

What happens in my body to enable it to thrive?

Alive (structure and function)



Year 6



Key scientist – Ibn al-Nafis

An Arab physician, scientist and philosopher active during the golden age of Islam, Ibn al-Nafis provided the first description of pulmonary circulation, challenging previously long-held and now disproven theories.

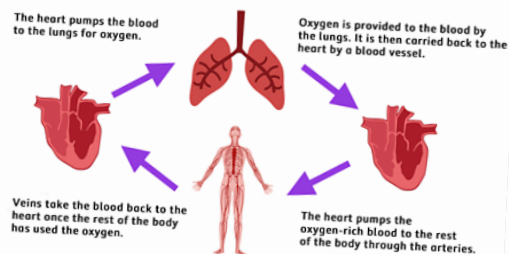
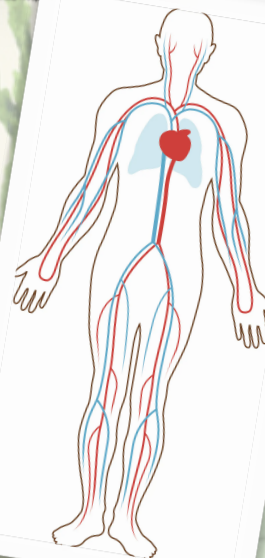
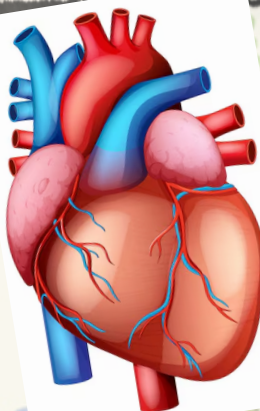


Key vocabulary

blood	A liquid tissue that circulates throughout the body, carrying water and nutrients
blood vessels	Tubes that carry blood throughout the body.
carbon dioxide	A gas in the air we breathe that is breathed out by animals and humans.
circulatory system	A network of organs and blood vessels that work together to circulate blood around the body.
deoxygenated blood	Blood without oxygen.
heart	The organ that pumps blood around your body.
lungs	Organs used for breathing in air and breathing out carbon dioxide.
nutrients	Substances in food that the body needs to grow, stay healthy and get energy
organs	Parts of our body that have a function like the skin, lungs, heart, stomach
oxygen	A gas in the air we breathe that is vital for all living things
oxygenated blood	Blood with oxygen.

Key learning

- know the names and location of the parts of the circulatory system: heart, lungs, mouth and nose, blood vessels and blood
- identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood
- describe the ways in which nutrients and water are transported within animals, including humans



Alive (Structure and Function) – Our Learning Journey

Year 1

- Animal body parts & types of animals
- Identifying trees and plants

Year 2

- Observing how plants grow

Year 4

- The digestive system

Year 5

- How humans change while they grow

Year 6

- Circulatory system
- Classifying plants and animals



Ethics

Should everyone be required to donate blood?