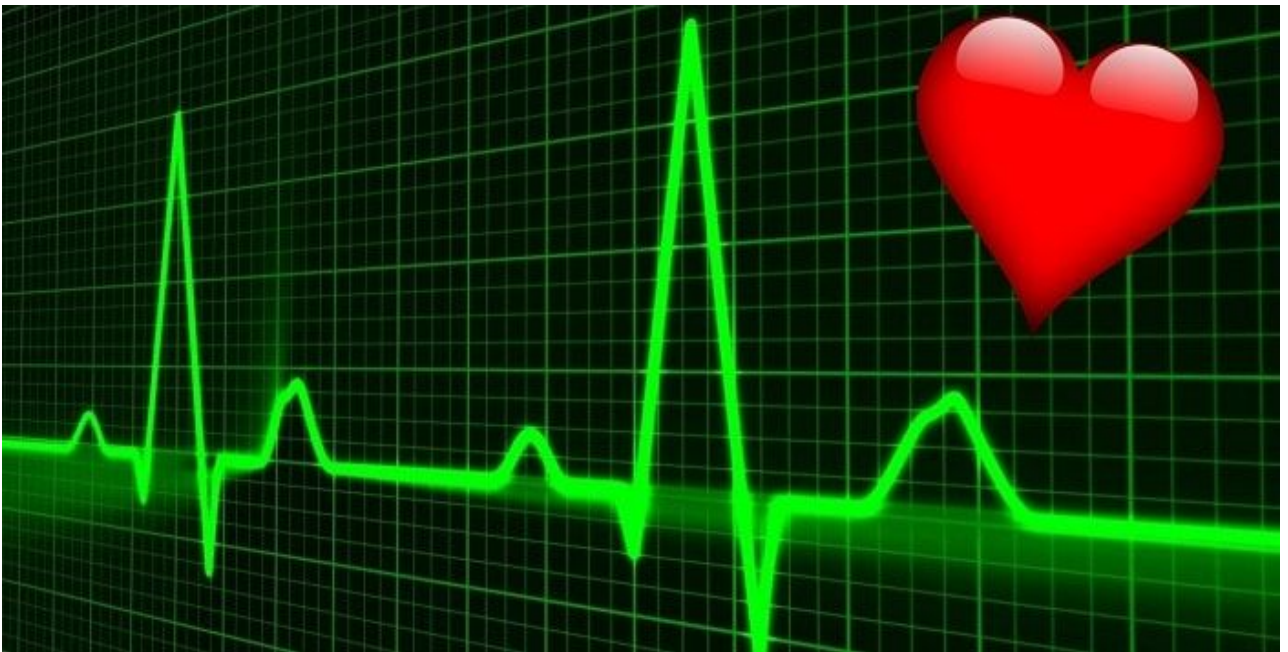


Year 6 Summer 1 In a heartbeat

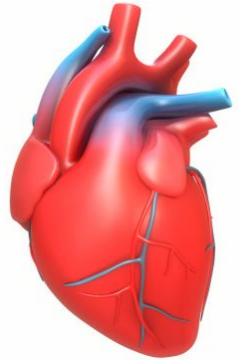


Curriculum Driver: Science

Create Explore Discover

Year 6

Summer 1– In a heartbeat



Key Curriculum Driver: Science

Other Curriculum Areas: PSHE/ ICT

Rationale: “This topic will really get your blood pumping!”

‘In a heartbeat’ will take us on a journey through the human circulatory system. We will learn all about the different components of blood and become mini cardiologists as we study the workings of the human heart. We will gain an understanding of the ‘double pumps system’ and also how to live a healthy lifestyle. We will even create a pie chart showing the percentage of each component by volume in a typical sample of blood.

By the end of this topic, most children will:

- * Be able to identify and name the main parts of the human circulatory system
- * Confidently recognise and describe components of blood and their respective functions.
- * Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function
- * Understand how drugs impact on the body and that certain drugs can be used for positive effect in the form of medicine.
- * Select, use and combine a variety of software on a range of digital devices to collect, analyse and present data and information.
- * Know the importance of physical activity and diet for a healthy lifestyle.
- * Accurately describe the functions of the heart, blood vessels and blood.



Children’s knowledge will be shown by:

Extended Writing:

Non-chronological reports
Persuasive adverts
Narrative

Purposeful Outcome – Added by class teachers after completing topic web.

Topic Overview

Topic Hook

Pupils will have the chance to dissect a sheep's heart as part and will learn first hand about the four chambers of the heart and the different blood vessels that lead to and from the heart

In a heartbeat

Curriculum Driver: Science

Topic Outcome

Children will have gained extensive scientific knowledge into the human circulatory system and heart health . It will develop children's knowledge of the makeup of blood and significant medical discoveries.

Coverage (Main Focus)

- Learn about what happens to the heart when we exercise, then conduct practical investigations where heart rate is measured
- Detail the functions of the heart, lungs and circulatory system, (draw and label diagrams)
- Perform a heart dissection to study its internal structure.
- Investigate the different food groups and plan/ make a healthy meal
- Construct a model of the human heart showing its components
- Creating healthy living persuasive poster. Who is it aimed at? What is it ? What purpose does it serve?
- Use drama to re-inact the the 'double pumps' circulatory system.

Free Writing Stimulus

Write a healthy recipe-
Research what foods constitute a balanced diet to create a healthy meal.

A postcard in role of a blood cell to explain it's journey through the circulatory system

Extended Writing Genres and Activities

Non Chronological report-
How does the heart work?

Persuasive advert into keeping healthy and the importance of a healthy lifestyle.

Trips and Experiences

Now press play-
drama activity.

Bramley Baths talk on keeping healthy/ first aid

Ambulance visit

Heart dissection

Other subject Coverage

DT- Make a model of the human heart and the 'blood in a bottle' challenge

Art- The heart sketches

Maths- Statistics- Plot pie charts and graphs to show the makeup of blood.

PE- Plan an effective keep fit workout for children in KS1

Science- Investigate the effect of exercise in the body

ICT- Research the work of The British Heart Foundation and create an informative powerpoint

PSHE- Consider the effects of lifestyle including eating, smoking and drugs on the body.

DT- Make a healthy/ balanced meal

Linked Texts

