

Hook:

Dissect sheep heart and identify the major blood vessels (get consent from parents)



Blood Heart

Focus: Science / DT



Knowledge:

What are the main parts of the circulation system?
What causes heart rate to increase and decrease?
What are the different components that make up blood? What are the main roles of these?
What are the names of the different parts of the heart?
What are the different types of blood vessels?
How do drugs and alcohol affect the body?
What is the job of blood?
How is it moved around the body?
Which words show that the food is healthy?
How can we create a healthy meal?
How do you know that it is healthy?

Learning Journey: Heart

Identify the main parts of the human circulatory system— label a diagram and write short paragraphs to describe the structure and functions of each component.
Label a diagram of the main parts of the heart—create non-chronological report
Investigate how the heart rate accelerates and decelerates under different conditions—record findings

Learning Journey: Blood

20 minutes to find out as much about blood as possible and present to the class creatively.
Examine an artificial blood sample to find out about what each of the layers are and describe the main components and what they do.

Learning Journey: Circulation System

Find out about the different types of blood vessels and the job they do. Taking oxygenated blood, nutrients and water to different parts of the body - create stop motion animation to show this.

Learning Journey: Healthy heart

Finds out how smoking, alcohol and drugs can affect the body—annotate a life sized diagram of a person with warnings and information No smoking adverts.

Vocabulary:

Heart	Plasma
Chamber	White and red blood cells
Aorta	Circulation
Vena cava	Accelerate
Blood vessels	Decelerate
Atria	Healthy
Ventricles	Nutrition
Vales	Design
Arteries	Make
Veins	Evaluate
Capillaries	

Characteristic foci:

Skills:

- Record data and results of increasing complexity
- Drawing accurate diagrams
- Investigate
- Work scientifically
- Draw graphs
- Follow a recipe
- Use a range of cooking techniques
- Design packaging
- Explain the effectiveness
- Evaluate product and packaging

Curriculum Coverage:

identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood ☑ recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function ☑ describe the ways in which nutrients and water are transported within animals, including humans.
understand and apply the principles of a healthy and varied diet ☑ prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques
use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular

Learning Journey:

Look at a range of packaging for foods that claim to have health benefits and identify the types of words/phrases used to persuade customers to buy and discuss effectiveness.
Choose and create a heart-healthy meal from BHF website . Design , make and evaluate packaging - computer aided design.

Trip / Visitor:

Display Plan:

Display recipes and foods

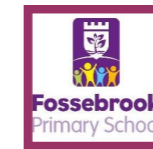
Outcome:

Bake off style technical challenge— children presented with a tray of ingredients and have too make a heart healthy meal.



Blood Heart

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What do they already know?

Year 1

- What are the five senses?
- Which body part links with each sense?
- How do we keep ourselves safe?
- Can you name different parts of the body?

- What is a food chain?
- What does a plant need to grow and stay healthy?
- What do humans and animals need to survive?
- What is a habitat?
- What is a micro-habitat?
- Why do different animals need different habitats?

- What is the life cycle of a mammal/ amphibian/ insect /birds?
- How do plants reproduce?
- What is the lifecycle of a plant?
- What is the name of the reproductive organs in plants?

Year 2

- What is a food chain?
- What does a plant need to grow and stay healthy?
- What do humans and animals need to survive?
- What is a habitat?
- What is a micro-habitat?
- Why do different animals need different habitats?
- What is offspring?
- Where do animals get their food from?

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- Where do animals get their food from?

Year 3

- Where do animals (including humans) get their food from?
- What is a skeleton? - What are the main functions of the skeleton?
- What is a muscle?
- What are the main functions of the muscles?

What is seasonality?
 : Where does food come from?
 : What is savoury and sweet?
 : What countries to certain foods come from?
 Where about in the UK do food come from?
 What can affect where and when food can grow?
 What are different cooking techniques?
 Which is the healthiest?

Year 4

- What are the basic parts of the digestive system?
- What are the functions of the digestive system?
- What are the different types of teeth in humans?
- What are the teeth's functions?
- What is a food chain?
- What are the producers, predators and prey in food chains?

Year 5

- How to people change as they get older?
- What happens to girls during puberty?
- What happens to boys during puberty?
- How do humans grow?
- What is the gestation period of human/elephant/dog etc...?

How will they remember it?

Mini Quizzes

Add to Kaboom pot

Reading texts around the subject (links to English / GR)

Display

Memorable experiments with clear conclusions

Which resources will I need?

- Lamb heart
- Food ingredients
- Ipads for stop motion
- Stopwatches

What do I need to know to be able to teach this?

- How the heart works
- Functions of the human body
- Layers of blood
- BHF recipes