

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 etc).
- 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.

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.

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.

Music (UKS2)

- Play and perform using voices 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)

- Develop their knowledge, skills and understanding of Christianity, Hinduism, Islam, Judaism and Sikhism.
- Describe the variety of practices and ways of life in religions and understand how these stem from, and are closely connected with, beliefs and teachings.
- Consider the meaning of a range of forms of religious expression, understand why they are important in religion and note links between them.
- Find out about inspirational people: figures from whom believers find inspiration.
- Understand symbols and religious expression: how religious and spiritual ideas are expressed.
- Identify and explain key moments in the story of Christianity in Cornwall and how that has shaped Cornwall in the present.
- Respond to the challenges of commitment both in their own lives and within religious traditions, recognising how commitment to a religion is shown in a variety of ways.
- Beliefs in action in the world: how religions and beliefs respond to global issues of human rights, fairness, social justice and the importance of the environment.
- Investigate the significance of religion in the local, national and global communities.

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.

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)