



## Year 6 Spring 1

### Knowledge Organiser



**Science** This half term, we will learn about the circulatory system in the human body. We will also look at the impact of diet, exercise, drugs and lifestyle on the way our bodies function.

#### **Key Knowledge**

The heart pumps blood in the blood vessels around to the lungs.

Oxygen goes into the blood and carbon dioxide is removed.

The blood goes back to the heart and is then pumped around the body.

Nutrients, water and oxygen are transported in the blood to the muscles and other parts of the body where they are needed. As they are used, they produce carbon dioxide and other waste products.

Carbon dioxide is carried by the blood back to the heart and then the cycle starts again as it is transported back to the lungs to be removed from the body.

This is the human circulatory system.

#### **Key Vocabulary**

Heart

Pulse

Blood

Blood vessels

Transported

Lungs

Oxygen

Carbon dioxide

Nutrients

Cycle

Circulatory system

Diet

Exercise

Drugs

Lifestyle

**Computing** We will learn about text adventures in our digital literacy unit this half term.

#### **Key Knowledge**

A text-based adventure is a type of game that uses text instead of graphics. It will give the player a lot of options about what to do next.

A sprite is a computer graphic which may be programmed to move on screen.

Debug/debugging is when you are fixing errors so that the code will run correctly.

When 'selection' is used the program will choose a different outcome.

#### **Key Vocabulary**

Text adventure

Sprite

Debug

Selection

Function

**Music** We will explore some film music this half term as we learn about major and minor key signatures and the effects that are created by composers.

#### **Key Knowledge**

Film soundtrack includes the background music and any songs in a film.

'Major' key signatures use note pitches that sound cheerful and upbeat.

'Minor' key signatures use note pitches that can suggest sadness and tension.

'Graphic notation' means writing music down using your choice of pictures or symbols but 'staff notation' means music written more formally on the special lines called 'staves'.

#### **Key Vocabulary**

Accelerando

Unison

Chromatics

Texture

Composition

Crescendo

Sequence

Improvise

Pitch

Dynamics

Major Minor

**Art** This term we will be experimenting with paint. We will explore tints, shades and different tools for desired effects. We will create our own painted responses to a poem by Wordsworth.

### **Key Skills**

We will use different paint techniques to create different effects and textures. (E.g. dry brushing, glazing, stippling, pouring, splattering))

We will independently mix different colours, tints and shades that we need.

We will choose appropriate resources and implements to adapt and extend our work, for example by changing brushes and adding highlights and shadows.

### **Key Vocabulary**

Effects

Textures

Lighter

Darker

Thick/ thin

Tints and shades

Stippling

**PSHE**— We will begin to understand risks associated with money (e.g. money can be won, lost or stolen) and ways of keeping money safe

### **Key Knowledge**

Fraud is when someone tricks someone in order for them to gain their money.

Money can be kept safe in bank accounts which require PINs, verification or signatures to access the money.

Money can be invested yet this needs to be into a stable and reliable source.

### **Key Vocabulary**

Fraud

Betting

security

Accounts

Verification

Savings

Investments

**RE**—Our enquiry question this half term is ‘How does being a Hindu affect what a person does?’

### **Key Knowledge**

Puja is a form of worship.

A Mandir is a holy temple where various forms of worship take place.

The stories of Vishnu, Rama and Sita are significant to Hindus.

Dharma denotes behaviours that Hindus should follow to live their lives well.

The Dharma symbols represent how Hindu Dharma should be present in every aspect of Hindu life.

Diwali is the Hindu festival of light.

Holi is the festival of colours, love and spring.

### **Key Vocabulary**

Puja

Mandir

Vishnu

Rama

Sita

Dharma

Diwali

Holi

### **Other relevant information for this half term**

**English**—This half term, we will read ‘Pig Heart Boy’ by Malorie Blackman and explore the issues raised in the story. We will write an explanation about how the heart works using technical vocabulary, Standard English and varied sentence structures.

**Spelling**— It is vital that children learn the year 5/6 statutory spellings and know the spelling rules associated with these words to apply to new and unfamiliar spellings. We will study these spellings and those with similar spelling rules and letter patterns in both spelling and handwriting lessons.

**Reading**— We cannot stress enough that children need to read and have their reading diaries signed 5 times a week. Children who don't read at home will read in Catch Up Club.

**Maths**— Arithmetic and fluency will continue to be a focus for us this term as we apply our skills to a widening range of reasoning problems. We will look at geometry as well as statistics. Children need to be fast and efficient with their times tables.

**PE**—The focus this half term is gymnastics. Children must have their full PE kits available in school every day.

**French**—We will look at how to read, write and say different sports. We will learn to give our preferences. As always, we will be translating between English and French and vice versa.