

Alverton Primary School: Curriculum Overview for Year 6

English (Year 6)

Reading

- Read fluently, using existing knowledge and punctuation to inform meaning.
- Read, and discuss content of a wide range of fiction.
- Identify and discuss themes and conventions across texts.
- Make comparisons within and across books and explain the links.
- Discuss understanding of texts, including exploring meaning of words in context.
- Ask questions to improve understanding of texts.
- Summarise key information from different parts of a text.
- Retrieve, record and present information from non-fiction.
- Predict future events from details stated and implied.
- Justify inferences with evidence from the text.
- Identify how language, structure and presentation contribute to meaning.
- Discuss how authors use language, including figurative language, to affect the reader.
- Distinguish between fact and opinion.
- Take part in discussions about books and reading, building on and challenging ideas.
- Express opinions about a text and giving reasons and justifications.
- Learn and perform poetry and plays, showing understanding through intonation, tone, volume and action.

Writing

- Develop ideas in planning and plan the correct text structure.
- Identify the audience and purpose before writing and adapt accordingly.
- Use sentences, vocab and features appropriate to audience, purpose and genre.
- Write in a variety of well-chosen sentences of different length and type within a text.
- Writing is well-paced.
- Use organisational and presentational devices, including paragraphs.
- Use a range of cohesive devices to link ideas across texts.
- Summarise a text, conveying key information.
- Critique the effectiveness of their own, and others' writing and suggest improvements.
- Improve vocabulary, grammar and punctuation to enhance effects and clarify meaning.
- Proof-read for spelling and punctuation errors.
- Writing has a "voice", including addressing the reader.
- Use a range of sentences and vocabulary to create specific effects.
- Use vocabulary that is varied, imaginative and appropriate.
- Use expanded noun phrases to add detail to sentences.
- Recognise and use vocabulary and structures that are appropriate for formal use.
- Understand how to add tension.

Grammar

- Use passive verbs to affect the presentation of information.
- Use perfect form of verbs to mark relationships of time and cause.
- Use hyphens and / or ellipsis.
- Use semi-colons, colons and dashes between clauses.
- Use a colon to introduce a list and punctuation bullet points.

Spelling

- Use a range of spelling strategies.
- Spell the words from the Year 5/6 list.
- Use a dictionary and a thesaurus.

Speaking and Listening

- Use questions to gain knowledge.
- Articulate arguments and opinions.
- Use spoken language to speculate, hypothesise and explore.
- Use appropriate register and language.

Handwriting

- Write legibly and fluently.

Art and Design (UKS2)

- Use a variety of materials for different techniques with creativity, experimentation and an awareness of different kinds of art, craft and design.
- Explore and create images and objects with an extended range of materials.
- Use sketch books to collect, record, review, revisit and evaluate ideas.
- Use art to express an emotion or abstract concept.
- Improve mastery of techniques such as drawing, painting and sculpture with varied materials.
- Use line, tone and shade to represent things that are real, imaginary or observed.
- Use different brushes for specific purposes and explores different paint effects.
- Show an awareness of, and select materials and tools, to create images or objects using texture, form and shape.
- Begin to use perspective.
- Learn about great artists, architects and designers.
- Use the work of other artists as a stimulus for their own.

Computing (UKS2)

- Use search technologies effectively to collect, analyse and evaluate digital content.
- Use digital devices to combine different software and present data and information.
- Design, write and debug programs to solve problems.
- Use sequences, repetition, variables, inputs and outputs.
- Detect and correct errors in algorithms and programs.
- Select, use and combine software to collect, analyse, evaluate and present data appropriately and design a range of programs.
- Understand computer networks for collaboration and communication.
- Use technology safely and responsibly, recognising appropriate behaviour and knowing how to report concerns

Geography (UKS2)

- Locate the world's countries, focusing on Europe and South America and their environmental regions, physical and human characteristics and major cities.
- Name and locate counties and cities of the United Kingdom.
- Describe the human and physical characteristics of the local region and understand how some of these have changed over time.
- Understand latitude, longitude, Equator, Hemispheres, Tropics, Meridian and time zones.
- Study the local area and the geography of other countries including human and physical characteristics and changes over time, making comparisons between similarities and differences.
- Describe and understand key aspects of physical geography including rivers, mountains, volcanoes, earthquakes and of human geography such as settlements, land use, trade links and distribution of natural resources.
- Study biomes, climate zones and vegetation belts.
- Use maps, atlases, globes and digital / computer mapping
- Use the eight points of a compass, four and six figure grid references and symbols and keys (include OS maps).
- Use fieldwork to observe, measure and record and present findings using a range of methods.

Mathematics (Year 6)

Number

- Use negative numbers to calculate intervals across zero.
- Round any whole number as required.

Multiplication and Division

- Multiply up to 4-digit x 2-digit whole numbers.
- Divide numbers using long division, interpreting the remainders as appropriate.
- Multiply a number with up to two decimal places by whole numbers.
- Use written division with answers of up to two decimal places.
- Multiply a number with one decimal place by another number with one decimal place.
- Identify common factors, common multiples and prime numbers.

Fractions

- Use common factors to simplify fractions.
- Compare and order fractions of any size.
- Add and subtract fractions with different denominators and mixed numbers.
- Multiply simple pairs of proper fractions.
- Divide proper fractions by whole numbers.
- Calculate decimal fraction equivalents for simple fractions.
- Recall and use equivalences between fractions, decimals and percentages.
- Solve problems using ratio using multiplication and division facts.
- Solve problems involving similar shapes where the scale factor is known.
- Solve problems involving proportion, using knowledge of fractions and multiples.

Algebra

- Use simple formulae.
- Generate and describe linear number sequences.
- Express missing number problems algebraically.

Measure

- Convert units of measure between smaller and larger units up to 3 decimal places.
- Convert between miles and kilometres.
- Calculate the area of parallelograms and triangles.
- Calculate and compare volume of cubes and cuboids.

Shape

- Illustrate and name parts of a circle.
- Find missing angles in triangles, quadrilaterals and regular polygons.
- Recognise vertically opposite angles and find missing angles.
- Describe positions on the full co-ordinate grid.
- Translate shapes on a co-ordinate grid and reflect in the axes.

Data

- Construct and interpret pie charts.
- Calculate the mean as an average.

History (UKS2)

- Continue to develop a chronologically secure knowledge and understanding of British, local and world history, establishing clear narratives within and across periods studied.
- Understand the impact of historical events including in relations to other events and to the modern day.
- Choose and use historical information.
- Use a variety of reliable sources to gain a deeper understanding.
- Compare historical sources and suggest the validity of these.
- Answer and ask historical questions about change, cause, similarity, difference and significance.
- Identify, and give reasons for, results of historical events, situations and changes.
- Connections, contrasts and trends over time.
- Identify and evaluate historically significant people and events.
- Develop appropriate use of historical terms.

Coverage will include:

- British History after 1066
- Invaders and Settlers
- A Local History Study (World War II)

Design and Technology (UKS2)

- Use research and criteria to develop products which are appealing, innovative, fit for purpose and aimed at a specific audience.
- Generate, develop and communicate ideas in a range of ways.
- Use a wider range of tools and equipment to perform practical tasks accurately for a range of uses.
- Select from and use a range of materials and components. According to their functional and aesthetic properties.
- Join and combine a range of materials using appropriate methods.
- Investigate and analyse existing products and use these to inform decisions and refine ideas.
- Justify decisions during the design process.
- Evaluate own ideas and products against design criteria and consider views of others to improve own work.
- Understand how key events and individuals in DT have helped shape the world.
- Use mechanical and electrical systems in own work, including programming.
- Use a range of cooking techniques to cook dishes for a healthy and varied diet.
- Understand seasonality and where ingredients originate.

Modern Languages (UKS2)

- Listen and engage with spoken language.
- Link the spelling, sound and meaning of words.
- Engage in conversation, expressing opinions.
- Speak in simple language using basic language structures.
- Develop appropriate pronunciation and be understood.
- Present ideas and information orally.
- Show understanding in simple reading.
- Broaden vocabulary and develop ability to understand new words.
- Write phrases from memory and adapt these to create new sentences.
- Describe people, places, things and actions orally and in writing.
- Understand basic grammar eg gender and apply to build sentences.

Physical Education (UKS2)

- Use running, throwing, jumping and catching in isolation and in combination.
- Develop flexibility, strength, technique, control and balance in athletics.
- Compare performances to achieve personal bests.
- Develop flexibility, strength, technique, control and balance in gymnastics.
- Play competitive games and apply basic principles of attacking and defending.
- Perform dance using a range of movement patterns for specific purposes.
- 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 both individually and in a team.
- Use a variety of strokes effectively.
- Use a variety of techniques to pass a ball.

Music (UKS2)

- Play and perform using voice and instruments with increasing accuracy, control, fluency and expression in solo and ensemble contexts.
- Sing in two parts, including harmonies.
- Improvise and compose using dimensions of music.
- Use and understand staff and other musical notations.
- Appreciate and understand a range of high quality live and recorded music from different traditions, composers and musicians using appropriate vocabulary.
- Analyse and compare musical features.
- Develop an understanding of musical history.

Religious Education (UKS2)

- Identify and explain the core beliefs and concepts studied, using examples from texts / sources of authority in religions.
- Describe examples of ways in which people use texts / sources of authority to make sense of core beliefs and concepts.
- Give meanings for texts / sources of authority studied, comparing these ideas with some ways in which believers interpret texts / sources of authority.
- Make clear connections between what people believe and how they live, individually and in communities.
- Using evidence and examples, show how and why people put their beliefs into practice in different ways eg in different communities, denominations or cultures.
- Make connections between the beliefs and practices studied, evaluating and explaining their importance to different people (eg believers and atheists).
- Reflect on and articulate lessons people might gain from the beliefs / practices studied, including their own responses, recognising that others may think differently.
- Consider and weigh up how ideas studied in this unit relate to their own experiences and experiences of the world today, developing insights of their own and giving good reasons for the views they have and the connections they make.

Science (Year 6 objectives - covered during UKS2)

Biology:

- Life cycles of plants and animals.
- Changes as humans develop and mature.

Physics

- Understand location and interaction of sun, earth and moon.
- Gravity, resistance and mechanical forces.

Chemistry

- Classify materials according to a variety of properties.
- Understand mixtures and solutions.
- Know about reversible and irreversible changes.

Scientific Enquiry

- Plan scientific enquiries to answer questions including controlling variables.
- Set up practical enquiries and tests.
- Make systematic observations and take accurate measurements using a range of scientific equipment.
- Record and present data and results in a range of ways.
- Report findings from investigations.
- Make predictions and draw conclusions.
- Identify scientific evidence that has been used to support or refute ideas or arguments.