oxygen and nutrients to all the parts of the body so they can keep working. Blood carries carbon dioxide and other waste materials to the lungs, kidneys, and digestive system to be removed from the body. Blood also fights infections, and carries hormones around the body.
- **Ventricle:** One of the chambers of the heart. It pumps blood to your arteries.
- **Atrium:** Any chamber that is connected to other chambers or passageways.
- **Arteries:** Usually look red, carry blood away from the heart.
- **Veins:** Usually look blue, return blood to the heart.
- **Capillaries:** A network of tiny blood vessels called capillaries connects the very small artery branches to very small veins.