

Summer 1 – Blood Heart!

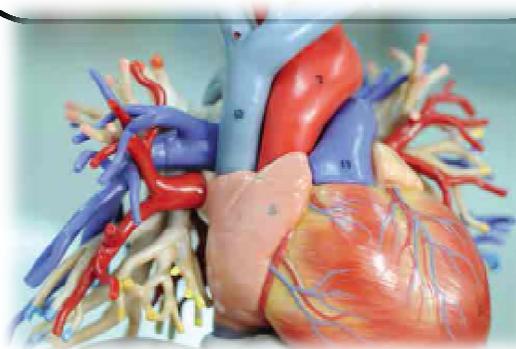
Science

Our Science learning this term encompasses the answers to all of the following questions;

1. What is the Circulatory System?
2. What role does the Heart play in the Circulatory System? How does the Heart work?
3. What is blood? (Blood types – brief history of Karl Landsteiner) How does the body make blood? (bone marrow) What is in blood? (red and white blood cells/platelets/plasma) – What is plasma?
4. How does blood help to protect me? (white blood cells – granulocytes, lymphocytes and monocytes) What is a scab? (platelets)
5. What role do the Lungs play in the Circulatory System? How do the Lungs work? (trachea/bronchiole/alveoli)
6. How does our blood help us with breathing? (red blood cells)
7. How can we keep our Lungs healthy? (The effect of smoking)
8. How can we keep our Heart healthy? (The effect of exercise)

Memorable experience.

Crimson, scarlet, burgundy, cherry...blood flows through our bodies in all its vibrant shades of red. Let's explore our circulation system! Now surgeons, don't be squeamish as we dissect an animal heart and examine the veins, arteries and chambers up close! They all work hard to move the blood around our bodies!



Innovate!

Did you know that in the UK, more people die from coronary heart disease than anything else? The British Heart Foundation is one of a number of charities that encourage people to get involved and raise money to help fight this terrible disease. What could you do to raise money for a heart charity? Could you do something active? Or perhaps design a new advertising campaign? Hold a fundraising Skipathon to raise money for the British Heart Foundation or another heart charity.

Literacy

Explore Explanation Texts or Non-Chronological reports related to the Circulatory System using vocabulary such as heart, lungs, blood, oxygenated, deoxygenated, vessels, valves, ventricles etc learnt in the Science lessons. Create glossaries of words to use in word banks and explore common features of Explanation Texts and Non-Chronological reports such as Headings, Subheadings, Facts, along with differences in the use of formal/informal language.

In addition to this, children will write a Persuasive Leaflet, persuading you to sponsor them in a Skipathon, raising money for the British Heart Foundation! After all our Science work will prove just how important it is to keep our heart healthy!

RE/PSHE

Beliefs and Moral Values

Does belief in Akhirah help Muslims to lead better lives?

PE

The children will learn the skills of the team game Football, exploring how to control a ball and use skills of communication, pace and agility.

They will also explore the adventurous activity of orienteering, using Maths in a cross curricular fashion to explore directional language.

History

Although this is a Science based project, the children will research the work of Karl Landsteiner who created the ABO blood group system. They will use Computing research skills in order to find information from internet research sites.