











Key Vocabulary

Circulatory system: the name given to the process where the heart pumps blood to all of the different parts of the body, the blood carries, food and oxygen that the rest of the body needs to survive.

Blood: a red fluid that travels around your body in tubes called blood vessels.

Red blood cells: these give blood it's colour and carry oxygenated blood around the body.

White blood cells: these keep you healthy by destroying germs they find in your body.

Patelets: these are tiny sticky cells that help stop bleeding when you cut yourself.

Plasma: this is a yellow liquid which is made up mostly of water mixed with sugar, vitamins and proteins that carries your blood cells around your body.

Septum: is a thick wall of muscle in the middle of the heart that separates the left half from the right half.

Veins: carry deoxygenated blood

Arteries: carry oxygenated blood

Ventricles, atriums and chambers: Parts of the heart. (See diagram)

Organ donation: when a person allows an organ of theirs to be removed and transplanted to another person.

Blood

What is blood?

How are nutrients transported around the body?

What are the main functions of the heart, lungs and blood vessels in the circulatory system?

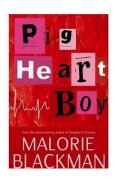
How is blood made?

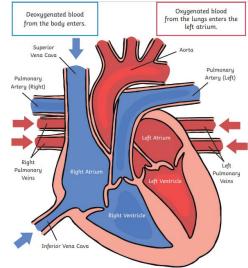
What constitutes a healthy lifestyle?

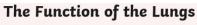
How do drugs and alcohol, and diet and exercise impact the body?

Suggested Reading

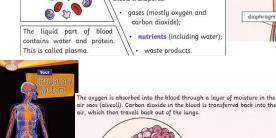


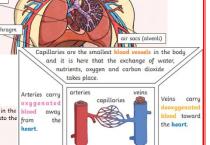






Air breathed in through the mouth or nose travels down the trachea, through the bronchi into one of the lungs. The air travels into the bronchioles and into the air sacs (alveoli).

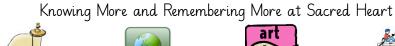




If you linked up all of the body's blood vessels, including arteries capillaries, and veins, they would measure over 60,000 miles.















Timeline

1945	End of the Second World War
5 th July	The NHS was founded by Labour Health
1948	Minister Aneurin Bevan.
21 st June	Rune Elmqvist, a Swedish medical
1948	doctor/engineer, invented the first pace maker.
20 th May	A new law, set to save hundreds of lives, was
2020	passed so that people have to 'opt out' of organ
	donation.

Key Characters:









Rune Elmqvist:

Rune Elmqvist was born in 1906 and developed the first implantable pacemaker in 1958, working under the direction of Åke Senning, senior physician and cardiac surgeon at the Karolinska University Hospital in Solna, Sweden. Elmqvist initially worked as a medical doctor, but later worked as an engineer and inventor. He passed away in 1996.

Pablo Picasso: Pablo Ruiz Picasso was born in 1881. He was a Spanish painter, sculptor, printmaker, ceramicist and theatre designer who spent most of his adult life in France. He passed away in 1973.



Drug: a substance that has an effect on your body.

Alcohol: a drug produced through grains, fruits or vegetables.

Nutrients: substances that animals need to stay healthy.











