Year Six Newsletter: Spring 2 2020

A hearty welcome to Spring Term 2! We kick off this half term with our science topic, investigating the human body, including our circulatory system. We will be learning how to look after our health and how our bodies change over time. To support our learning, we will be fundraising with a sponsored 5K Run, Skip, Hop, Jump. As well as our topic work across the curriculum, we are also looking forward to World Book Day which takes place this half term.
As ever, we have a packed schedule over the next few weeks and we are really looking forward to sharing this learning with you at the parent consultations (see dates below). We will also be welcoming Mr Matthews, a teacher training student who will be joining us in the last two weeks of the half term.
Further details of all the activities mentioned will follow. In the meantime, if you have any queries or suggestions please don't hesitate to call us.
Mr Evans, Miss Walton and Miss Hayden

Alive & Kicking!	**Important Dates:**
	28.2.20 – Learning Log Exhibition 6.3.20 – World Book Day celebration 9.3.20 – Science Week 12.3.20 – Road Safety Session 18.3.20 and 19.3.20 – Parent Consultations 27.3.20 – Online Safety Session 31.3.20 – Key Stage Two Assessment Information Evening

Homework	**Learning Log**	**PE Days**
Due every Friday: Spelling rule revision SATs Companion – set tasks and any practice	We will be holding a Learning Log Exhibition where children will present their projects to the class.	Thursday – Outdoor 5k training Friday – Indoors Circuit Training

Curriculum

English	Maths	Science
Children will apply their comprehension skills of retrieval, language and summarising to create a scientific explanation of how their heart and the circulatory system works. We will then read *Room 13* by Tom Swindells and use figurative devices and sentence structure to create tension and suspense. Finally, children will write their own radio advertisement script to persuade their audience to give blood. They will perform this in 'The Voice' competition to measure the effectiveness of their writing on the judges who will turn if their heart-strings are pulled!	<u>Measure</u> - Use, read, write between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation. <u>Area and perimeter</u> - Calculate and compare the area of rectangles(including squares), and including using standard units, square centimetres(cm2) and square meters (m2) and estimate the area of irregular shapes. <u>Ratio</u> - Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.	In addition to studying famous women in science during Science Week, children will be taught: To identify the components of blood, describe their functions, and note the different blood groups. To note and name the three types of blood vessel To explore and demonstrate how the circulatory system works including the role of the heart To explore the structure and function of the human heart
Humanities	**Art/DT**	**PSHE**
Children will be taught about the Great British Scientist Alexander Flemming and his famous discoveries. They will plan an investigation considering the variables and measurements taken.	We will be exploring how to sketch anatomical drawings of parts of the human body, including the heart and the circulatory system. They will be taught to show life-like qualities and real-life proportions and make more abstract, provoking different interpretations	Children will take part in 3 mindfulness and meditation sessions during the half term to support our learning on healthy minds and bodies. In addition, we also have road safety and online safety sessions planned (see dates above).

Teaching Team	Support Team
Mr C Evans – Deputy Headteacher – Alan Turing Miss E Walton – Alan Turing Miss R Hayden – Katherine Johnson Mrs S Powell – Reading tuition Madame Thakker – Francais Mrs N Littlewood – PE	Mr A Feather – HLTA Mrs L Hodgson – Teaching Assistant Mr A Hussain – Teaching Support Apprentice
Reading Tuition Group – Mondays, 3.20-4.15	Maths Tuition Group – Wednesdays, 08.00-08.50
Contact Mr Evans for a place at one of our Tuition Groups	

Year Six Knowledge Organiser- We are Alive and Kicking

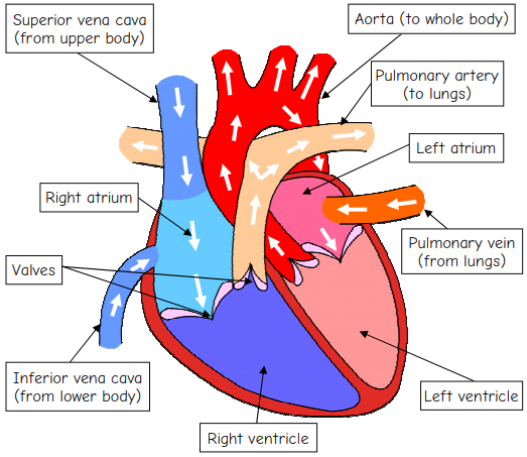
Science

What should I already know?

- Understand the impact that nutrition and lifestyle can have on humans
- Describe the simple functions of the basic parts of the human body.

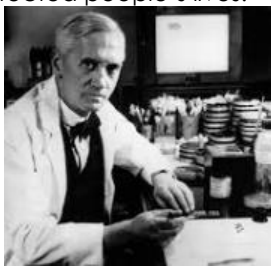
Skills and knowledge I will develop this half term:

- 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
- Plan scientific enquiries to answer your own questions.
- Use using a range of scientific equipment, with increasing accuracy and precision to record data.
- Use scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs
- Use test results to make predictions to set up further comparative and fair tests
- Report and present findings from enquiries, including conclusions in bot h oral and written forms.



Vocabulary	
Arteries	Muscular-walled tubes that transport blood from the heart to other parts of the body.
Blood	Red liquid that circulates in arteries and veins, carrying oxygen to and carbon dioxide from tissues of the body.
Blood Vessel	A tubular structure carrying blood through the tissues and organs.
Bones	Hard whitish tissue making up the skeleton in humans and other vertebrates.
Capillaries	Tiny blood vessels that connect the smallest arteries (arterioles) to the smallest veins
Circulatory System	The system that circulates blood through the body, including the heart, blood vessels and blood .
Heart	A hollow muscular organ that pumps the blood through the circulatory system
Homeostasis	The ability to maintain a constant internal environment in response to environmental changes.
Lungs	Pair of organs situated within the ribcage where oxygen can pass into the blood and carbon dioxide be removed.
Muscle	A band or bundle of fibrous tissues that have the ability to contract, producing movement in or maintaining positions of parts of the body.
Nutrients	A substance that provides nourishment essential for the maintenance of life and for growth.
Organs	Part of an organism that is typically self-contained and has a specific vital function (e.g. the heart and lungs).
Penicillin	The most famous of all antibiotics, named for the fungal mold Penicillium notatum from which it is derived.
Plasma	The liquid portion of blood. Plasma helps to distribute heat throughout the body and to maintain homeostasis, or biological stability.
Platelets	An irregular, disc-shaped element in the blood that assists in blood clotting.
Veins	Tubes forming part of the blood circulation system of the body, carrying mainly oxygen-depleted blood towards the heart.
Vitamins	Organic compounds essential for normal growth and nutrition.

Year Six Knowledge Organiser- We are Alive and Kicking

Topic Overview			
Science	History	PE	PSHE
Explore the functions of blood and blood vessels. Identify the main parts of the human circulatory system and explain their functions. Explain in detail how the human heart works. Investigate the effect of exercise on heart rate. I can calculate how much alcohol is in different alcoholic beverages. I can describe and explain the effects our lifestyle, diet and exercise can affect our body weight. Research the preferred forms of exercise in our class. 	To learn about who Alexander Fleming was and his discovery of penicillin. Learn how antibiotics work. Discuss the impact that the discovery of penicillin has had. Learn about how discoveries like this have changed science, medicine and affected people's lives.  To understand the process Fleming went through once he had noticed the reduced bacterial growth around the mould. Question and challenge the process followed by Fleming. Study the different pieces of equipment that Fleming was likely to have used in comparison to what might be used today.	 Explore and try different training methods to prepare for the Sponsored 5K challenge. Set targets and accurately measure your own improved fitness. Explore the methods the school and wider environment try to support children in having a healthy and active lifestyle.	British Heart Foundation campaign to persuade people to give blood and help others in need. Explore different ways of supporting charities, through sponsorship, fundraisers and regular donations. Decide upon your own method to raise money for the Class' chosen charity. British Heart Foundation