

New National Curriculum 2014: Year 3

English

Lower Key Stage 2

Spoken Language (Years 1 to 6)

listen and respond appropriately to adults and their peers
ask relevant questions to extend their understanding and knowledge
use relevant strategies to build their vocabulary
articulate and justify answers, arguments and opinions
give well-structured descriptions, explanations and narratives for different purposes, including for expressing feelings
maintain attention and participate actively in collaborative conversations, staying on topic and initiating and responding to comments
use spoken language to develop understanding through speculating, hypothesising, imagining and exploring ideas
speak audibly and fluently with an increasing command of Standard English
participate in discussions, presentations, performances, role play, improvisations and debates
gain, maintain and monitor the interest of the listener(s)
consider and evaluate different viewpoints, attending to and building on the contributions of others
select and use appropriate registers for effective communication.

Reading: Word Reading

apply their growing knowledge of root words, prefixes and suffixes (etymology and morphology) as listed in English Appendix 1, both to read aloud and to understand the meaning of new words they meet
read further exception words, noting the unusual correspondences between spelling and sound, and where these occur in the word.

Reading: Comprehension

Develop positive attitudes to reading and understanding of what they read by:
listening to and discussing a wide range of fiction, poetry, plays, non-fiction and reference books or textbooks
reading books that are structured in different ways and reading for a range of purposes using dictionaries to check the meaning of words that they have read
increasing their familiarity with a wide range of books, including fairy stories, myths and legends, and retelling some of these orally
identifying themes and conventions in a wide range of books
preparing poems and play scripts to read aloud and to perform, showing understanding through intonation, tone, volume and action
discussing words and phrases that capture the reader's interest and imagination
recognising some different forms of poetry (for example, free verse, narrative poetry)

Understand what they read, in books they can read independently, by:
checking that the text makes sense to them, discussing their understanding and explaining the meaning of words in context
asking questions to improve their understanding of a text
drawing inferences such as inferring characters' feelings, thoughts and motives from their actions, and justifying inferences with evidence
predicting what might happen from details stated and implied
identifying main ideas drawn from more than one paragraph and summarising these
identifying how language, structure, and presentation contribute to meaning
retrieve and record information from non-fiction
participate in discussion about both books that are read to them and those they can read for themselves, taking turns and listening to what others say.

Writing: Transcription

use further prefixes and suffixes and understand how to add them (English Appendix 1)
spell further homophones
spell words that are often misspelt (English Appendix 1)
place the possessive apostrophe accurately in words with regular plurals (for example, girls', boys') and in words with irregular plurals (for example, children's)
use the first two or three letters of a word to check its spelling in a dictionary
write from memory simple sentences, dictated by the teacher, that include words and punctuation taught so far.

Writing: Handwriting

use the diagonal and horizontal strokes that are needed to join letters and understand which letters, when adjacent to one another, are best left not joined
increase the legibility, consistency and quality of their handwriting (for example, by ensuring that the down-strokes of letters are parallel and equidistant; that lines of writing are spaced sufficiently so that the ascenders and descenders of letters do not touch).

Writing: Composition

Plan their writing by:
discussing writing similar to that which they are planning to write in order to understand and learn from its structure, vocabulary and grammar
discussing and recording ideas

Draft & write by:
composing and rehearsing sentences orally (including dialogue), progressively building a varied and rich vocabulary and an increasing range of sentence structures (English Appendix 2)
organising paragraphs around a theme
in narratives, creating settings, characters and plot
in non-narrative material, using simple organisational devices (for example, headings and sub-headings)

Evaluate & edit by:

assessing the effectiveness of their own and others' writing and suggesting improvements
proposing changes to grammar and vocabulary to improve consistency, including the accurate use of pronouns in sentences
proof-read for spelling and punctuation errors
read aloud their own writing, to a group or the whole class, using appropriate intonation and controlling the tone and volume so that the meaning is clear.

Writing: Vocabulary, Grammar & Punctuation

Develop their understanding of the concepts set out in English Appendix 2 by:
extending the range of sentences with more than one clause by using a wider range of conjunctions, including when, if, because, although
using the present perfect form of verbs in contrast to the past tense
choosing nouns or pronouns appropriately for clarity and cohesion and to avoid repetition
using conjunctions, adverbs and prepositions to express time and cause
using fronted adverbials

learning the grammar for years 3 and 4 in English Appendix 2

Indicate grammatical and other features by:

using commas after fronted adverbials
indicating possession by using the possessive apostrophe with plural nouns
using and punctuating direct speech
use and understand the grammatical terminology in English Appendix 2 accurately and appropriately when discussing their writing and reading.

Maths

Number: Number & Place Value

count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number
recognise the place value of each digit in a three-digit number (hundreds, tens, ones)
compare and order numbers up to 1000
identify, represent and estimate numbers using different representations
read and write numbers up to 1000 in numerals and in words
solve number problems and practical problems involving these ideas.

Number: Addition & Subtraction

Add and subtract numbers mentally, including:
a three-digit number and ones
a three-digit number and tens
a three-digit number and hundreds
add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction
estimate the answer to a calculation and use inverse operations to check answers
solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.

Number: Multiplication & Division

recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables
write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods
solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.

Number: Fractions

count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10
recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators
recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators
add and subtract fractions with the same denominator within one whole (for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$)
compare and order unit fractions, and fractions with the same denominators
solve problems that involve all of the above.

Measurement

measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
measure the perimeter of simple 2-D shapes
add and subtract amounts of money to give change, using both £ and p in practical contexts
tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks
estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight
know the number of seconds in a minute and the number of days in each month, year and leap year
compare durations of events (for example to calculate the time taken by particular events or tasks).

Geometry: Properties of Shapes

draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them
recognise angles as a property of shape or a description of a turn
identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle
identify horizontal and vertical lines and pairs of perpendicular and parallel lines.

Statistics

interpret and present data using bar charts, pictograms and tables
solve one-step and two-step questions (for example, 'How many more?' and 'How many fewer?') using information presented in scaled bar charts and pictograms and tables.

History

Key Stage 2

Pupils should continue to develop a chronologically secure knowledge and understanding of British, local and world history, establishing clear narratives within and across the periods they study. They should note connections, contrasts and trends over time and develop the appropriate use of historical terms. They should regularly address and sometimes devise historically valid questions about change, cause, similarity and difference, and significance. They should construct informed responses that involve thoughtful selection and organisation of relevant historical information. They should understand how our knowledge of the past is constructed from a range of sources.

changes in Britain from the Stone Age to the Iron Age
the Roman Empire and its impact on Britain
Britain's settlement by Anglo-Saxons and Scots
the Viking and Anglo-Saxon struggle for the Kingdom of England to the time of Edward the Confessor
a local history study
a study of an aspect or theme in British history that extends pupils' chronological knowledge beyond 1066
the achievements of the earliest civilizations – an overview of where and when the first civilizations appeared and a depth study of one of the following: Ancient Sumer; The Indus Valley; Ancient Egypt; The Shang Dynasty of Ancient China
Ancient Greece – a study of Greek life and achievements and their influence on the western world
a non-European society that provides contrasts with British history – one study chosen from: early Islamic civilization, including a study of Baghdad c. AD 900; Mayan civilization c. AD 900; Benin (West Africa) c. AD 900-1300.

Science

Working Scientifically (Lower Key Stage 2)

asking relevant questions and using different types of scientific enquiries to answer them
setting up simple practical enquiries, comparative and fair tests
making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers
gathering, recording, classifying and presenting data in a variety of ways to help in answering questions
recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables
reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions
using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions
identifying differences, similarities or changes related to simple scientific ideas and processes
using straightforward scientific evidence to answer questions or to support their findings.

Plants

identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers.
explore the requirements of plants for life and growth (air, light, water, nutrients from soil and room to grow) and how they vary from plant to plant
investigate the way in which water is transported within plants
explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.

Animals (including humans)

identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat
identify that humans and some other animals have skeletons and muscles for support, protection and movement.

Rocks

compare and group together different kinds of rocks on the basis of their appearance and simple physical properties
describe in simple terms how fossils are formed when things that have lived are trapped within rock
recognise that soils are made from rocks and organic matter.

Light

recognise that they need light in order to see things and that dark is the absence of light
notice that light is reflected from surfaces
recognise that light from the sun can be dangerous and that there are ways to protect their eyes
recognise that shadows are formed when the light from a light source is blocked by a solid object
find patterns in the way that the size of shadows change.

Forces & Magnets

compare how things move on different surfaces
notice that some forces need contact between two objects, but magnetic forces can act at a distance
observe how magnets attract or repel each other and attract some materials and not others
compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials
describe magnets as having two poles
predict whether two magnets will attract or repel each other, depending on which poles are facing.

Geography

Key Stage 2

Locational Knowledge

locate the world's countries, using maps to focus on Europe (including the location of Russia) and North and South America, concentrating on their environmental regions, key physical and human characteristics, countries, and major cities

name and locate counties and cities of the United Kingdom, geographical regions and their identifying human and physical characteristics, key topographical features (including hills, mountains, coasts and rivers), and land-use patterns; and understand how some of these aspects have changed over time

identify the position and significance of latitude, longitude, Equator, Northern Hemisphere, Southern Hemisphere, the Tropics of Cancer and Capricorn, Arctic and Antarctic Circle, the Prime/Greenwich Meridian and time zones (including day and night)

Place Knowledge

understand geographical similarities and differences through the study of human and physical geography of a region of the United Kingdom, a region in a European country, and a region within North or South America

Human & Physical Geography

Describe and understand key aspects of:
physical geography, including: climate zones, biomes and vegetation belts, rivers, mountains, volcanoes and earthquakes, and the water cycle
human geography, including: types of settlement and land use, economic activity including trade links, and the distribution of natural resources including energy, food, minerals and water

Geographical Skills & Fieldwork

use maps, atlases, globes and digital/computer mapping to locate countries and describe features studied
use the eight points of a compass, four and six-figure grid references, symbols and key (including the use of Ordnance Survey maps) to build their knowledge of the United Kingdom and the wider world
use fieldwork to observe, measure, record and present the human and physical features in the local area using a range of methods, including sketch maps, plans and graphs, and digital technologies.

Music

Key Stage 2

- play and perform in solo and ensemble contexts, using their voices and playing musical instruments with increasing accuracy, fluency, control and expression
- improvise and compose music for a range of purposes using the inter-related dimensions of music
- listen with attention to detail and recall sounds with increasing aural memory
- use and understand staff and other musical notations
- appreciate and understand a wide range of high-quality live and recorded music drawn from different traditions and from great composers and musicians
- develop an understanding of the history of music.

Computing

Key Stage 2

- design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
- use sequence, selection, and repetition in programs; work with variables and various forms of input and output
- use logical reasoning to explain how some simple algorithms work and to 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
- use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
- select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information
- use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

Physical Education

Key Stage 2

- use running, jumping, throwing and catching in isolation and in combination
- play competitive games, modified where appropriate (for example, badminton, basketball, cricket, football, hockey, netball, rounders and tennis), and apply basic principles suitable for attacking and defending
- develop flexibility, strength, technique, control and balance (for example, through athletics and gymnastics)
- perform dances using a range of movement patterns
- take part in outdoor and adventurous activity challenges both individually and within a team
- compare their performances with previous ones and demonstrate improvement to achieve their personal best.

Swimming & Water Safety

- All schools must provide swimming instruction either in KS1 or KS2.
- swim competently, confidently and proficiently over a distance of at least 25 metres
- use a range of strokes effectively (for example, front crawl, backstroke and breaststroke)
- perform safe self-rescue in different water-based situations.

Languages

Key Stage 2

- listen attentively to spoken language and show understanding by joining in and responding
- explore the patterns and sounds of language through songs and rhymes and link the spelling, sound and meaning of words
- engage in conversations; ask and answer questions; express opinions and respond to those of others; seek clarification and help*
- speak in sentences, using familiar vocabulary, phrases and basic language structures
- develop accurate pronunciation and intonation so that others understand when they are reading aloud or using familiar words and phrases*
- present ideas and information orally to a range of audiences*
- read carefully and show understanding of words, phrases and simple writing
- appreciate stories, songs, poems and rhymes in the language
- broaden their vocabulary and develop their ability to understand new words that are introduced into familiar written material, including through using a dictionary
- write phrases from memory, and adapt these to create new sentences, to express ideas clearly
- describe people, places, things and actions orally* and in writing
- understand basic grammar appropriate to the language being studied, including (where relevant): feminine, masculine and neuter forms and the conjugation of high-frequency verbs; key features and patterns of the language; how to apply these, for instance, to build sentences; and how these differ from or are similar to English.

The starred (*) content will not be applicable to ancient languages.

Design & Technology

Key Stage 2

Design

- 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

Make

- select from and use a wider range of tools and equipment to perform practical tasks (for example, 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

Evaluate

- 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

Technical Knowledge

- apply their understanding of how to strengthen, stiffen and reinforce more complex structures
- understand and use mechanical systems in their products (for example, gears, pulleys, cams, levers and linkages)
- understand and use electrical systems in their products (for example, series circuits incorporating switches, bulbs, buzzers and motors)
- apply their understanding of computing to program, monitor and control their products.

Cooking & Nutrition

- 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.

Art & Design

Key Stage 2

- to create sketch books to record their observations and use them to review and revisit ideas
- to improve their mastery of art and design techniques, including drawing, painting and sculpture with a range of materials (for example, pencil, charcoal, paint, clay)
- about great artists, architects and designers in history.