



# Year Six Animals including Humans

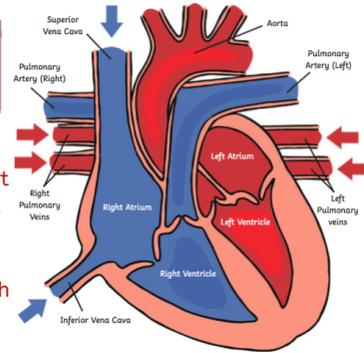


Summer 1

## The Heart

Deoxygenated blood from the body enters.

Oxygenated blood from the lungs enters the left atrium.



**DID YOU KNOW?**

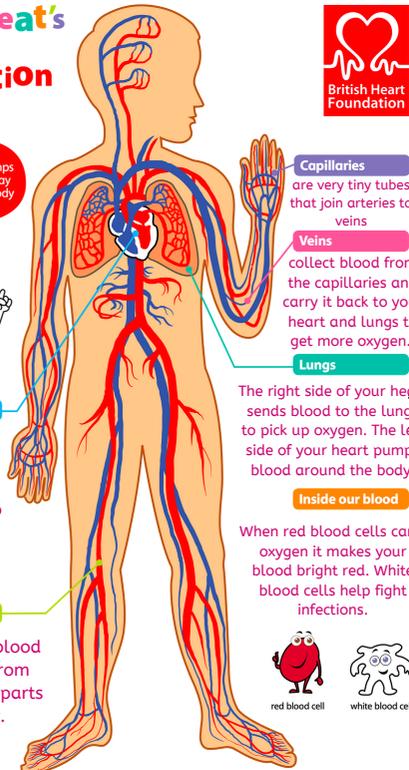
Your heart will beat about 115,000 times each day!



## Artie Beat's blood circulation chart



Your heart pumps blood all the way around your body



**Capillaries** are very tiny tubes that join arteries to veins

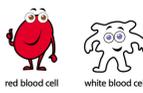
**Veins** collect blood from the capillaries and carry it back to your heart and lungs to get more oxygen.

**Lungs**

The right side of your heart sends blood to the lungs to pick up oxygen. The left side of your heart pumps blood around the body.

**Inside our blood**

When red blood cells carry oxygen it makes your blood bright red. White blood cells help fight infections.



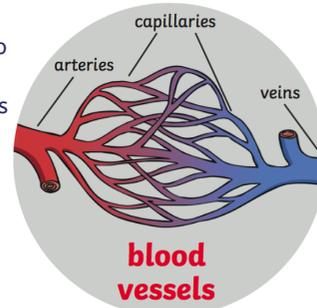
## The circulatory system allows blood to circulate around the body.

Nutrients, oxygen, hormones and blood cells go to and from the cells in the body to provide nourishment and help fight diseases.

## The heart pumps blood to the lungs to get oxygen. It then pumps this oxygenated blood around the body.

## Blood

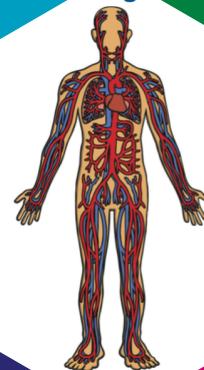
- Transports oxygen and nutrients to the lungs and tissues
- Forms blood clots to prevent blood loss
- Carries cells to fight infection
- Brings waste products to kidneys and liver
- Regulates body temperature



## blood vessels

## First human heart transplant

On December 3, 1967, 53-year-old Louis Washkansky received the first human heart transplant at Grootte Schuur Hospital in Cape Town, South Africa.



## A healthy and balanced diet, and regular exercise is important in helping the body to function.



## Drugs, alcohol and smoking have negative effects on the body.



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

Medicines are legal and beneficial drugs. They can help us to feel better but can still have side effects. All medicines should be taken responsibly.



Paracetamol is a beneficial drug.

## Glossary

**Alcohol**- a drug produced from grains, fruits or vegetables when they are put through a process called fermentation

**Circulatory system**- a system which includes the heart, veins, arteries and blood transporting substances around the body

**Blood vessels**- the tube-like structures that carry blood through the tissues and organs. Veins, arteries and capillaries are the three types of blood vessels

**Deoxygenated blood**- is blood where most of the oxygen has already been transferred to the rest of the body

**Drug**- a substance containing natural or man-made chemicals that has an effect on your body when it enters your system

**Heart**- an organ which constantly pumps blood around the circulatory system

**Nutrients**- substances that animals need to stay alive and healthy

**Oxygenated blood**- is blood that has oxygen in it. It is pumped from the heart to the rest of the body

## Transportation of water in the body

