

## SCIENCE

### States of matter

- 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.

### Properties and changes 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.

# RIVERS and EMPATHY

## Key Stage 2 Autumn

## Term 2019

### Geography

- describe and understand key aspects of: rivers and water distribution

### Art and Design

- to create sketch books to record their observations and use them to review and revisit ideas
- improve their mastery of art and design techniques, **painting** with a range of materials

### Computing

- 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
- use technology safely

### Design Technology

Design, Make and Evaluate a product that will:

- apply their understanding of how to strengthen, stiffen and reinforce more complex structures
- understand and use mechanical systems in their products [for example, gears, pulleys,

### Music

- \*play and perform in solo and ensemble contexts, using their voices and playing musical instruments with increasing accuracy, fluency, control and expression
- \*improvise and compose music for a range of purposes using the inter-related dimensions of music
- \*listen with attention to detail and recall sounds with increasing aural memory
- \*use and understand staff and other musical notations
- \*appreciate and understand a wide range of high-quality live and recorded music drawn

### PE

- \*play competitive games, modified where appropriate and apply basic principles suitable for attacking and defending
  - \*swim competently, confidently and proficiently over a distance of at least 25 metres
  - \*use a range of strokes effectively [for example, front crawl, backstroke and breaststroke]
  - \*perform safe self-rescue in different water-based situations.
- develop flexibility, strength, technique, control and balance

## RE

### The life of the Budha

Is it possible for everyone to be happy all the time? **Buddhism**

### Christmas

What is the most significant part of the Nativity story for Christians? **Christianity**

### Discovering RE and Understanding Christianity

## English

Fiction : Classic fiction

Fiction : Biographies and autobiographies

Non-fiction: Recounts

Non-fiction : Instructions and explanations

Poetry : Slam poetry

Poetry : Classic poems

Grammar focus: clauses, adverbials, noun phrases, different forms of verbs

Punctuation: Direct speech, commas, semi-colons

Spelling: Learning the appropriate lists, spelling rules and patterns, focus on the roots of words, prefixes and suffixes

Handwriting

Reading comprehension skills

## Mathematics

Year 5 and 6

\*Place value and written addition

\*Decimals and written addition

\*Subtraction

\*2D Shape and mental multiplication

\*Mental multiplication and fractions

\*Place value and written multiplication

\*Fractions, multiplication and division

\*Place value, decimals and subtraction

\*Measures

\*3D shape and fractions

\*Mental and written calculation

Year 3

\*Place value and money

\*Addition and subtraction

\*Shape and symmetry

\*Multiplication and division

\*Addition and subtraction

\*Multiplication and division

If anyone has any ideas, suggestions or books and resources that may help with our work, please let me know.

## French

listen attentively to spoken language and show understanding by joining in and responding

explore the patterns and sounds of language through songs and rhymes  
engage in conversations; ask and answer questions;

speaking in sentences, using familiar vocabulary, phrases and basic language structures

## PSHE

\* Focus on emotions- anxiety, happiness, how to look after ourselves emotionally

