

# Science



The National Curriculum for Science is:

## Autumn One

### States of matter

- Solids, liquids and gases
- How some materials can change
- The water cycle

## Autumn Two

### Sound

- How sounds are made
- ☐ How sound travels to the ear
- ☐ How different pitches of sound are created
- ☐ How different volumes of sound are created
- ☐ The effects of distance on sound

## Spring One

### Electricity

- ☐ How electricity is useful to us
- ☐ Simple circuits
- ☐ How to identify circuits which work
- ☐ How switches control circuits
- ☐ Which materials are good electrical conductors

## Spring Two

### Animals including Humans

- ☐ How our bodies process food
- ☐ Different types of teeth

## Summer

- ☐ How living things can be grouped
- ☐ Classification keys and how to use them
- ☐ How environments can change and how this impacts living things
- ☐ Food chains

We will also be developing the following scientific skills:

- Plan an enquiry
- Observe and measure accurately
- Record my results and use them to form conclusions
- Say what I have found out
- Observe
- Carry out a fair test

# Year 4

## English

English is broken down into the following areas:

- Spoken Language
  - Reading
  - Spelling
  - 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

- Iron Man-Ted Hughes
- Cloud Tea Monkeys - Mal Peet
- Tuesday- David Wiesner

## Autumn Two

- Last Night I Saw the City Breathing- Andrew Fusek Peters
- Leon and the Place Between – Angela McAllister
- Blodin the beast- Michael Morpurgo

## Spring One

- The Lorax Dr Suess and Varmits -Helen Ward
- The Heart and the Bottle- Oliver Jeffers

## Spring Two

- Harry Potter and the Philosopher's Stone- J.K. Rowling
- Jabberwocky Lewis – Carroll
- Hair Love – Matthew A. Cherry

## Summer One

- FArTHER - Grahame Baker-Smith
- The Day I Swapped My Dad For Two Goldfish- Neil Gaiman

## Summer Two

- To a Skylark – Percy Bysshe Shelley
- The Lion and the Unicorn- Shirley Hughes
- The Lion, the Witch and the Wardrobe- C. S. Lewis

## Mathematics

Mathematics is broken down into the following Learning Objectives for Year 4:



- Know all tables to 12 x 12
- Secure place value to 1000
- Use negative whole numbers
- Round numbers to nearest 10, 100 or 1000
- Use Roman numerals to 100 (C)
- Column addition & subtraction up to 4 digits
- Multiply & divide mentally
- Use standard short multiplication
- Recognise tenths & hundredths
- Identify equivalent fractions
- Add & subtract fractions with common denominators
- Recognise common equivalents
- Round decimals to whole numbers
- Solve money problems
- Compare 2-d shapes, including quadrilaterals & triangles
- Find area by counting squares
- Calculate rectangle perimeters
- Estimate & calculate measures
- Identify acute, obtuse & right angles
- Identify symmetry
- Use first quadrant coordinates
- Introduce simple translations

## Physical Education

The Curriculum for P.E. is:

### Autumn

Basketball  
Football

### Spring

Dance  
Gymnastics  
swimming

### Summer

Cricket  
Athletics

## Music

- Use voice & instruments with increasing accuracy, control and expression
- Listen with attention to detail
- Learning the ukulele
- Appreciate wide range of live & recorded music

## History / Geography

History and Geography will be studied concurrently.



### Autumn

History-Anglo Saxons and the Scots  
Geography – India and England

### Spring

History- Ancient Egypt  
Geography- Village study –Eynsford.

### Summer

History –Britain's Viking History  
Geography - River Study

## Art

&

DT



These will alternate each half term:

### Autumn

Art - The Ramayana – mask making  
DT - Making a fusion food dish – Indian and British

### Spring

Art - Egyptian Art – printing  
DT – Making a desk tidy

### Summer

Art - A River study – clay  
DT – Designing a torch

## Computing

Pupils will be taught to:

- Design & write programs to achieve specific goals, including solving problems
- Use logical reasoning
- Understand computer networks
- Use internet safely and appropriately
- Collect and present data appropriately

## R.E.

Children will learn:

- Why the Bible is a special book
- About Hindu worship
- What religions are represented in our neighbourhood
- Why Easter is important to Christians
- 'What makes me the person I am'
- What happens in marriage