

# ANIMALS INCLUDING HUMANS

## Knowledge Organiser

Year 6, Summer 1: Animals including Humans

Science Strand: Biology

Whole School Topic: Why is the Earth so Angry?

### Key Vocabulary

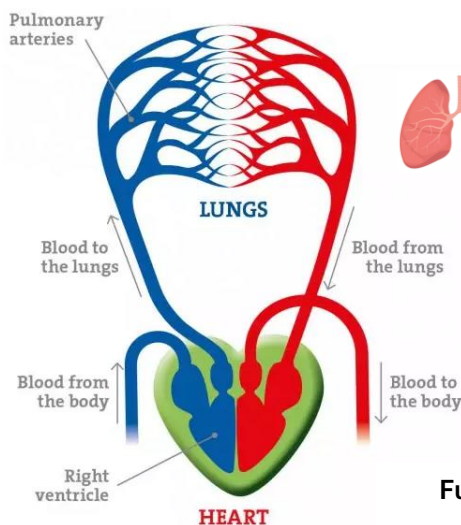
carbon dioxide	A gas produced by animals and people breathing out.
circulatory system	This circulates blood through the body. It consists of the heart, blood and blood vessels.
diet	The sort of food animals and humans regularly eat.
drugs	A medicine or other substance that has an effect in a person's body.
oxygen	A colourless gas that plants and animals need to survive.
pulse	Each time the heart beats, it can be felt as a pulse in the arteries, typically in the wrist and neck.

### Scientific Enquiry Approaches that we can use this term



### What will I know about animals including humans by the end of this topic?

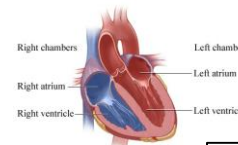
- Be able to name the main parts of the human circulatory system.
- Describe the functions of the heart, blood vessels and blood.
- Explain the impact of diet, exercise and lifestyle on the human body.
- Describe how nutrients and water are transported within animals, including humans.



### Function of the circulatory system

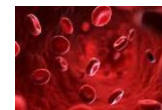
- The heart pumps blood in the blood vessels around to the lungs.
- Oxygen goes into the blood and carbon dioxide is removed.
- The blood goes back to the heart and is then pumped around the body.
- Nutrients, water and oxygen are transported in the blood to the muscles and other parts of the body where they are needed.
- As they are used, they produce carbon dioxide and other waste products.
- Carbon dioxide is carried by the blood back to the heart and then the cycle starts again as it is transported back to the lungs to be removed from the body.

### Parts of the circulatory system



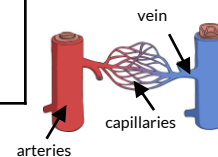
#### Heart

The organ that pumps blood around your body.



#### Blood

The red liquid pumped around the body by the heart. It transports oxygen, nutrients and water to all the parts of the body.



#### Blood Vessels

The narrow tubes which our blood flows through including the arteries, veins and capillaries.

### Diet, Exercise and Lifestyle

Diet, exercise, drugs and other lifestyle choices have an impact on how our bodies function. This can affect how well our heart and lungs work and how fit and well we feel.

#### Smoking

Can cause shortness of breath, heart and lung disease.

#### Alcohol

Too much alcohol can damage the liver, heart and stomach.

### Why is exercise so important?

Exercise can increase fitness, make you feel physically and mentally healthier, strengthen your heart and improve your lung function.

### Six basic nutrients that keep our bodies healthy:

Carbohydrates, proteins, fats, vitamins, minerals and water