

COMPUTING – Micro:bit

The children will learn how to design and write computer programs that accomplish a specific goal. The children will use the program *Micro:bit* to create different signs and games such as 'scrolling name labels' and a dice to play multiplication games with. The children will use the skills that they learnt in Year 3 when working on *Scratch* to develop their program. They will use logical reasoning to explain how some algorithms are working. They will also have the opportunity to debug and solve problems by detecting and correcting errors in algorithms.

MFL – DAYS OF THE WEEK

The children will learn how to say the different days of the week in French. They will listen to songs, rhymes and play games in order to ensure this new learning is committed to their long-term memory. The children will also learn how to count in French to thirty-one. Once this new learning is secure, the children will be able to recall the day and the date in French. This will be regularly recapped in their written work as the children have the opportunity to broaden their vocabulary in their lessons.

SCIENCE – SOUND/STATES OF MATTER

The children will recognise that the vibrations from sounds travel through a medium to the ear. They will find patterns between the pitch of a sound and the object which produced it. They will drop weights from different heights on a drum to find out patterns between the volume of a sound and the strength of the vibrations that produced it. This will be done with a datalogger. The children will compare and group materials according to whether they are solid, liquids or gases and will develop simple descriptions of the state of matter.

GEOGRAPHY – THE WATER CYCLE

The children will learn the names of mountains and mountain ranges (Ben Nevis, Scafell Pike, Snowdon, Slieve Donard, Grampians, Pennines and Cambrian) in the United Kingdom. They will locate these using maps, atlases and globes. The children will use and apply their understand of rivers and mountains to describe and understand key aspects of the water cycle using the correct geographical language (evaporation, condensation, precipitation and collection). Finally, the children will describe key aspects of our coastline and understand the key role that water has to play in their formation.

The Water Cycle Year 4 - Summer



RE – PILGRIMAGE

The children will further their understanding of what makes a place special or religious. They will learn that a pilgrimage means a special, religious journey. The children will recognise why Bethlehem is a special place of pilgrimage for Christians. Finally, the children will learn more about the pilgrimage to Hajj that is undertaken by thousands of Muslims each year. The children will understand the importance of this journey to Muslims as it shows their dedication to God as well as being a time to pray and remember.

HISTORY – THE VIKINGS

The children will place the Vikings on a timeline and compare its position to the Stone Age, the Roman Empire period and the Anglo-Saxons that were all studied in Year 3. The children will find out more about the Viking raids and how they invaded Britain. They will learn about the fierce struggle that they had with the Anglo-Saxons. Many of these battles were over land that would be used for farming although the Vikings also stole from the homes of Anglo-Saxons. Finally, the children will learn about why neither the Anglo-Saxons or the Vikings continued to rule the country from 1066.

DT – PNEUMATIC SEA CREATURES

The children will recognise how pneumatic systems use air to make things move before creating their own simple, pneumatic mechanisms with bottles and balloons. They will carry out an investigation to test how strong this mechanism is before using this knowledge to research examples of pneumatic systems used in everyday life. Next, they will trial different pneumatic mechanisms such as syringes. They will then apply this knowledge to design and create their own moving sea monster which can be controlled by a pneumatic pump.

MUSIC – SOUL

The children will have further opportunities to be able to repeat a rhythmical pattern from standard notation. They will continue to play rhythmic patterns with an awareness of timbre. The children will listen to a short piece of music and identify certain features such as the use of the dynamics, the change to the dynamics or the change to the tempo. They will learn to sing in unison and in tune with accurate pitch. They will also understand the importance of breathing in order to pronounce the words in the song well.

ART – GREAT WAVE OFF KANAGAWA

The children will appraise a range of artwork by Hokusai before studying *The Great Wave off Kanagawa*. They will discuss the images in the background, middle ground and foreground before experimenting with different mediums to recreate the different sections of the wave. Next, the children will explore Janet Bolton's textile collages related to the seaside. They will sketch and plan their own collage, select different fabrics to represent different parts of their art and practise simple stitching techniques before applying these skills to their own collages.

OUTDOOR PE – SWIMMING

Children will be taking part in swimming lessons each week. Children will work on their skills as well as physical fitness during these sessions. Children will be taught to swim competently, confidently and proficiently over a distance of at least 25 metres. They will be taught to use a variety of strokes such as front crawl, backstroke and breaststroke. They will also consider water safety and perform self-rescue in different water-based situation. They will learn how to pace themselves in floating and swimming challenges related to speed, distance and personal survival.

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RELATIONSHIPS AND HEALTH

The children will understand the practical steps that can be taken to improve or support respectful relationships at home and at school. They will learn the definition of a 'bystander' and their responsibilities. The children will understand what a poor diet means relating it to eating too many calories a day, not eating enough in a day, the diet not being varied in food types, or too much food and drink which is low in fibre and high in fats, salt or sugar.

INDOOR PE – ROLLING

In gymnastics, the children will learn how to rotate and roll on different body parts whilst using different speeds and showing different shapes and sizes. They will create sequences with a partner on the floor and using apparatus using a variety of these movements. They will observe the work of others and learn how to offer constructive feedback. In dance, the children will explore and create movement in response to a snooker game. They will perform more complex dance phrases and learn how to link these together logically and fluently.