

# Science



The National Curriculum for Science is:

## Autumn One

### Materials (1)

- To be able to compare and group everyday materials on the basis of their properties, including their hardness, solubility, transparency and conductivity.
- To be able to understand that some materials will dissolve to form a solution, and how to recover a substance from a solution.
- To be able to use knowledge of solids, liquids and gases to decide how mixtures might be separated

## Autumn Two

### Living Things and their habitats (1)

- To describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird.
- To describe the reproductive process in some plants.
- To name, locate and describe the functions of the main parts of plants
- To describe the reproductive process in some animals.

## Spring One

### Space

- To describe the movement of the Earth, and other planets, relative to the Sun in the solar system.
- To describe the movement of the Moon relative to the Earth.

## Spring Two

### Materials (2)

- To be able to compare and group together everyday materials based on evidence from comparative and fair tests,
- To be able to understand that changes can result in new materials

## Summer

### Forces

- To describe the force of gravity and its effect on objects.
- To describe air resistance, water resistance and friction
- To understand how pulleys, levers and gears can be used.

# Year 5

## English

English is broken down into the following areas:

- Spoken Language
- Reading.
- Spelling (booklet to support parents & children sent home weekly)
- Handwriting and Presentation
- Writing
- Vocabulary, grammar & punctuation

\*To develop the children's understanding of the above we will be studying the following books:



### Autumn One

- The Lion, the Witch and the Wardrobe – C.S. Lewis
- The Princess' blankets. – Carol Ann Duffy.
- Bad, Bad Cats – Roger McGough.

### Autumn Two

- There's a boy in the Girls' Bathroom – Louis Sachar
- Ice Trap- M.P. Robertson & Meredith Hooper
- Short story writing based on Alma

### Spring One

- Eye of the Wolf- Daniel Pennac
- Joyful Noise Paul Fleischman

### Spring Two

- A Forest of Stories
- The Highwayman – Alfred Noyes
- Can we save the Tiger? – Martin Jenkins & Vicky White

### Summer One

- Street Child – Berlie Doherty
- The Piano – Media and film

### Summer Two

- King Kong – Anthony Browne
- Firework Maker's Daughter
- The Unforgotten Coat – Frank Cottrell Boyce.

## Mathematics

Mathematics is broken down into the following Learning Objectives for Year 5:

- Can read, write and order and manipulate whole and decimal numbers with 6 or more digits and identify the values of the digits
- Can use formal written methods of calculation for all four operations
- Can measure accurately using metric units for length, weight, capacity, time and convert between common metric units
- Can draw angles in degrees, estimate, compare and name angles
- Can read, interpret and represent data in tables, including timetables, and use information presented in a line graph
- Can solve multi-step problems and use symbols to represent numbers

## Physical Education

The Curriculum for P.E.:

### Autumn

Games  
Swimming

### Spring

Games -Tag Rugby/Tennis  
Gymnastics

### Summer

Athletics  
Dance

## Computing

Pupils will be taught to:

- understand computer networks including the internet
- use search technologies effectively
- select, use and combine a variety of software
- use technology safely, respectfully and responsibly

## History / Geography

### Autumn

- History – The Victorians
- Geography – Rainforests or Mountains

### Spring

- History – Local History
- Geography – Environment Matters

### Summer

- History – The Tudors
- Geography – Locational Knowledge

## Art



The following are the units we will be looking at:

### Autumn

Medusa painting – (Cross curricular links with Topic)

### Spring

Victorian clay Tiles

### Summer

Print making –inspired by the work of William Morris

## Music

Pupils will be taught to:

- play and perform in solo and ensemble contexts, using their voices and playing musical instruments
- improvise and compose music for a range of audiences
- listen with attention and recall sounds with increasing aural memory
- use and understand musical notations
- appreciate and understand a wide range of high-quality live and recorded music
- develop an understanding of the history of music.

*\*All classes will complete a set of lessons playing the recorder.*



## R.E.

Through the study of the major world religions children will learn to:

Understand the beliefs of the major world religions  
Understand why and how special celebrations occur within major world religions.

Be able to relate their own experiences to major world religions.

Religions to be covered: Christianity, Buddhism, Islam, Sikhism.