

How healthy is your heart?

Key Question: What can an adult within the school do to improve their heart health?

For our first science experience, the class will be learning all about the human circulatory system and the importance of heart health. To do this they will perform a science investigation based on some of the adults within the school and see how healthy their current lifestyles are and what they could do to improve this. By the end of the experience, the class will feedback on their results (including data they have collected and presented in excel) in the form of a non-chronological report.

Hook: Dissection of a pigs heart

Start date: 26/9/22

End date: 14/10/22

Science: In science, the class will begin by learning all the components of the human circulatory system and their function as well as how water and nutrients are transported through the human body. Following this, we will move on to looking at what happens to the body as humans age and what impact lifestyle, drugs and diet can have on this.

Computing: Using ICT we will be learning how to present and organise data within excel. We will also be learning skills such as using a formula and macros.

English: To create our non-chronological report the class will learn how to write up a scientific investigation presenting their data using devices such as colons, subtitles, bullet points and annotated diagrams.

Outcome: A non-chronological report detailing the findings of their investigation. The report will include tables and graphs they have made by entering data into excel. The report will also include our thinking tool: a Gant chart.

<u>Vocabulary:</u>	Merge	Pulmonary
Cell	Macros	Aorta
Column	Artery	Oxygen
Row	Veins	Carbon
Formatting	Atrium	dioxide
Worksheet	Superior	
Data	Inferior	
Formulae	Vena cava	
Filter	Ventricle	

Thinking tool:

We will be learning how to create a Gant chart. A Gant chart is a tool used for strategic planning. They will use the Gant chart as a tool to help show the adult in their study what they can do to improve their heart health.

Effective Communication:

We will be interviewing adults about their lifestyles and health, so we will be focusing on attentive listening. The class will need to show skills such as using questions for clarification and responding to what someone has said with relevant and open-ended questions.

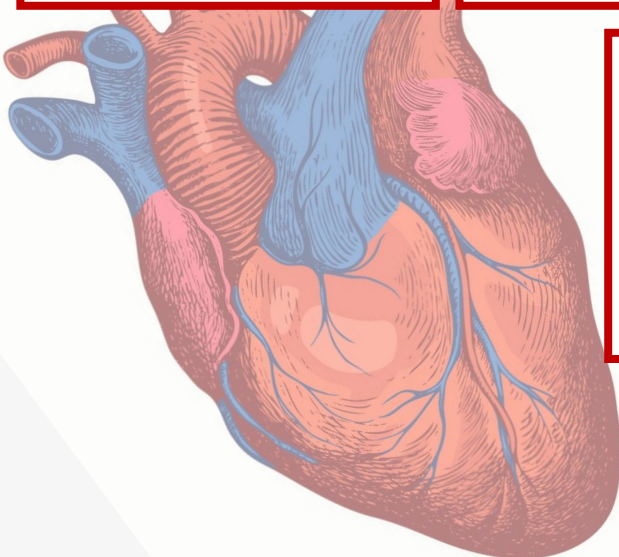
Take home task:

We are looking at the human heart and circulatory system but for their home learning we would like the class to do some research into the hearts of other animals and how it compares to ours. For example did you know worms have 5 hearts! They will need to create a fact file to share the information with the rest of the class.

Due: 10/10/22

Links to Rights Respecting: Article 24

Every child has the right to good health and health care



Knowledge:

By the end of the experience, the children will be expected to:

How to use formatting skills including font, alignment and text wrapping

How to use multiple worksheets

How to use a formulae

How to make and choose an appropriate graph

How to use macros to navigate between sheets

How to sort and filter information

The names and functions of the different parts of the circulatory system

How water and nutrients are transported within animals and humans

How humans change as they age

The impact of diet, exercise, drugs and lifestyle have on the body

How to organise and present data in a non-chronological report.

How we evaluate:

The children will be assessed against the learning objectives taught. We use the stages know, show and grow to support the assessments. If a child is able to 'show' that they have achieved the objective, they will be judged as working at the expected level. If the child has shown they have reached the 'grow' stage of their learning and are able to independently apply their knowledge to a new challenging situation, then they will be considered as working at a 'greater depth'. Children who are assessed as not meeting the objective, will be given extra support to enable them to reach the expected level.

Throughout the experience, the children will be encouraged to reflect on their own learning and will set themselves challenging targets.

