# **New National Curriculum 2014: Year 4**

## **Enalish**

### Lower Key Stage 2

### Spoken Language (Years 1 to 6)

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  Istern 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

- 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 need further exception words, noting the unusual correspondences between spelling and sound, and where these occur in the word.

### Reading: Comprehension

- listening to and discussing a wide range of fiction, poetry, plays, non-fiction and reference books or textbook

- books or textbooks retextbooks retextbooks are textbooks or textbooks and textbooks 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) directstand 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 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

- es and suffixes and understand how to add them (English Appendix 1)

- use further prefixes and suffixes and understand how to add them (English Appendix 1) spell further homophones spell words that are often miss-pell (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

- ung: Hanowriting use the diagonal and horizontal strokes that are needed to join letters and understand which letters, when adjacent to one another, are best left unjoined increase the leighbity, consistency and quality of their handwriting flor 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!

- 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:
   composition

- pt & write by: composing and rehearsing sentences orally (including dialogue), progressively building varied and rich vocabulary and an increasing range of sentence structures (English Appendi 2)
- 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
- 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

- Iuma; vocaoulary, Grammar & Punctuation elep 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 cobesion and to avoid repetition using conjunctions, adverbs and prepositions to express time and cause using fronted adverbials
- and continuously monted adverbals

   learning the grammar for years 3 and 4 in English Appendix 2 didcate grammarical and other features by:

   using commas after fronted adverbals

   indicating possession by using the

- using common after fromed divertibilist 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.

## Languages

### Key Stage 2

- Key Stage 2

  Instem 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 sound and meaning of words of others, seek clarification and nasver 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

- 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 storred (\*) content will not be applicable to oncient languages.

## **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
   develon 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 breaststrokel

   perform safe self-rescue in different water-based situations.

## Maths

- Number: Number & Place Value

   count in multiples of 6, 7, 9, 25 and 1000

   find 1000 more or less than a given number

   count backwards through zero to include negative numbers

   count backwards through zero to include no form of the place value of each digit in a four-digit number (thousands, hundreds, tens,
- and ones) order and compare numbers beyond 1000 identify, represent and estimate numbers using different representations round any number to the nearest 10, 100 or 1000 solve number and practical problems that involve all of the above and with increasingly large positive numbers read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.

### Number: Addition & Subtraction

- namer: Audition & Subtraction

  add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate estimate and use inverse operations to check answers to a calculation solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.

- Number: Multiplication & Division

   recall multiplication and division facts for multiplication tables up to 12 12

   use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers

   recognise and use factor pairs and commutativity in mental calculations

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   multiply two-digit and three-digit numbers by a one-digit number using formal written layout

   solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, interper scaling problems and harder correspondence problems such as n objects are connected to m objects.

### Number Fractions

- recognise and show, using diagrams, families of common equivalent fractions
   recognise and down in hundredths; recognise that hundredths anse when dividing an object by one hundred and dividing tenths by ten.
   solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number add and subtract fractions with the same denominator
   recognise and write decimal equivalents of any number of tenths or hundredths
   recognise and write decimal equivalents of 14, 17, 23, 14
   the digits in the answer as ones, tenths and hundredths
   round decimals with one decimal place to the nearest whole number
   compare numbers with the same number of decimal places up to two decimal places
   solve simple measure and money problems involving fractions and decimals to two decimal places

- convert between different units of measure [for example, kilometre to metre; hour to minute] measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres
- and metres find the area of rectilinear shapes by counting squares estimate, compare and calculate different measures, including money in pounds and pence

- Geometry: Properties of Shapes
   compare and classify geometric shapes, including quadrilaterals and triangles, based
- identify acute and obtuse angles and compare and order angles up to two right angles by

### Geometry: Position & Direction

- vections y: rusition is Ulfection

   describe positions on a 2-D grid as coordinates in the first quadrant

   describe movements between positions as translations of a given unit to the left/right and up/down
- plot specified points and draw sides to complete a given polygon Statistics
- interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs. Complete a simple symmetric figure with respect to a specific line of symmetry.

- complete a surpre-up...

  Geometry: Position & Direction
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   plot specified points and draw sides to complete a given polygon

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- including bar charts and time graphs.

  solve comparison, sum and difference problems using information presented in bar chapictograms, tables and other graphs.

# **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, extiles and ingredients, according to their functional properties and aesthetic qualities

- 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 completed.
- apply their understanding of how to strengthen, stiffen and reinforce more complex structured and use mechanical systems in their products [for example, gears, pulleys, cams, levers and inicages] 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 seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.

# Computing

- 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 and collaboration or search technologies effectively, appreciate how results are selected and ranked, and be discernine in evaluation didictle content.
- Use SearCh Decrinologies enecturely, appreurate now reams are searched and 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
- use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.



# **Science**

- asking relevant questions and using oirretent types of scientific enquiries to answer them setting up simple practical enquiries, comparative and fair testpropriate; taking accurate making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of enquirient, including thermometers
- , i findings using simple scientific language, drawings, labelled diagrams, keys, bar

- using straightforward scientific evidence to answer questions or to support their findings.

# Living Things & Their Habitats • recognise that living things can be grouped in a variety of ways • explore and use classification keys to help group, identify and name a variety of living things

- recognise that living things can be grouped in a variety of ways
   explore and use classification keys to help group, identify and name a variety of living th in their local and wider environment
   recognise that environments can change and that this can sometimes pose dangers to live
- Animals (including humans)

- gases
  observe that some materials change state when they are heated or cooled, and measure or
  research the temperature at which this happens in degrees Celsius ('C)
   identify the part played by evaporation and condensation in the water cycle and associate
  the rate of evaporation with temperature.

- Electricity

   identify common appliances that run on electricity
   construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers
   identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery
   reconjies that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit
   reconjies esome common conductors and insulators, and associate metals with being good conductors.

чрежного шоли члище, сшизе, элиши ity and aijference, 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.

- the Roman Empire and its impact on Britain
   Britain's settlement by Anglo-Saxons and Scots
   the Wiking and Anglo-Saxon struggle for the Kingdom of England to the time of Edward the
   Con Many and Anglo-Saxon struggle for the Kingdom of England to the time of Edward the

# **Art & Design**

- sketch books to record their observations and use them to review and revisit
- locas

  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.

# Geography

- Kev Stage 2 Locational Knowledge
- ational 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 Topics of Gancer and Capricorn, Arctic and Antarctic Circle, the Prime / Greenwich Meridian and time zones (including day and night)

- ce 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 numan or Priysical Geography
  bescribe and understand key aspects of:
  physical geography, including: dimate 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

- 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

- 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
- mensions 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.

- Working Scientifically (Lower Key Stage 2)

  Working Scientific and usual musclings and using different types of scientific enquiries to answer them
  - апи имы IUggers 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.

- Annais (including numans)

   describe the simple functions of the basic parts of the digestive system in humans

   identify the different types of teeth in humans and their simple functions

   construct and interpret a variety of food chains, identifying producers, predators and pr

- nd identify how sounds are made, associating some of them with something vibrating recognise that wibrations from sounds travel through a medium to the ear indip patterns between the pitch of a sound and features of the object that produced it find patterns between the volume of a sound and the strength of the vibrations that prod
- recognise that sounds get fainter as the distance from the sound source increases.
- Electricity

- Conressor 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.