

Science Properties and Changes of Materials

Children will understand what makes a substance pure or impure. They will recognise what particles look and behave like in solids, liquids and gases. They will know the differences between pure substances, mixtures and alloys, and recognise what makes a substance a formulation.

Children will use their knowledge of solids, liquids and gases to decide how a mixture might be separated into pure substances 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. They will recognise how to identify irreversible changes caused by chemical reactions and understand the difference between physical changes and chemical changes. They will investigate chemical reactions by placing metals in acid and making environmentally-friendly plastic

Design and Technology Watermills

In DT we will be learning about watermills/water wheels.

Children will begin by investigating the movement in water mills, including the different Components needed in order to make a waterwheel.

They will also create a design criteria to follow throughout the design process.

Using their research, children will then design and make their own waterwheels, using recyclable materials.

Children will use a computer aided design program, such as 'Tinkercad', to aid their design skills and ideas for a waterwheel. The last task for the children to complete will be their evaluation forms, where the children will reflect and evaluate on their research skills, designing and making skills and materials they have used.

SPRING 2 Year 5



English

Children will write a suspense and mystery story focussing on building suspense and tension. They will use description and figurative language to engage the reader and 'show' through their language choices, rather than 'tell' us the outline of a story.

Children will learn about rap poetry. They will listen to, read, and respond to raps.

Children will then experiment with writing their own rap poem.

Children will study the language features of instructions. They will consider the devices used to build cohesion and write a set of instructions on how to create a water wheel.

History Tudors

Children will develop secure knowledge and understanding of British history in a chronological order. They will note connections, contrasts and trends over time and develop the appropriate use of historical terms.

Children will understand change, cause, similarities, differences and significance of historical events by answering and asking questions.

Children will understand how knowledge of the past is interpreted from a range of sources.

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.

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.

They 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.

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.

Music – The Fresh Prince of Bel Air

Children will listen and compare Hip-Hop songs.

They will answer questions using musical terminology.

Children will compose a backing song to the one studied and perform to others.

Physical Education Archery, Netball and Dance

In Archery, children will develop their hand/eye coordination and technique to hit the target with accuracy and strength. **They will follow instructions carefully and safely.**

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

Dance - Children will perform dances using a range of movement patterns. They will compare their performances with previous ones and demonstrate improvement to achieve their personal best.

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.

Computing - Robotics and Systems

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.