

The Hermitage School – Parent Topic Information

Science

Year: 6

Strand: Biology

What should I already know?

- The functions of the basic organs within the digestive system.

What will I know by the end?

- The circulatory system is made up of the heart, lungs and blood vessels.
- Arteries carry the oxygenated blood from the heart to the rest of the body.
- Veins carry deoxygenated blood from the body to the heart.
- Nutrients, oxygen and carbon dioxide are exchanged via the capillaries.
- The blood is made up of red blood cells, white blood cells, plasma and platelets.
- The nutrients needed for humans to grow are protein, carbohydrate, fats, dairy, fruit and vegetables.
- Nutrients are transported around the body by the blood stream.
- Absorption occurs in the intestines via the villi.

Vocabulary

absorption – the process by which one thing takes in another

arteries - any of the muscular-walled tubes forming part of the circulation system by which blood is transported around the body

blood vessels - a tubular structure carrying blood through the tissues and organs

capillaries – thin branching blood vessels

circulatory system – the system which circulates blood around the body

heart – the central organ in the circulatory system that pumps body around the body

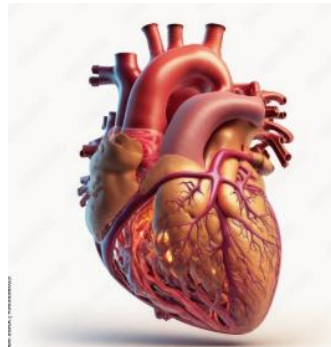
lungs - the pair of organs that allow oxygen to pass into the blood and carbon dioxide be removed

oxygen – a colourless, odourless gas, essential for supporting life

plasma – the colourless part of blood in which fats are suspended

platelets - a small colourless disc-shaped cell fragment without a nucleus, found in large numbers in blood and involved in clotting.

veins - any of the tubes forming part of the blood circulation system of the body, carrying in most cases oxygen-depleted blood towards the heart.



Skill and Enquiry

- To take measurements over a period of time, questioning accuracy and drawing conclusions from those measurements.
- To record data and results.
- To describe causal relationships and draw conclusions from experiments.
- To raise questions about the effect different stimuli have upon the heart.