

Year 5/6 Animals including Humans Knowledge Organiser



What do I know ?

- I know that humans need to eat a balanced diet, take regular exercise and have good hygiene to be healthy.
- I know that animals get nutrition from the food they eat.
- I know why humans have a skeleton and muscles.
- I can describe the basic parts of the digestive system.
- I can identify the different types of teeth in humans and describe their function.



Gems of knowledge

- I will learn about the circulatory system and its three main parts.
- I will learn about the function of the main parts of the circulatory system.
- I will learn how diet, exercise, drugs and lifestyle can impact the body's function.
- I will learn how nutrients and water are transported within animals, including humans.



How will I work like a Scientist?

- I will plan different types of scientific enquiry to answer a variety of questions.
- I will recognise and control variables where necessary (Y5- with support).
- I will select all equipment needed (Y5- with support).
- I will use a range of scientific equipment to take measurements with increasing accuracy.
- I will identify when to take repeat readings (Y5- begin to understand).
- I will take repeat readings.
- I will record data and results of increasing complexity e.g. line graphs.
- I will report and present findings from enquiries, including conclusions and suggest causal relationships (Y5- with prompting).
- I will report and present findings from enquiries in oral and written forms.
- I will identify scientific evidence that has been used to support or challenge arguments.
- I will use test results to suggest further comparative or fair tests (Y6- make predictions)
- Y6 only- I will report and present findings from enquiries, including explanations of the validity of results.



Key vocabulary

Meaning

The circulatory system

A system that pumps blood around the body.

Blood vessel

A system of tubes that carry the blood throughout the body. **The three main types are arteries, veins and capillaries.**

Oxygenated blood

Blood that has more oxygen. It is transported from the heart to the rest of the body.

Deoxygenated blood

Blood that is low in oxygen.

Aorta

The major blood vessel that carries blood away from the heart to the rest of the body.

Significant Scientist



William Harvey discovered the the nature of blood circulation and the function of the heart as a pump. Before this, people thought that blood travelled through the body by the contraction of the arteries.

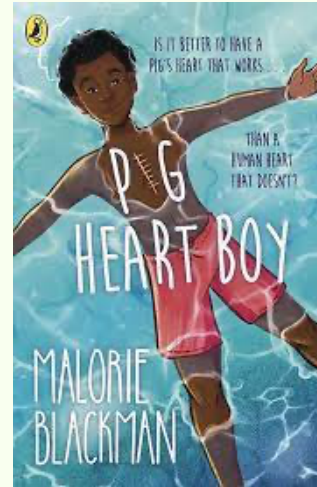


Careers in Biology (Human body) X

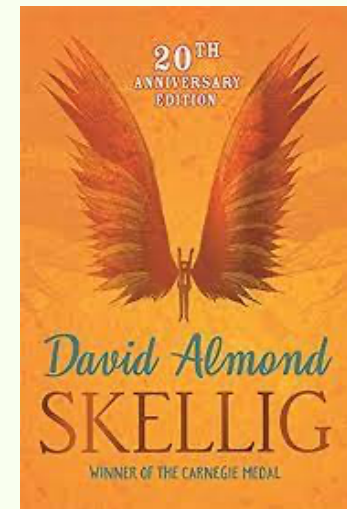
A **cardiology physician** finds, treats and prevents diseases related to the cardiovascular system.

Sports nutritionists help athletes develop strategies to eat well.

Read me!



Pig-Heart Boy by Malorie Blackman.



Skellig by David Almond.