New National Curriculum 2014: Year 4

English Lower Key Stage 2

Spoken Language (Years 1 to 6)

- listen and respond appropriately to adults and their
- · 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 these occur in the word.

- 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
- 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
- olscussing 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 receipt of

- their understanding and explaining the meaning of words in context
- asking questions to improve their understanding of a
- 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
- · 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 miss-pelt (English Appendix
- 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

- Writing: Handwriting
 use the diagonal and horizontal strokes that are needed to join letters and understand which letters, when
- to join letters and understand which letters, when adjacent to one another, are best left unjoined •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). structures (English Appendix 2)

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
- recognise 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

- 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
- · 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, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.

- recognise and show, using diagrams, families of common
- recognise and snow, using diagrams, ramilies of common equivalent fractions
 count up and down in hundredths; recognise that hundredths arise 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 to 1/4, 1/2,
- find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of 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

Measurement

- 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 on their properties
- identify acute and obtuse angles and compare and order angles up to two right angles by size
 •identify lines of symmetry in 2-D shapes presented in
- different orientations
 complete a simple symmetric figure with respect to a
- specific line of symmetry

Geometry: Position & Direction

- · 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.

- interpret and present discrete and continuous data using appropriate graphical methods, including bal charts and time graphs.
- solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.

Science

Working Scientifically (Lower Key Stage 2)

- ng relevant questions and using different types of scientific enquiries to answer them.
- setting up simple practical enquiries, comparative and
- making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers
- agathering, 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 • using results to draw simple conclusions, make predictions
- 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 s Develop their unders 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
- 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.

- for new values, suggest improvements and raise further
- identifying differences, similarities or changes related to simple scientific ideas and processes

 using straightforward scientific evid
- findings.

Living Things & Their Habitats

- cognise that living things can be grouped in a variety
- explore and use classification keys to help group, identify and name a variety of living things in their local and wider
- recognise that environments can change and that this

- can sometimes pose dangers to living things. **Animals (including humans)** 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 predators and prey

States of Matter

- compare and group materials together, according to whether they are solids, liquids or 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
- identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.

- identify how sounds are made, associating some of them
- with something vibrating
 recognise that vibrations from sounds travel through a medium to the ear
- find 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 produced it
 recognise that sounds get fainter as the distance from

und source increases.

- Electricity
- identify common appliances that run on electricity
 construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs,
- 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
- recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit
- recognise some common conductors and insulators, and associate metals with being good conductors.

