

Key Vocabulary

Bubble
Capacity
Condense
Dangerous
Density
Evaluate
Evaporate
Experiment
Freeze
Gas
Liquid
Melt
Mixture
Molecules
Particles
Potion
Predict
Process
Properties
Reaction
Record
Solid
State
Temperature
Viscosity
Volume



Key questions for this area of learning:

What are solids, liquids and gases?
How can you change the state of matter?
How can we create a fair test?
Are potions helpful or harmful?

Key people studied:

n/a

Visits, visitors or key events:

Science Day

Working scientifically:

Set up simple practical enquiries, compare and fair tests
Make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment, including thermometers and data loggers
Gather, record, classify and present data in a variety of ways to help in answering questions
Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions.

Science knowledge and understanding

Compare and group materials together, according to whether they are solids, liquids or gases.
Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C).
Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.

Key areas of English learning:

Narrative – George’s Marvellous Medicine, Professor Puffendorf, Alice in Wonderland.

Poetry

Instructions: how to make a potion.

Character profiles

Descriptive Language

Guided Reading: George’s Marvellous Medicine

Key areas of Maths Learning

Number and place value

Addition and subtraction (within 10,000)

TT-Rockstars

Measuring time

Measuring length

Home learning ideas/ places to visit:

Make a list of solids, liquids and gases that you find at home

Discuss the safety precautions around how they're stored and contained

Visit your local library or bookshop to find plays and stories around the theme of potions

History:

This is taught in other topics

Geography:

Describe and understand the key aspects of physical geography, including the water cycle

Use maps, atlases, and digital/computer mapping to locate countries and describe their features

Citizenship/ PSHE:

Whole school values.

Class rules and responsibilities.

Getting to know you

Computing:

Code: design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts

E-Safety: use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact

Religious Education:

Parables- This unit is introduced by looking at signs and symbols in everyday life and idioms in literacy, enabling the pupils to understand that meanings can be hidden. The focus is then on developing the pupils' understanding of Christian symbols, briefly, and Jesus' parables.

Creation Stories – This unit examines creation stories from a range of world religions (including Christian and Hindu stories)

Art and Design:

Create sketch books to record their observations and use them to review and revisit ideas.

Improve their mastery of art and design techniques, including drawing, painting and sculpture with a range of materials [for example, pencil, charcoal, paint, clay].

Design and Technology:

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.

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

PE:

Swimming

Football

Carousel:

The children are taught PE, Drama and music by specialist teachers every week.

The drama is linked to the topic, where possible.