

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.

Children will explain that some changes result in the formation of new materials and that this type of change is usually not reversible.

SPRING 1 Year 5



English

They will learn about the features and write an explanation text based on explaining processes and how they work.

Children will also study persuasive texts and the features they contain.

In addition to this we will be studying several different tenses in grammar lessons and putting them into context.

PSHE & Citizenship – Keeping Safe and teamwork

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.

Children will discuss and gain a greater understanding of the benefit and importance of teamwork.

Physical Education Rugby and Gymnastics

Children will use running, jumping, throwing and catching in isolation and in combination.

They will play competitive games, modified where appropriate, for example rugby, and apply basic principles suitable for attacking and defending.

Year 5 children will develop flexibility, strength, technique, control and balance.

(Gymnastics)

Children 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 engage in competitive sports and activities with other schools.

Maths

Children will identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths. They will compare and order fractions whose denominators are all multiples of the same number.

Children will read and write decimal numbers as fractions (for example, $0.71 = \frac{71}{100}$) recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. They will recognise the per cent symbol (%) and understand that per cent relates to "number of parts per hundred", and write percentages as a fraction with denominator 100, and as a decimal.

Geography – Map Skills

Children will use maps, atlases, globes and digital/ computer mapping to locate countries and describe the features studied. Children will use the 8 points of a compass, 4- and 6- figure grid references, symbols and key (including the use of Ordnance Survey maps) to build knowledge of the United Kingdom and the wider world.

Children will have the opportunity to create a map of the local area (fieldwork), where they will create their own symbols and key.

Art Le Corbusier

Children will observe building and identify ideas behind the architects design. They will be taught about great artists, architects and designers in history.

To create sketch books to record their observations and use them to review and revisit ideas

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 learn 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.

They will perform their composition for the class.

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.

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, pseudo code 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.

Bringing Learning to Life Affinity water- workshop

Children will gain an understanding of the Science, Technology, Engineering and Maths involved in the building, maintenance and daily operations of the water industry.

They will learn about the scientific processes involved in getting clean and safe drinking water to their taps, where water comes from and an appreciation of why and how water should be conserved.

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