

Alverton Primary School: Curriculum Overview for Year 4

English (Year 4)

Reading

- Read aloud and understand words based on knowledge of root words, prefixes and suffixes.
- Read exception words, including those with unusual spelling/sound links from the Y3/4 list.
- Listen to, read and discuss a range of texts and books.
- Identify simple themes and conventions in a range of books.
- Identify the organisational features of some types of text.
- Ask questions to improve understanding of a text.
- Use dictionaries to check the meanings of unfamiliar words.
- Check that a text makes sense, including explaining the meaning of words in context.
- Identify and summarise the main ideas drawn from more than one paragraph.
- Retrieve and record information from non-fiction texts.
- Infer meanings and begin to justify with reasons from the text.
- Predict what might happen from details stated and implied.
- Identify where a writer has used precise word choices to have an impact on the reader.
- Build on others' ideas and opinions about a text in a discussion.
- Perform or retell plays, poetry or traditional tales aloud using intonation, tone, volume and action.

Writing

- Discuss and record ideas for planning.
- Discuss the key features of modelled texts and use these to shape own writing.
- Compose sentences using a range of sentence structures.
- Write a story in paragraphs with a clear structure, setting, characters and plot.
- Use paragraphs to organise ideas around a theme.
- Write non-fiction with an introduction, clear points and a conclusion.
- Use an increasing range of connectives to link ideas.
- Critique own (and others') writing and suggest improvements.
- Proof read and make improvements to grammar, spelling and punctuation.
- Begin to show not tell.
- Use stylish language features such as similes.
- Include detail to interest, to persuade or direct.
- Choose interesting words for deliberate effect.

Handwriting

- Increase legibility, consistency and quality of handwriting.

Grammar

- Choose nouns and pronouns for clarity and cohesion and to avoid repetition.
- Use fronted adverbials
- Recognise and use Standard English verb inflections
- Use expanded noun phrases, including with prepositional phrases.
- Use the possessive apostrophe accurately with plurals.
- Use commas after fronted adverbials
- Punctuate direct speech correctly.

Spelling

- Spell words which are often misspelt from the Y3-4 list.
- Spell words with prefixes and suffixes and add them to root words.
- Use a dictionary to check spellings.

Speaking and Listening

- Articulate and justify opinions.
- Speak audibly in standard English.
- Gain, maintain and monitor interest of listeners.

Art and Design (LKS2)

- Use a variety of materials for different techniques with creativity and experimentation.
- Explore and recreate images and objects with an extended range of materials.
- Give reasons for choices.
- Use sketch books to create, record and evaluate ideas.
- Respond to the work of others saying how it makes them think or feel and begin to apply this to their own work.
- Improve mastery of techniques such as drawing, painting and sculpture with varied materials.
- Use line and tone to represent things seen, remembered or observed.
- Use colour to express mood using different tools and colour awareness.
- Learn about great artists, architects and designers.
- Begin to include elements of other artists' work in their own.

Computing (LKS2)

- Use search technologies safely and effectively.
- Use different font sizes, colours and images purposefully
- Open and save emails.
- Know how to use digital tools responsibly to communicate.
- Design and write programs, including decomposing, to achieve specific goals.
- Use logical reasoning to explain simple algorithms.
- Select and use technology to collect and present data appropriately.
- Create and implement a range of programs to accomplish given goals.
- Understand computer networks including the internet and how they can provide multiple services.
- Recognise unacceptable behaviour online.
- Know how to deal with and report inappropriate content and contact

Design and Technology (LKS2)

- Use research and develop design criteria to inform the design of appealing products which are fit for purpose.
- Use annotated sketches and prototypes to develop and explain ideas.
- Use a range of tools and equipment with accuracy.
- Select from and use a range of materials and components including construction materials, textiles and ingredients.
- Join and combine a range of materials.
- Investigate and analyse a range of existing products.
- Evaluate ideas and products against own design criteria and consider the views of others to improve work.
- Understand how key events and individuals in DT have helped shape the world.
- Understand how to strengthen and reinforce structures.
- Understand and use mechanical and electrical systems in own products.
- Understand the principles of a healthy and varied diet.
- Prepare and cook a variety of predominantly savoury dishes.

Geography (LKS2)

- Locate the world's countries, focusing on Europe and South America and their environmental regions, physical and human characteristics and major cities.
- Locate and name some counties and cities of the UK.
- Describe the human and physical characteristics of the local region.
- Understand geographical similarities and differences through the study of human and physical geography of the local area and of other countries.
- Describe and understand key aspects of physical geography such as rivers, mountains, volcanoes and earthquakes and of human geography such as settlements and land use.
- Use maps, atlases, globes and digital / computer mapping.
- Use the eight points of a compass, symbols and keys.
- Use fieldwork to observe, measure and record and present findings in a range of ways.
- Present findings in a range of ways including sketch maps, plans and using digital technology.

Mathematics (Year 4)

Number

- Count backwards through zero, including negative numbers.
- Order and compare numbers beyond a thousand.
- Round any number to the nearest 10, 100 or 1000.
- Compare numbers up to two decimal places.
- Read Roman numerals to 100.

Addition and Subtraction

- Use place value and number facts to carry out mental calculations.
- Use factor pairs and commutativity in mental calculations.
- Use the column method for subtraction, including borrowing.
- Solve number problems in context, recognising which operation to use.

Multiplication and Division

- Know tables up to 12×12 .
- Use a written method for multiplication (2 or 3 digit \times 1 digit).
- Use a written method for division.

Fractions

- Recognise and use hundredths.
- Recognise and show families of common equivalent fractions.
- Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$ and any tenths or hundredths.
- Divide one- or two-digit numbers by 10 and 100, using tenths and hundredths.
- Round decimals with one decimal place to the nearest whole number.
- Compare decimal numbers up to two decimal places.

Measure

- Convert between different units of metric measurement.
- Solve problems converting units of time.
- Find the area of shapes by counting squares.

Shape

- Compare and classify shapes, including quadrilaterals and triangles.
- Name, compare and order angles.
- Identify and use symmetry in 2D shapes.
- Describe positions on a 2D grid using co-ordinates.
- Describe translations using a given unit to the left/right and up/down.

Data

- Interpret and present different data.
- Solve comparison, sum and difference problems with data.

Science (Year 4 objectives - covered during LKS2)

Biology:

- Plants, including parts, lifecycle and requirements for life.
- Animals: Skeletons and nutrition.

Physics

- Classification of rock types.
- Simple understanding of fossilisation.

Chemistry

- Sources of light, shadows and reflection
- Simple forces, especially magnetism.

Scientific Enquiry

- Ask relevant questions and use evidence to answer these.
- Set up practical enquiries and fair tests using a range of scientific equipment.
- Make careful observations and begin to make accurate measurements.
- Record findings using simple scientific language, drawings, labelled diagrams and tables.
- Report findings from investigations including oral and written explanations or presentations of results and conclusions.
- Using results to draw simple conclusions.

History (LKS2)

- Continue to develop a chronologically secure knowledge and understanding of British, local and world history, establishing clear narratives within and across the periods studied.
- Order events over a wider timescale and understand this.
- Use historical information.
- Understand that our knowledge of the past is constructed from a range of sources.
- Know the difference between primary and secondary sources.
- Answer and begin to ask historical questions.
- Recognise why people did things, why events happened and the consequences.
- Note connections and contrasts.
- Identify historically significant people and events.
- Develop use of historical terms.

Coverage will include:

- Stone Age to Iron Age
- A study of an Ancient Civilisation
- Ancient Greece
- A Non-European Society

Modern Languages (LKS2)

- Listen attentively to spoken language and show understanding by joining in and responding.
- Explore the patterns and sounds of language through songs and rhyme.
- Ask and answer questions.
- Speak in sentences using familiar vocabulary.
- Begin to develop pronunciation.
- Show understanding of words and phrases.
- Appreciate stories, songs, poems and rhymes.
- Write phrases from memory and adapt these to create new sentences.
- Describe people, places, things and actions orally.

Music (LKS2)

- Use voice and Instruments with increasing accuracy, control and expression to play and perform.
- Perform in a group and alone.
- Improvise and compose music for a range of purposes.
- Listen with attention to detail and recall sounds.
- Appreciate a range of high quality live and recorded music.
- Describe and compare moods in music.
- Begin to develop an understanding of musical history.

Physical Education (LKS2)

- Use running, throwing, jumping and catching in isolation and in combination.
- Develop flexibility and control in athletics.
- Compare performances to achieve personal bests.
- Develop flexibility and control in gymnastics.
- Play competitive games, modified as appropriate.
- Develop the skills needed for these such as attacking and defending.
- Perform dances using a range of movement patterns.
- Swim competently, confidently and proficiently over a distance of at least 25 metres.
- Use a range of strokes effectively.
- Perform self-rescue in different water-based situations.
- Take part in outdoor and adventurous activity challenges.
- Throw and catch a ball with accuracy and control.
- Strike a ball with accuracy and control.

Religious Education (LKS2)

- Develop their knowledge, skills and understanding of Christianity, Hinduism, Islam, Judaism and Sikhism.
- Describe the key aspects of religions, especially the people, stories and traditions that influence the beliefs and values of others.
- Identify and begin to describe the similarities and differences within and between religions.
- Find out about inspirational people: figures from whom believers find inspiration.
- Identify key moments in the story of Christianity in Cornwall and how that has shaped Cornwall in the present.
- Understand what is expected of a person in following a religion or belief.
- Reflect on ideas of right and wrong and their own and others' responses to them.
- Encounter religion through visitors and visits to places of worship, and focusing on the impact and reality of religion on the local and global community.
- Express and communicate their own and others' insights through art and design, music, dance, drama and IT.