

# Content of the Curriculum: Year 3

## Year 3: 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 3: Writing

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

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 use simple organisational devices in non-fiction

I can suggest improvements to grammar and vocabulary

I can proofread own work for spelling and punctuation errors

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 use the forms 'a' or 'an' according to whether the next word begins with a consonant or a vowel eg a rock, an open box

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 the present perfect form of verbs instead of the simple past eg 'He has gone out to play' in contrast to 'He went out to play'

I can use extended noun phrases, including with prepositions

I can use and punctuate direct speech correctly

I can introduce inverted commas to punctuate direct speech

I can use headings and sub-headings to aid presentation

# Year 3: Maths

## Number and place value

I can count in multiples of 4, 8, 50 and 100

I can compare and order numbers up to 1000

I can recognise the value of each digit in a three-digit number (hundreds, tens, and ones)

I can solve number problems and practical problems involving these ideas

## Addition and subtraction

I can add and subtract numbers mentally, including round numbers to HTU

I can add and subtract using standard column method

I can estimate answers to calculations and use the inverse to check answers

## Multiplication and division

I know 3 $\times$ , 4 $\times$  and 8 $\times$  tables

I can write and calculate mathematical statements for multiplication and division using the multiplication tables that are known including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods

## Fractions (including decimals)

I can count up and down in tenths

I understand that tenths are objectives or quantities divided into ten equal parts

I can compare and order simple fractions

I can recognise and show equivalent fractions

I can find and write fractions of a set of objects

I can add and subtract fractions with common denominators (less than one)

## Measurement

I can measure, compare and add and subtract lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)

I can measure the perimeter of simple 2-D shapes

I can add and subtract money, including giving change

I can tell and write the time from an analogue clock, including using Roman numerals

I can estimate and read time to the nearest minute

I can identify horizontal, vertical, parallel and perpendicular lines

I can identify whether angles are greater or less than a right angle

## Statistics

I can interpret and present data using bar charts, pictograms and tables

# Year 3: Science

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

## Biology

<b>Plants</b>	Look at the function of parts of flowering plants, requirements of growth, water transportation in plants, life cycles and seed dispersal
<b>Evolution and Inheritance</b>	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
<b>Animals and humans</b>	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
<b>All living things</b>	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

<b>Rocks and fossils</b>	Compare and group rocks and describe the formation of fossils
<b>States of matter</b>	Look at solids, liquids and gases, changes of state, evaporation, condensation and the water cycle.
<b>Materials</b>	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

<b>Light</b>	Look at sources, seeing, reflections and shadows Explain how light appears to travel in straight lines and how this affects seeing and shadow
<b>Sound</b>	Look at sources, vibration, volume and pitch
<b>Electricity</b>	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
<b>Forces and magnets</b>	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
<b>Earth and space</b>	Look at the movement of the Earth and the Moon Explain day and night

# Year 3: 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 3: 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 3: 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 3: 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 3: 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 3: 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