New National Curriculum 2014: Year 6

English

Upper 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

- 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
- · participate in discussions, presentations, performances, role

- participate in accussions, persentations, performances, fore 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 (morphology and etymology), as listed in English Appendix 1, both to read aloud and to understand the meaning of new words that

Reading: Comprehension
Maintain positive attitudes to reading and understanding of what
they read by:
• continuing to read and discuss an increasingly 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
- increasing their familiarity with a wide range of books, including myths, legends and traditional stories, modern fiction, fiction from our literary heritage, and books from other cultures and traditions
- recommending books that they have read to their peers, giving reasons for their choices
- identifying and discussing themes and conventions in and across a wide range of writing making comparisons within and across books

- learning a wider range of poetry by heart
 preparing poems and plays to read aloud and to perform, showing understanding through intonation, tone and volume so that the

- meaning is clear to an audience

 Understand what they read by:

 checking that the book makes sense to them, discussing their understanding and exploring the meaning of words in context

 asking questions to improve their understanding of drawing inferences such as inferring characters' feelings, thoughts and motives from their actions, and justifying inferences with evidence with evidence
- predicting what might happen from details stated and implied
 summarising the main ideas drawn from more than one paragraph, identifying key details that support the main ideas
- identifying how language, structure and presentation contribute to meaning
- discuss and evaluate how authors use language, including
- figurative language, considering the impact on the reader
 distinguish between statements of fact and opinion
 retrieve, record and present information from non-fiction
- retrieve, record and present information from non-inction participate in discussions about books that are read to them and those they can read for themselves, building on their own and others' ideas and challenging views courteously
 explain and discuss their understanding of what they have read, including through formal presentations and debates, maintaining a focus on the topic and using notes where necessary
 provide reasoned justifications for their views.

Writing: Transcription

- use further prefixes and suffixes and understand the guidance for adding them
 spell some words with 'silent' letters [for example, knight, psalm,
- solemnl
- continue to distinguish between homophones and other words which are often confused
- use knowledge of morphology and etymology in spelling and understand that the spelling of some words needs to be learnt specifically, as listed in English Appendix 1

 use dictionaries to check the spelling and meaning of words

 use the first three or four letters of a word to check spelling, meaning or both of these in a dictionary

- use a thesaurus.

Writing: Handwriting & Presentation

Write legibly, fluently and with increasing speed by:

• choosing which shape of a letter to use when given choices and deciding whether or not to join specific letters

• choosing the writing implement that is best suited for a task.

Writing: Composition

- Plan their writing by:

 identifying the audience for and purpose of the writing, selecting. the appropriate form and using other similar writing as models for their own
- noting and developing initial ideas, drawing on reading and
- research where necessary in writing narratives, considering how authors have developed characters and settings in what pupils have read, listened to or

- seen performed
 Draft and write by:
 selecting appropriate grammar and vocabulary, understanding how such choices can change and enhance meaning
- in narratives, describing settings, characters and atmosphere and integrating dialogue to convey character and advance the action practising longer passages
- using a wide range of devices to build cohesion within and across
- using further organisational and presentational devices to structure text and to guide the reader (for example, headings, bullet points, underlining).

 Evaluate and edit by:

 assessing the effectiveness of their own and others' writing

- proposing changes to vocabulary, grammar and punctuation to enhance effects and clarify meaning

Number: Number & Place Value

- read, write, order and compare numbers up to 10 000 000 and
- determine the value of each digit round any whole number to a required degree of accuracy
- · use negative numbers in context, and calculate intervals across
- solve number and practical problems that involve all of the above

- Number: Addition & Subtraction
 solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
 - perform mental calculations, including with mixed operations and
- use their knowledge of the order of operations to carry out calculations involving the four operations
 solve problems involving addition, subtraction, multiplication and
- division
- use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.

 Italic objectives are in both addition and subtraction, and multiplication

Number: Multiplication & Division

- Imper: Multiplication & Division

 multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication

 divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret
- using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context

 divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context

 identify common factors, common multiples and prime numbers
- · perform mental calculations, including with mixed operations and
- · use their knowledge of the order of operations to carry out calculations involving the four operations
 • solve problems involving addition, subtraction, multiplication and
- use estimation to check answers to calculations and determine.
- in the context of a problem, an appropriate degree of accuracy. Italic objectives are in both addition and subtraction, and multiplication

Science

- **Number: Fractions** use common factors to simplify fractions; use common multiples to
- express fractions in the same denomination
 compare and order fractions, including fractions > 1
 add and subtract fractions with different denominators and mixed
- numbers, using the concept of equivalent fractions
 multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $1/4 \times 1/2 = 1/8$]
- divide proper fractions by whole numbers [for example, 1/3 of 2
- = 1/0]
 associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example,
- identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places multiply one-digit numbers with up to two decimal places by whole

planning different types of scientific enquiries to answer questions, including recognising and controlling variables where

necessary taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings

when appropriate recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter

graphs, bar and line graphs

using test results to make predictions to set up further comparative and fair tests reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree

• ensuring the consistent and correct use of tense throughout a piece of writing

ensuring correct subject and verb agreement when using singular

and plural, distinguishing between the language of speech and writing and choosing the appropriate register proof-read for spelling and punctuation errors

perform their own compositions, using appropriate intonation, volume, and movement so that meaning is clear.

Writing: Vocabulary, Grammar & PunctuationDevelop their understanding of the concepts set out in English Appendix

recognising vocabulary and structures that are appropriate for

formal speech and writing, including subjunctive forms
• using passive verbs to affect the presentation of information in a

· using the perfect form of verbs to mark relationships of time and · using expanded noun phrases to convey complicated information

 using modal verbs or adverbs to indicate degrees of possibility using relative clauses beginning with who, which, where, when, whose, that or with an implied (i.e. omitted) relative pronoun

learning the grammar for years 5 and 6 in English Appendix 2. Indicate grammatical and other features by:
 using commas to clarify meaning or avoid ambiguity in writing
 using hyphens to avoid ambiguity

using brackets, dashes or commas to indicate parenthesis
 using semi-colons, colons or dashes to mark boundaries between independent clauses

using a colon to introduce a list
 punctuating bullet points consistently
 use and understand the grammatical terminology in English Appendix

2 accurately and appropriately in discussing their writing and reading

Working Scientifically (Upper Key Stage 2)

- use written division methods in cases where the answer has up
- solve problems which require answers to be rounded to specified
- degrees of accuracy recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.

Measurement

- solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where
- · use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places
- convert between miles and kilometres
 recognise that shapes with the same areas can have different perimeters and vice versa
- recognise when it is possible to use formulae for area and volume of shapes
- · calculate the area of parallelograms and triangles
- calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³), and extending to other units [for example, mm³ and

Geometry: Properties of Shapes

- draw 2-D shapes using given dimensions and angles
 recognise, describe and build simple 3-D shapes, including making
- compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons
- illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius
 recognise angles where they meet at a point, are on a straight
- line, or are vertically opposite, and find missing angles

Geometry: Position & Direction

describe positions on the full coordinate grid (all four quadrants)
 draw and translate simple shapes on the coordinate plane, and reflect them in the axes.

interpret and construct pie charts and line graphs and use these

to solve problems
calculate and interpret the mean as an average Ratio & Proportion • solve problems involving the relative sizes of two quantities where

- missing values can be found by using integer multiplication and division facts solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of
- percentages for comparison solve problems involving similar shapes where the scale factor is known or can be found
- solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.

- generate and describe linear number sequences
- express missing number problems algebraically find pairs of numbers that satisfy an equation with two unknowns
- enumerate possibilities of combinations of two variables.

other presentations • identifying scientific evidence that has been used to support or refute ideas or arguments.

Living Things & their Habitats describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants

of trust in results, in oral and written forms such as displays and

and animals

• give reasons for classifying plants and animals based on specific

Animals (including humans)

- identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood
 recognise the impact of diet, exercise, drugs and lifestyle on the
- way their bodies function

 describe the ways in which nutrients and water are transported within animals, including humans.

Evolution & Inheritance

- recognise that living things have changed over time and that fossils provide information about living things that inhabited the
- tossils provide information about living tinings that inhabited the Earth millions of years ago

 recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.

- recognise that light appears to travel in straight lines
 use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the
- eye eye explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.

- associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit
 compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches
- · use recognised symbols when representing a simple circuit in a

