

Year 5 Spring Term

Science Materials

Properties and changes of materials (states of matter, properties of materials)

Compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets. Know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution.

Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating.

Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic.

Demonstrate that dissolving, mixing and changes of state are reversible changes.

Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda. Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.

Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate.

Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.

Using test results to make predictions to set up further comparative and fair tests.

Reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms such as displays and other presentations.

Identifying scientific evidence that has been used to support or refute ideas or arguments.

Thurgoland CE Primary School

Learning Together in Faith and Joy

ICT

We are artists/ We are web developers

Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.

Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.

Understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration.

Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.

Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.

Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

Design and technology

Savoury Biscuits

Design

Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups.

Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.

Make

Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately.

Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities.

Evaluate

Investigate and analyse a range of existing products.

Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.

Understand how key events and individuals in design and technology have helped shape the world.

Art
Vegetables and Carl Warner

To improve mastery of art and design techniques, including drawing in the context of charcoal.

To improve mastery of art and design techniques, including clay in the context of clay peppers.

Can sculpt clay.

To improve mastery of art and design techniques, including drawing in the context of oil pastel/coloured pencil drawings.

I can show colours.

To learn about great artists, architects and designers in history in the context of Carl Warner.

I can tell you about a fruit or vegetable sculptor.

Music

Class Orchestra - Ukulele

PE

Schemes: REAL PE and iMoves

Games

Using the Real PE scheme this term we will look at dynamic balance and counter balance in games as well as 1 leg static balance and dynamic balance with agility.

Gymnastics – bridges

To use balancing on different body parts to create bridge shapes both as individuals and with a partner

To sustain concentration and practice to improve the quality and accuracy of their movements

To work co-operatively with a partner and create a sequence showing planned variations in level, direction and shape

To understand the compositional principles of sequencing and recognize when something is absent

Dance

This term we will be following our iMoves dance scheme to learn about freestyle dancing.

Modern Foreign Languages - French

Prepare and practise a simple conversation, re-using familiar vocabulary and structures in new contexts.

Understand and express simple opinions.

Listen attentively and understand more complex phrases and sentences.

Re-read frequently a variety of short texts.

Make simple sentences and short texts.

Write words, phrases and short sentences, using a reference.

Look at further aspects of their everyday lives from the perspective of someone from France.

Make a simple story book.

Develop accurate pronunciation and intonation so that others understand when they are reading aloud or using familiar words and phrases.

Appreciate simple stories, songs, poems and rhymes in French.

PSHE

Democracy

To know that we live in a democratic society.

To understand how a democratic society functions

Drugs

To be able to make safe and considered decisions.

To know that some drugs are illegal to possess or use.

To learn the perspective of the law in relation to illegal drugs.

Community Involvement

To know about the role of voluntary and community bodies.

To understand the need for pressure groups.

RE

Schemes: Discovery RE and Understanding Christianity

How can Brahman be everywhere and in everything?

Learning to understand the Hindu belief that there is one God with many different aspects.

What did Jesus do to save human beings?

Outline the timeline of the 'big story' of the Bible, explaining how Incarnation and Salvation fit within it.

Explain what Christians mean when they say that Jesus' death was a sacrifice, using theological terms.

Show how Christians put their beliefs into practice.

Weigh up the value and impact of ideas of sacrifice in their own lives and the world today.