

Alverton Primary School: Curriculum Overview for Year 5

English (Year 5)

Reading

- Apply knowledge of root words, prefixes and suffixes to read aloud and understand meaning.
- Read and discuss features of a wide range of fiction (modern, traditional, other cultures etc).
- Make connections between similar texts.
- Identify and discuss significant ideas, events and characters.
- Talk about texts, including exploring meaning of words in context
- Ask questions to improve understanding of texts.
- Summarise main ideas drawn from more than one paragraph.
- Use knowledge of text types to retrieve and record information from non-fiction.
- Make predictions from what has been read.
- Draw inferences and justify these with evidence from the text.
- Identify the purpose, structure and language of texts and how effective these are.
- Identify, and talk about, how authors use language, including figurative language.
- Present my ideas, listen to, and build on others' points of view in a discussion about reading.
- Express opinions about a text and give reasons.
- Learn and perform poetry and plays, showing understanding through intonation, tone, volume and action.

Handwriting

- Write legibly and fluently.

Writing

- Discuss the audience and purpose before writing.
- Develop ideas in planning.
- Use the correct features for the text.
- Use the correct sentence structure and language for the text.
- Start sentences in different ways.
- Write an increasing range of complex sentences.
- Organise writing into paragraphs to suit the genre.
- Paragraphs have a relevant opening and structure.
- Use devices to build cohesion within paragraphs.
- Use adverbials of time, place and number for cohesion across a text.
- Summarise a paragraph.
- 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.
- Use exciting and thoughtful vocabulary choices to create an impact.
- Use some stylish language features.
- Use well-chosen detail to interest the reader.
- Develop characters, setting and atmosphere.

Grammar

- Use the correct tense consistently throughout a piece of writing.
- Ensure correct subject and verb agreement.
- Use modal verbs or adverbs to indicate possibility.
- Use relative clauses (beginning with who, which, that).
- Use commas to mark phrases and clauses.
- Use brackets, dashes and commas to indicate parenthesis.
- Use "stage directions" after accurate speech.

Spelling

- Recognise and use spellings for homophones and other often-confused words.
- Spell the words from the Year 5/6 list.
- Use a dictionary and a thesaurus.

Speaking and Listening

- Give well-structured explanations.
- Has a command of Standard English.
- Consider and evaluate different viewpoints.
- Use appropriate register.

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 5)

Number

- Interpret negative numbers in context.
- Read, write and compare numbers to at least 1 000 000.
- Read Roman numerals to 1000, including years.
- Round any number up to 1 000 000 to the nearest 10, 100, 1000 and 10000.

Addition and Subtraction

- Add and subtract whole numbers with more than four digits.
- Add and subtract mentally with increasingly large numbers (eg 12462 – 2300).

Multiplication and Division

- Identify multiples and factors, including finding factor pairs and common factors.
- Know prime numbers up to 19.
- Use a formal written method for multiplying numbers of up to 4 digits by one or two digits.
- Divide numbers using standard written short division and interpret remainders.
- Multiply and divide numbers by 10, 100 or 1000, including decimals.
- Recognise and use square and cube numbers, and know the notation.

Fractions

- Compare and order fractions whose denominators are multiples of the same number.
- Identify, name and write equivalent fractions including tenths and hundredths.
- Convert between mixed numbers and improper fractions.
- Add and subtract fractions with denominators that are multiples of the same number.
- Multiply proper fractions and mixed numbers by whole numbers using diagrams if needed.
- Read and write decimal numbers as fractions.
- Round decimals with 2 decimal places to whole number or to one decimal place.
- Read, write, order and compare numbers with up to 3 decimal places.
- Recognise % symbol and explain as a fraction with denominator 100 (parts out of 100).

Data

- Solve a range of problems using data in a line graph.
- Complete, read and interpret information in tables, including timetables.

Measure

- Understand and use common approximate conversions between metric and imperial.
- Convert between different units of metric measurement.
- Measure and calculate the perimeter of composite rectilinear shapes.
- Calculate the area of rectangles, and estimate the area of irregular shapes.

Shape

- Identify 3D shapes from 2D representations.
- Know angles are measured in degrees and compare acute, obtuse and reflex angles.
- Draw and measure angles to the nearest degree.
- Identify angles at a point, in a turn and on a straight line.
- Use the properties of rectangles to find missing lengths and angles.
- Distinguish between regular and irregular polygons.
- Describe and represent the result of a reflection or translation.
- Solve multi-step problems in context, deciding which operations to use.

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.

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.

Science (Year 5 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.

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)

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.

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.