

Year Six Animals including Humans

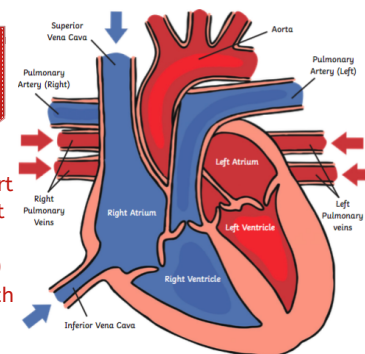


Summer

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!

The circulatory system allows blood to circulate around the body.

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

First human heart transplant
On December 3, 1967, 53-year-old Louis Washkansky received the first human heart transplant at Groote 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.

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

Artie Beat's blood circulation chart



Your heart pumps blood all the way around your body

Heart

The heart is a hard working muscle that pumps blood to every part of your body.

Arteries

carry bright red blood full of oxygen from your heart to all parts of your body.



Capillaries

are very tiny tubes that join arteries to veins

Veins

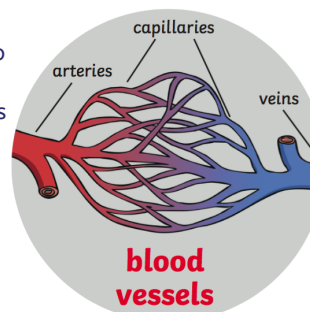
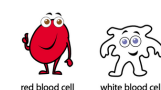
collect blood from the capillaries and carry it back to your heart and lungs to get more oxygen.

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.



blood vessels

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.

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



Transportation-
Water is taken in blood to different parts of the body

Excretion-
Waste water is passed out as urine

Absorption-
Water is absorbed by the intestines and is carried in the bloodstream

Rehydration-
Water is drunk through the mouth



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