

## **Blood Vessels, Mock SATs and Parent's Evening**

Year 6 have worked incredibly hard this week in their final run of practice SATs. They sat the 2022 papers and their hard work is paying off. Just like we did at the end of last half term, for every point they have increased in each paper, they have received a raffle ticket – a lot have been given out. The year 6 team have bought a selection of prizes along with the top prize of a £20 gift voucher. We will be holding a special year 6 assembly for them next week where we will do the draw. This is the least they deserve to celebrate all their hard work!

In Science, the children looked at the function of blood vessels. They learnt that oxygenated blood flows away from the heart through the arteries, veins the carry blood back towards the heart and the capillaries (the smallest blood vessels) connect the arteries and the veins together. They added all information to their Science double page spreads. The information and creative is very impressive on their final pieces of work.

In art, year 6 recapped their sketching and shading skills. They then used these techniques to sketch they would like their final Japanese Komainu sculpture to look. They attempted these multiple times at different angles with comments providing information about sturdiness, texture, materials and proportion.

In RE, year 6 recapped Humanism. They then research Francesco Petrarca, one of the first know Humanists and how followers of Humanism have adapted since. They learnt that Humanists believe: every human should be treated with respect and allowed to have dignity; if all people act with respect for others, then people will live in peace and trust; people should all be able to decide how they want to live their lives; people should use reasoning to make decisions and solve problems; humanists decide what choices are good by whether those choices will help make human life and the world around them better.

Friday 10<sup>th</sup> March 2023

LO: To know and understand the function of the lungs and the role of the blood vessels.

Success Criteria:  
 1. I can identify why the lungs are important.  
 2. I can explain what the lungs do.  
 3. I can accurately label a diagram of the lungs.

Animals Including Humans  
 Supported Independent Deep

**Blood vessels**  
 Did you know when you blush your blood vessels actually begin to expand in size?  
 Fact: The heart is the most vital organ in your body.

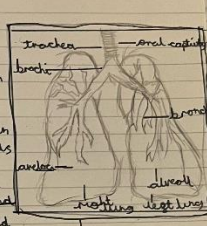
The heart pumps fresh blood through the body in order for it to stay alive.  
 Fact: Blood vessels are 6L and can stretch 2.5 times around the globe.  
 According to what the heart pumps 100,000 times per day and 350,000 per year!

Did you know the Aortic aorta pump out 2.50000 times per year!  
 Capillaries deliver oxygen and dump carbon dioxide.  
 How does it work? The heart pumps 2000 gallons of blood daily but this doesn't just happen. In order for the heart to pump the deoxygenated blood to enter the heart and pass through the right ventricle then after the blood travels to the tricuspid valve then travels to the pulmonary artery and then gives the blood to the lungs in order to get oxygen. Then travels back to the heart.

**The Lungs**  
 The cycle of the lungs is! As soon as you inhale (breathe in) the intercostal muscles begin to contract, the diaphragm located just underneath the lungs and pulls the oxygen down. The chest then expands as the lungs increase, the air then begins to enter the lungs. Then the diaphragm and the intercostal muscles located in the diaphragm relax. After all these steps you finally exhale and all the oxygen enters the lungs and is transformed into carbon dioxide.

**Blood Vessels**  
 The blood vessels which are active dynamic organs, deliver oxygen and nutrients to cells in your body, and also are a part of maintaining blood pressure.

Did you know the Capillaries is the smallest blood vessel?  
 Did you know you breathe over 20,000 times per day?  
 Did you know internal bleeding from the blood vessels causes bruise.



Wednesday 8<sup>th</sup> March 2023

LO: To know and understand the function of the lungs and the role of the blood vessels and how they work within the circulating system.

Success Criteria:  
 1. I can identify why the lungs are important.  
 2. I can explain what the lungs do.  
 3. I can accurately label a diagram of the lungs.

Animals Including Humans  
 Supported Independent Deep

# THE HEART AND THE LUNGS

When we inhale the intercostal muscles contract and the diaphragm pulls down causing it to expand.  
 Your lungs are the pair of spongy pinkish grey organs in your chest.  
 When we inhale the intercostal muscles contract and the diaphragm pulls down causing it to expand.

The heart is one of the most important organs. Un-oxygenated blood enters the heart and gets pumped into the lungs, and becomes oxygenated blood causing it to get sent into the lungs.

**Heart Facts!**  
 Your heart beats over 100,000 times per day.  
 Your heart pumps around 15 gallons of blood every minute.  
 The heart can continue beating even when it's disconnected from the body.

**Lung Facts!**  
 The lungs are the only organ that can float on water.  
 Your left and right lung aren't the same.  
 An average person breathes in around 11,800 litres of air every day.

Blood vessels are a very important part of the body, but the three main parts are veins, capillaries and arteries. Oxygenated blood flows away from the heart through the arteries, then the veins carrying it to the heart.

