



Year 5 Spring 1

Knowledge Organiser



Science Our science topic for the next term is all about properties of materials.

Key Knowledge

- Materials have different uses depending on their properties and state (liquid, solid, gas).
- Properties include electrical and thermal conductivity.
- Some changes to materials such as dissolving, mixing and changes of state are reversible, but some changes such as burning wood, rusting and mixing vinegar with bicarbonate of soda result in the formation of new materials and these are not reversible.

Key Vocabulary

Thermal/electrical
Insulator/conductor
Change of state
Reversible/non-reversible change
Burning
Rusting

Geography—we will be looking at the position and significance of longitude/latitude, the hemisphere and the Tropics.

- Lines of latitude and longitude are measured in degrees and they are used to describe locations.
- Lines of latitude are measured in degrees north and south of the Equator.
- The Equator splits the world into the Northern and Southern hemisphere.

Key Vocabulary

Latitude
Longitude
Tropic of Cancer
Tropic of Capricorn
Northern Hemisphere
Southern Hemisphere

French We will be identifying significant places which can be found in a city centre or local area.

Key Knowledge and Learning

- To say I have in French we use part of the verb to have (avoir) "J'ai..."
- To say I haven't in French we add 'n' and pas. "Je n'ais pas"

Sound spellings:

- Ez
- Ai
- C'est

Phrases children will learn:

- Tu aimes? Do you like?
- J'aime—I like
- Non, je n'ais pas—No, I haven't
- C'est combien? How much is it?

Key Vocabulary

Une pomme- apple
Un oignon- onion
Une mangue- mango
Une poivron- pepper
Une grappe de raisin – a bunch of grapes.
Une pastèque- a watermelon
Une banane- a banana
Une salade- lettuce
Une carotte- a carrot

Art—This half term, we will be focusing on shading and tone.

Key Vocabulary

Shading
Mood/ feeling
Composition
Shading
Cross hatching
Stippling
Circling
Blending

Key Knowledge

Tonal contrast is the difference between tones.

A composition is the arrangement of the different parts of the a picture.

There are many different shading techniques such as cross hatching and stippling.

Shading can create different moods and feelings.

Computing - This half term, we will be using software to control external devices.

Key Vocabulary

Algorithm
Host
Input
Output
Sensor
QR Code
External device

Key Knowledge

- A device can be programmed to be used as a game controller
- An external device could be used as a handset to control a program on the host device.
- An external device could also be used as a sensor to monitor environmental conditions.
- An algorithm is a precise step by step set of instructions used to solve a problem or achieve an objective.
- A QR code is a machine-readable code.

Music We will be completing a composition unit this half term.

Key Vocabulary

Synaesthesia
Dynamics
Holi
Graphic score
Vocal composition

Key Knowledge A vocal composition is a piece of music created only using voices.

Varying effects can be created using only your voice, for example by changing the pitch, dynamic or tempo of the sound made.

Human voices have their own individual timbre, and that this can be adapted by using the voice in different ways.

Other relevant information for this half term

English—This term we will be reading ‘The Last Bear’ and ‘Scott of the Antarctic’, while continuing to focus on our grammar and punctuation.

Spelling—Children need to practice the year 5/6 spelling lists that will be in their homework books. They need to know half of these by the end of year 5.

Reading— Children need to read at home and have their reading diaries signed 4 times a week. Children, who don't read at home, will read in Catch Up Club on a Friday.

Maths—This half term, we will be working in our Power Maths books on with multiplication, division and fractions. Times Table Rock Stars logins are in children's reading diaries.

PE—The focus this term is gymnastics. PE will be on a Tuesday, however this can change from week to week. Children's PE kits should be in school every day.

RE—This half term, the children will be learning all about the religion of Islam. We will be learning about why the Qu'ran is so special to Muslims and how and where Allah is worshipped.

Homework— Homework will be sent home on a Friday to be returned the following Wednesday. Children who do not complete their homework will need to attend Catch Up Club.