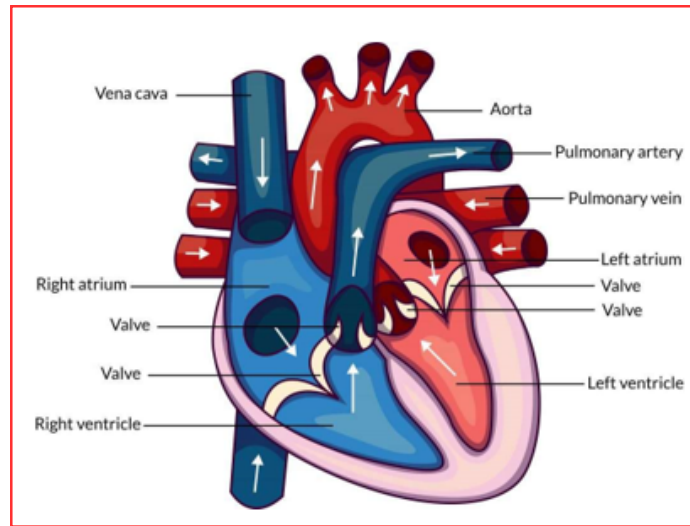
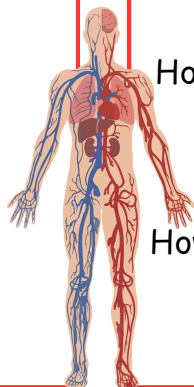




# A HEARTY TOPIC

## Key Vocabulary

valves  
 ventricle  
 atrium  
 vessel  
 circulatory system  
 vessel  
 capillary  
 vein  
 artery  
 blood  
 plasma  
 red blood cell  
 white blood cell  
 platelet  
 diffusion  
 osmosis  
 concentration  
 nutrient  
 BPM - beats per minute  
 heart rate/pulse  
 painkiller  
 drug  
 hallucinogen  
 stimulant  
 depressant



## Key Questions

What is the circulatory system and how does it work?

How do nutrients get transported around the body?

Why does our heart rate change?

How do the things we put in our body change how our body works and functions?

Are drugs bad?

## Key Knowledge

The heart has 2 ventricles and 2 atriums.

Blood can be oxygenated or deoxygenated.

Arteries take blood away from the heart.

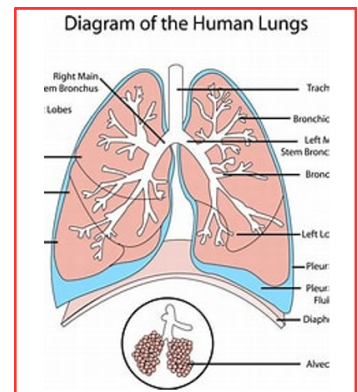
Veins take blood back to the heart.

Blood is made of red blood cells, white blood cells, plasma and platelets.

Nutrients are absorbed into the blood and shared throughout the body.

Your pulse (heart rate) is how many beats your heart takes per minute.

Drugs can be harmful or helpful.



**This term, we are reading:**



**Writing**

This term, Otters will be completing both non-fiction and fiction pieces of writing. Our non-fiction piece will be a non-chronological report on what our blood is made of with the fictional piece of writing being a narrative. In both pieces we will be focusing on tone and purpose making sure to stretch our vocabulary and use a wide variety of sentence structures effectively.

**Maths**

This term in maths we will be completing various geometry units including reflection and translation as well as measuring and calculating angles. We will also be continuing our arithmetic practice making sure we can answer calculations including the 4 operations consistently and quickly as these skills are the foundations for all maths.

**Geography**

Our Geography unit for this term is titled 'where does our energy come from. We will investigate how different types of renewable and non-renewable energy are harnessed and assess their positive and negative impacts on our environment. Throughout the unit, we will make links to how this energy is harnessed shared throughout the world, similar to how the circulatory system shares energy efficiently around our body.

**RE**

Our topic this term is titled 'Why do Hindus want to be good?' This unit covers key Hindu concepts about life, death and rebirth. Children will have the opportunity focus on different views about life after death and make comparisons to other religions.

**Art and Design/DT**

This term, the children will be developing their skills in both drawing and crafting a accurate representation of a human heart. We will be looking at a variety of scientific diagrams of a heart, practicing various sketching skills, then encouraging children to recreate a sketch that inspires them in their own, personal style.

**PSHE**

Otters topic for PSHE this term is 'Keeping Safe'. We will discuss various topics such as drugs, alcohol and online safety while pose hard hitting questions for the children to discuss where there is no definitive right or wrong answer. Alongside this, we will discuss the laws involved with the topics mentioned above.

**Computing**

**Music**

