

# Science Knowledge Organiser

## Animals including humans (Term 5)

Year 6

### Our learning

In our science lessons this term, we will be learning about animals including humans. This is part of the **biology** aspect of science. Through our learning we will be considering the **connections** between different parts of the body and how different organs function together to ensure human bodies work correctly. We will discover the impact of substances and exercise on the body as well as how to keep 'heart healthy'.

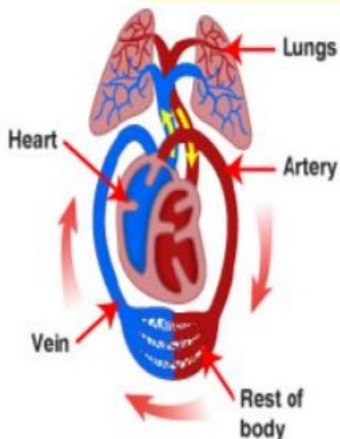


Diagram of the circulatory system

### Information

The circulatory system is made up of the heart, blood vessels and blood.

Blood carries important nutrients, oxygen and water to other organs in the body.

Blood also removes waste products such as carbon dioxide.

The heart pumps blood to the lungs to collect oxygen. The blood then goes back to the heart and is pumped around the whole body.

When humans and animals exercise this raises their heart rate and helps to keep the body healthy.

Smoking, taking drugs and drinking alcohol all have a negative impact on the human body.

Having a healthy diet and exercising regularly can have a positive impact on the human body

### As a scientist I will...

- Choose the most appropriate equipment and explain how to use it to take accurate measurements.
- Decide how long to take measurements for and check results.
- Make predictions using scientific vocabulary based on my ideas from other investigations.
- Select the most appropriate way to investigate a scientific question
- Identify and explain relationships in my data saying the difference between fact and opinion.
- Make decisions about which observations to make and use test results or observations to make predictions.

### Vocabulary

**Diet**— The things a human or animals eats

**Exercise**— A way of keeping the body healthy through being active

**Drug**— A chemical that you take into your body, which changes the way you feel and act

**Lifestyle**— The general way a person lives their life.

**Health**— A state of complete physical, mental, and social well-being and not just the absence of disease

**Heart**— A vital organ that pumps blood around the body

**Blood**— Made up of plasma and cells and carries oxygen, water and nutrients around the body

**Blood Vessels**—Tubes that transport blood around the body.

**Vein**— Takes blood without oxygen in it back to the heart

**Artery**— Takes blood with oxygen in it to the other organs in the body

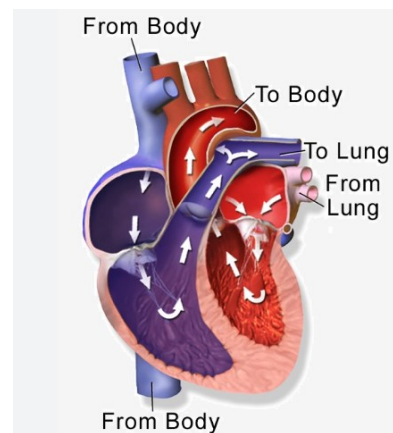


Diagram of the heart and how the blood flows through it

