

Science - Properties and Changes of Materials

Children will be able to compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity and response to magnets. They will know that some materials will dissolve in liquid to form a solution and describe how to recover a substance from a solution. Year 5 children will use knowledge of solids, liquids and gases to decide how mixture might be separated, including through filtering, sieving and evaporating. Children will be able to give reasons, based on evidence from comparative and fair tests, for particular uses of everyday materials including metals, wood and plastic. They will demonstrate that dissolving and mixing changes of state are reversible changes.

Maths

Children will identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. They will know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers. They will establish whether a number up to 100 is prime and recall prime numbers up to 19. Children will multiply and divide numbers mentally drawing upon known facts and solve number and practical problems that involve place value confidently. They will solve problems using their knowledge of factors and multiples. Children will further develop their understanding of the formal methods and learn to divide numbers up to 4 digits by a one-digit number using the formal written method of short division; they will interpret remainders appropriately for the context.

Religious Education

The importance of Jesus and Moses

Children will learn about the faiths of Judaism and Christianity through beliefs, practises, prayer and reflection. They will understand Passover and Easter and what they have in common. Children will understand the importance of the book of Exodus to Jews.

SPRING 1 Year 5



English

Children will learn about the features of explanation texts, persuasive texts and the different grammatical tenses in English.

They will have the opportunity to explore example texts to identify text features and then apply what they have learnt to write their own text in the genres.

Computing - Robotics and Systems

Children will create and search flat-file databases, developing accuracy and efficiency.

Children investigate automated systems in the wider world and the use of sensors within them.

They will create, test, debug and refine algorithms, pseudocode and the related programs using sequence, selection, repetition and variables.

Children will program physical devices, controlling inputs and outputs, relating to their study of automated systems.

Art - Matisse

Children will develop an understanding of the element of colour through a study of Matisse's art work. They will use their sketch books to explore line and shape and develop their ideas.

Children will develop their understanding of colour mixing and the use of colour to affect moods and to express ideas and feelings. They will learn about Matisse as an artist, his life and inspiration. They will use a range of medium to develop their own techniques to create a picture in the style of Matisse.

PSHE & Citizenship – Keeping Safe

Children will understand the responsibilities adults have for children and how children begin to take some responsibility themselves.

They will develop an understanding of situations that might encompass risk (travelling, alcohol related situations)

Children will consider how they view themselves in risky situations.

Year 5 children will understand how self-confidence and assertiveness can help to keep themselves safe.

They will develop an understanding of situations where adult and / or peer support might be beneficial in avoiding risk.

French – Les Habitats (Habitats)

Children will explore the patterns and sounds of language through songs and rhymes and link the spelling, sound and meaning of words.

They will engage in conversations; ask and answer questions.

Children will speak in sentences, using familiar vocabulary, phrases and basic language structure.

They will develop accurate pronunciation and intonation.

Children will present ideas and information orally to a range of audiences.

They will understand basic grammar, including feminine, masculine and neuter forms and the conjugation of high-frequency verbs.

Music – Make you feel my love.

Children will explore the popular song 'Make you feel my love' by Adele.

Children will answer questions using musical terminology and begin to look at note patterns. They will listen and appraise various songs linking to theme of pop ballads.

Children will use instruments to create an ensemble that engages all.

PE – Circuit Training/Archery

Children will continue to apply and develop a broader range of skills, learning how to use them in different ways and to link them to make actions and sequences of movement. They will communicate, collaborate and compete with each other.

They will develop an understanding of how to improve and how to evaluate and recognise their own success.

They will develop flexibility, strength, technique, control and balance. They will compare their performances with previous ones and demonstrate improvement to achieve their personal best. Children will develop their hand/eye coordination and technique to hit the target with accuracy and strength.. **They will follow instructions carefully and safely.**

Geography

Energy and Environment

Children will learn to describe and understand key aspects of human geography including types of settlement, land use and the distribution of natural resources including energy, food, minerals and water.

Children will learn about renewable energy sources and be able to explain where food comes from. In addition, they will have a better understanding of the importance of conserving food, water and energy supplies.

Children will gain an understanding of how and why it is important to conserve water and think of ways in which to conserve water.

Children will take part in a range of activities enabling them to gain knowledge of how water is used and wasted.

They will be able to explain how water is cleaned and made safe for all households and have a greater understanding of the water cycle.