



Preston Primary School Knowledge Organiser

Communication

Critical-Thinking

Collaboration

Creativity

Topic: Science

Term: Spring 2 and Summer 1

Year: 5/6

Duration: 11 weeks

The Powerful Knowledge we will take away from this Learning Enquiry (what I will be learning):

Question: Why is it important to look after our bodies?

- I can Identify and name the main parts of the human circulatory system.
- I can explain the functions of the heart, blood vessels and blood.
- I can recognise the impact of diet, exercise, drugs, and lifestyle on the way the body functions.
- Describe the ways in which nutrients and water are transported within animals, including humans.

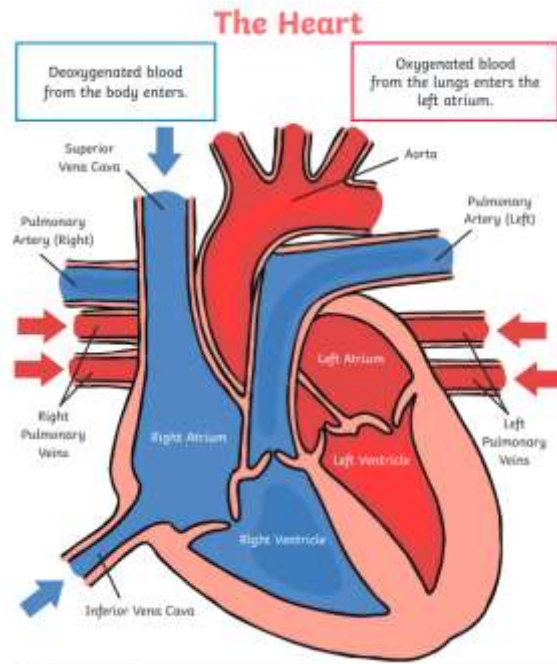
Our Key Vocabulary:

Word	Meaning
Circulatory System	A system which includes the heart, veins, arteries, and blood transporting substances around the body.
Heart	An organ which constantly pumps blood around the circulatory system.
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.
Oxygenated blood	Oxygenated blood has more oxygen. It is pumped from the heart to the rest of the body.
Deoxygenated blood	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 effects your body when it enters your system.
Alcohol	A drug produced from grains, fruits, or vegetables when they are put through a process called fermentation.
Nutrients	Substances that animals need to stay alive and healthy.

What I Already Know:

- In Unit 3, we learnt about the simple functions of the digestive system in humans, identified the different types of teeth in humans and their simple functions, and explored food chains.
- Earlier this year, we explored the changes to human develop from birth to old age and the gestation of different animals.

Labelled diagram of the Heart.



Why should we exercise regularly?

- Strengthens muscles including the heart muscle.
- Improves circulation.
- Increases the amount of oxygen around the body.
- Releases brain chemicals which help you feel calm and relaxed.
- Helps you sleep more easily.
- Strengthens bones.
- It can even help to stop us from getting ill.

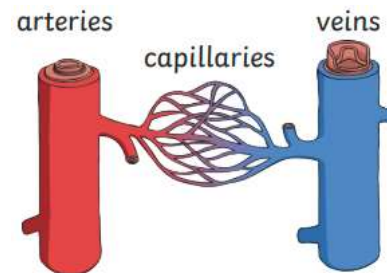


Famous Scientist:

William Harvey (1578 – 1657) Discovered the circulatory system.

http://www.bbc.co.uk/history/historic_figures/harvey_william.shtml

Labelled diagram of the Heart.



Arteries carry oxygenated blood away from the heart.

Veins carry deoxygenated blood towards the heart.