



Topic Map: Year 5 Term: Spring 2

Title: The World Around Us



Computing

Children will design and write programs using Purple Mash that accomplish specific goals, including simulating physical systems; solve problems by decomposing them into smaller parts.

They will understand how to create a game/app that is suitable for a given audience and purpose. Be able to explain how their game works to a non-technical person. Make changes to their programme, based on testing and feedback (debugging).

Music

Hip hop

Children will explore the history of rap and hip hop, listen to a variety of tunes cumulating with children writing and creating their own hip hop story.

Geography

Rainforest

In this topic we will be studying rainforests around the world.

We will explore the layers of the rainforest as well as the different animals that live in them.

We will also be looking at the effects of deforestation on the planet as a whole whilst looking at solutions to solving this problem.

R.E

Memorial Sacrifice

In this topic children will concentrate on the signs and symbols that appear in the mass. As well as referring to the parts of scripture that they come from.

Sacrifice

In this topic we will learn about life, especially family life, or life in school and how it is full of opportunities for self-giving.

PE

Volleyball

Pupils will focus on developing the skills they need to play continuous rallies in volleyball. They will learn about the ready position, ball control, sending a ball over a net and how to use these skills to make the game difficult for their opponent.

French

We will be learning to say the names of Chinese foods.

We will be looking at ordering food in restaurants and the different types of cutlery that might be used.

PSHCE - Jigsaw

Healthy Me

This theme is about understanding how to keep ourselves healthy. We will talk about the health risks of smoking and alcohol, our body image and our relationship with food. We will also look at how to put basic emergency aid into practice.

WOW Experiences – Zoom World Book Day

Class Novel/Book – The Diver's Daughter by Patrice Lawrence

English

Poetry

Children will study the work of Ogden Nash, analysing his work for poetic technique and language. They will rehearse and perform parts of his poems as a class before using them as inspiration to create and perform their own poems in his style.

Older Literature

We will use both feature film versions and written stories from 'The Secret Garden' to inspire children to re-write stories in the style of Frances Hodgson Burnett. Children will write a setting description of their own using dialogue, subjunctive form and informal language features.

Creative Writing

Children will read a modelled persuasive text which focuses on the contrary argument. They will then use this text to learn about the structure, tone and literary devices used in persuasive language. Children will consolidate skills from Year 4 such as using facts and statistics, rhetorical questioning and the concise use of powerful verbs.

Mathematics

Area

Pupils will find the perimeter of a polygon constructed from other polygons. They then look at constructing shapes with the same perimeter but a different area. Pupils begin to explore scale diagrams to determine the perimeter of shapes before moving onto exploring area using concrete materials. They will next look at area on square grids. Pupils will be using their understanding of polygons to calculate the area of those that are not 'regular polygons'.

Geometry

Children will explore angles: measuring angles, the investigation of angles on a line/point and drawing angles, before moving onto using angles as a descriptor for common shapes. The chapter ends with pupils solving problems involving angles and investigating angles inside regular polygons.

Position and movement

In this chapter, pupils are exploring position and movement. In the first lesson, they are naming and plotting points on a grid before moving onto the translation of a shape in the second lesson. They are then required to describe the movement of a shape on a grid as the first step in describing reflections. The chapter ends with pupils looking at and describing reflections across a mirror line.

Science

Living Things and Their Habitats

They will be learning about their environment and the dangers it faces. Children will look at the impact that deforestation has on the planet, both globally and in their own local environment. They will collect data on the amount of traffic that passes the school and to measure the CO₂ and pollution. They will also conduct an experiment looking at levels of acidity collected from different water sources; comparing the levels in tap water, bottled water, park water and rain water to see which ones have highest pollution. Lastly, children will consider the impact of global warming, rising sea levels and greenhouse gases and how they can improve the situation by working together.

Working Scientifically

Pupils will work scientifically by: observing and comparing the life cycles of plants and animals in their local environment with other plants and animals around the world (in the rainforest, in the oceans, in desert areas and in prehistoric times), asking pertinent questions and suggesting reasons for similarities and differences. They will try to grow new plants from different parts of the parent plant, for example, seeds, stem and root cuttings, tubers, bulbs. They will also observe changes in an animal over a period of time (for example, by hatching and rearing chicks), comparing how different animals reproduce and grow.