

# Content of the Curriculum: Year 4

## Year 4: Reading

I can read aloud and understand words based on knowledge of root words, prefixes and suffixes

I can read further exception words, including those with unusual spelling/sound links

I can retell some fairy tales or traditional tales orally

I can identify themes and conventions in a range of books

I can perform plays and poetry aloud using intonation, tone, volume and action

I can recognise some different forms of poetry

I can use dictionaries to check the meanings of words

I can check that a text makes sense, including explaining the meaning of words in context

I can identify and summarise the main ideas drawn from more than one paragraph

I can draw inferences about feelings thoughts and motives

I can use evidence to justify inferences

I can discuss words and phrases which capture the reader's interest

I can identify how language contributes to meaning

I can identify how structure and presentation contribute to meaning

I can retrieve and record information from non-fiction texts

# Year 4: Writing

I can spell words which are often misspelt from the Y3-4 list

I can use the possessive apostrophe accurately with plurals

I can use a dictionary to check a spelling

I can use appropriate handwriting joins, including choosing unjoined letters

I can adopt the features of existing texts to shape own writing

I can build sentences with varied vocabulary and structures

I can organise paragraphs around a theme

I can develop detail of characters, settings and plot in narratives

I can proof-reads for spelling and punctuation errors

I can use simple organisational devices in non-fiction

I can suggest improvements to grammar and vocabulary

I can write from memory simple sentences, dictated by the teacher, that include words and punctuation taught so far

I can read aloud using appropriate intonation, tone and volume

I can use a range of conjunctions to extend sentences with more than one clause

I can choose nouns and pronouns for clarity and cohesion

I can use conjunctions, adverbs and prepositions to express time, cause & place

I can use fronted adverbials

I can understand the difference between plural and possessive '-s'

I can use standard English forms for verb inflections instead of local spoken forms

I can choose an appropriate pronoun or noun within and across sentences to aid cohesion and avoid repetition

I can use extended noun phrases, including with prepositions

I can use inverted commas and other punctuation to indicate direct speech

# Year 4: Maths

## Number and place value

- I can count in multiples of six, seven, nine, 25 and 1,000
- I can count backwards through zero, including negative numbers
- I can recognise place value in four-digit numbers
- I can round any number to the nearest 10, 100 or 1000

## Addition and subtraction

- I can solve addition and subtraction two-step problems in context, deciding which operations and methods to use and why

## Multiplication and division

- I know tables up to  $12 \times 12$
- I use short multiplication method

## Fractions (including decimals)

- I can recognise and use hundredths
- I can recognise and write decimal equivalents to  $\frac{1}{4}$ ,  $\frac{1}{2}$  and  $\frac{3}{4}$
- I can divide one- or two-digit numbers by 10 and 100, using tenths and hundredths
- I can round decimals with one decimal place to the nearest whole number
- I can compare numbers up to two decimal places

## Measurement

- Convert between different units of metric measurement, including money

## Geometry: properties of shape

- Find the area of rectilinear shapes by counting squares
- Solve problems converting units of time
- Compare and classify shapes, including quadrilaterals and triangles
- Complete a simple symmetric figure with respect to a specific line of symmetry.

## Geometry: position and direction

- Describe positions on a 2-D grid using co-ordinates
- Describe translations using a given unit to the left/right and up/down

## Statistics

- I can solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs

# Year 4: Science

Across all year groups scientific knowledge and skills should be learned by working scientifically

## Biology

Plants	Look at the function of parts of flowering plants, requirements of growth, water transportation in plants, life cycles and seed dispersal
Evolution and Inheritance	Look at resemblance in offspring Look at changes in animals over time Look at adaptation to environments Look at differences in offspring Look at adaptation and evolution Look at changes to the human skeleton over time
Animals and humans	Look at nutrition, transportation of water and nutrients in the body, and the muscle and skeleton system of humans and animals Look at the digestive system in humans Look at teeth Look at the human circulatory system
All living things	Identify and name plants and animals Look at classification keys Look at the life cycle of animals and plants Look at classification of plants, animals and microorganisms Look at reproduction in plants and animals, and human growth and changes Look at the effect of diet, exercise and drugs

## Chemistry

Rocks and fossils	Compare and group rocks and describe the formation of fossils
States of matter	Look at solids, liquids and gases, changes of state, evaporation, condensation and the water cycle.
Materials	Examine the properties of materials using various tests Look at solubility and recovering dissolved substances Separate mixtures Examine changes to materials that create new materials that are usually not reversible

## Physics

Light	Look at sources, seeing, reflections and shadows Explain how light appears to travel in straight lines and how this affects seeing and shadow
Sound	Look at sources, vibration, volume and pitch
Electricity	Look at appliances, circuits, lamps, switches, insulators and conductors Look at circuits, the effect of the voltage in cells and the resistance and conductivity of materials
Forces and magnets	Look at contact and distant forces, attraction and repulsion, comparing and grouping materials Look at poles, attraction and repulsion Look at the effect of gravity and drag forces Look at transference of forces in gears, pulleys, levers and springs
Earth and space	Look at the movement of the Earth and the Moon Explain day and night

# Year 4: Computing

Design and write programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.

Use sequence, selections and repetition in programs; work with variables and various forms of input and output; generate appropriate inputs and predicted outputs to test programs

Use logical reasoning to explain how a simple algorithm works, detect and correct errors in algorithms and programs

Understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration

Describe how internet search engines find and store data; use search engines effectively; be discerning in evaluating digital content; respect individuals and intellectual property; use technology responsibly, securely and safely

Select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals, including collecting, analysing, evaluating and presenting data and information

# Year 4: Art and Design

Use experiences, other subjects across the curriculum and ideas as inspiration for artwork

Develop and share ideas in a sketchbook and in finished products

Improve mastery of techniques

Learn about the great artists, architects and designers in history

# Year 4: Music

Play and perform in solo and ensemble contexts, using voice and playing instruments with increasing accuracy, control and expression

Improvise and compose music using the inter-related dimensions of music separately and in combination

Listen with attention to detail and recall sounds with increasing aural memory

Use and understand the basics of the stave and other musical notations

Appreciate and understand a wide range of high-quality live and recorded music from different traditions and from great musicians and composers

Develop an understanding of the history of music

# Year 4: Design and Technology

Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making.

<b>Design</b>	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 and computer-aided design
<b>Make</b>	Select from and use a wider range of tools and equipment to perform practical tasks, such as cutting, shaping, joining and finishing, accurately  Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities
<b>Evaluate</b>	Investigate and analyse a range of existing products  Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work  Understand how key events and individuals in design and technology have helped shape the world
<b>Technical knowledge</b>	Apply their understanding of how to strengthen, stiffen and reinforce more complex structures  Understand and use mechanical systems in their products, such as gears, pulleys, cams, levers and linkages  Understand and use electrical systems in their products, such as series circuits incorporating switches, bulbs, buzzers and motors  Apply their understanding of computing to programme, monitor and control their products
<b>Cooking and nutrition</b>	Understand and apply the principles of a healthy and varied diet  Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques  Understand seasonality and know where and how a variety of ingredients are grown, reared, caught and processed

# Year 4: PE

Play competitive games, modified where appropriate, such as football, netball, rounders, cricket, hockey, basketball, badminton and tennis and apply basic principles suitable for attacking and defending

Take part in gymnastics activities

Take part in athletics activities

Perform dances

Take part in outdoor and adventurous activity challenges both individually and within a team

Swimming and water safety: take swimming instruction in Key Stage 2

# Year 4: PSHE

Learning about: family and relationships, health and wellbeing, safety and the changing body, citizenship, economic wellbeing, transition and British Values

# Year 4: RE

Study the main stories of Christianity

Study at least one other religion. Choose from Buddhism, Hinduism, Islam, Judaism or Sikhism

Study other religions of interest to pupils