

## Year 5—Spring 2

# Making New Materials

### In ICT the children will be focussing on:

- Writing computer programs using Scratch
- Making decisions about how to achieve a desired effect and being able to identify where programs can be broken into smaller parts to solve problems
- Understanding how algorithms work and identify how to make changes or improvements

### In PE the children will learn:

- A variety of dance steps
- How to develop sequences and routines
- A range of catching and striking games

### In PSHE the children will be learning about:

- Developing enterprise
- The role money plays in their own and others' lives
- How resources are allocated and how these choices affect individuals and communities

### In RE the children will be focussing on why pilgrimage is important to some believers. They will be learning to:

- Identify what pilgrims hope for from their religious journey and how this has an impact on their life
- Explain the meaning of pilgrimage for some believers
- Describe what is sacred about particular religious places of pilgrimage
- Explain how taking part in pilgrimage can make a difference to how pilgrims choose to live the rest of their lives

### In Music the children will be:

- Exploring themes creatively through composition and performance
- Learning to perform increasingly complex pieces as a group, responding to the performance of others

### In French the children will be:

- Exploring the grammar associated with describing their family
- Using a dictionary to translate words

### In Technology the children will be learning:

- How to make our own clay
- How glass is made
- How to create a brand new material
- To respond to identified needs, wants and opportunities with informed designs and products
- To gather and use information to suggest solutions to problems
- To devise and use step-by-step plans
- To work with a variety of tools and materials with some accuracy
- To test and evaluate their own work and improve on it

### In Art the children will learn:

- How artists use different materials in their work
- How to choose materials to express an idea
- To use a wide variety of materials, forms and techniques to express their emotions, observations and experiences
- To communicate through visual and tactile forms

### In Science the children will learn:

- About the chemistry of cooking
- What happens when we dissolve or melt things
- About gases and what they are
- About different materials used in the kitchen
- About conductors and insulators
- About magnetic materials and their uses
- How to separate mixtures by sieving, filtering and evaporating
- To conduct scientific investigations posing scientific questions
- To choose an appropriate way to investigate a scientific issue
- To make systematic and accurate measurements from their observations
- To record and communicate their findings accurately using the most appropriate medium and the appropriate scientific vocabulary and conventions

### In Maths the children will be learning to:

- Work with decimals to 3 places, ordering, comparing and rounding
- Solve problems involving addition, subtraction, multiplication and division
- Recognise and use square numbers and cube numbers, and the notation for squared ( $^2$ ) and cubed ( $^3$ )
- Identify, describe and represent the position of a shape following a reflection or translation
- Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres
- Calculate and compare the area of squares and rectangles, including using standard units
- Recognise the per cent symbol (%), understand that percent relates to “number of parts per hundred”, and write percentages as a fraction, and as a decimal fraction
- Solve problems involving measures
- Solving problems involving multiplication, addition, subtraction and division

### In English through the writing of explanations and narrative, the children will be learning to:

- Use commas, hyphens and brackets in different ways, including as a parenthesis to add details or clarity
- Organise our writing into paragraphs and using adverbials to link one paragraph to the next, creating cohesion between them
- Explore further ways to plan their ideas for use in fiction writing, choosing problems and solutions to move the narrative forward
- Use suffixes to change nouns into verbs, e.g. -ify, -ise
- Continue to develop skills of inference in different types of stories or non-fiction
- Explore how writers use language to create certain emotions within their readers
- Make links between the different books they have read, identifying common themes or meanings

### In History the children will learn:

- About the importance of bronze, iron and clay
- About wax, papyrus and paper
- To find out about aspects of the past from a range of sources
- To describe how the history of one country affects that of another