New National Curriculum 2014: Year 6

Enalish

Upper Key Stage 2

- Upper Key Stage 2

 Spoken Language (Years 1 to 6)

 isten and respond appropriately to adults and their peers

 ask relevant questions to extend their understanding and knowledge

 use relevant strategies to build their vocablows and harvatives for different purposes, including for eight structured descriptions, explanations and narratives for different purposes, including for expressing feelings 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, stending to and building on the contributions of others

 select and use appropriate registers for effective communication.

Reading: Word Reading

Reading: Comprehension

- munity: Unity/renension
 intain 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
- reference books or textbooks
 reading 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 reaning was increasing their familiarity with a whole increasing their familiarity f

- preparing poems and plays to read aloud and to perform, showing understanding through intonation, none and volume so that the meaning is clear to an audience.
 Understand what the book makes sense to them, discussing their understanding and exploring the ability of the properties of the prope

- Writing: Transcription

 use further prefixes and suffixes and understand the guidance for adding them
 spell some words with 'slient' letters (for example, knight, psalm, solerno)

 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
 distribution.

- Writing: Handwriting & Presentation
- rrung: nanowrung & rresentation
 'tile legibly, fluently and with increasing speed by:

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

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

- n their writing by: identifying the audience for and purpose of the writing, selecting the appropriate form and using other smilar 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.

- pupils have read, istelned to us seen jearnment.

 Ortfort of write for

 esecting appropriate grammar and vocabulary, understanding how such choices can change an enhance meaningriting settings, characters and atmosphere and integrating dialogue to convict character and advance the action.

- cmaracter and advance the action practising longer passages using a wide range of devices to build cohesion within and across paragraphs using further organisational and presentational devices to structure text and to guide the reader (for example, headings, bullet points, underlining).

- Itor example, headings, guiet points, undernings, lucited 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 ensuring the consistent and correct use of tense throughout a piece of writing ensuring correct subject and web-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.

- meaning is clear.

 Writing: Vocabulary, Grammar & Punctuation
 Develop their understanding of the concepts set out in English Appendix 2 by:

 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 sentence

 using perpanded nour phrases to convey complicated information concisely

 using expanded nour phrases to convey complicated information concisely

 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 contains to clarify meaning or avoid ambiguity in writing

 using hyphens to avoid ambiguity

 using bramsas to clarify meaning or avoid ambiguity in writing

 using semi-colons, colons or dashes to mark boundaries between independent clauses

 using a colon to introduce a lornmark of the properties of the prope

Languages

- Example 2
 Islaten 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' oscibulary, phrases and basic language structures speak in sentence, using lamilar distributions to 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 brace of the stories of the speak of the s

Music

Key Stage 2

- 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 and wither ange of high-quality live and recorded music drawn from
 different traditions and from great comperers and musicians
 develop an understanding of the history of music.

Maths

- Number: Number & Place Value

 read write, order and compare numbers up to 10 000 000 and determine the value of each digit

- Number: Addition & Subtraction
 solve addition and subtraction multi-step problems in contexts, deciding which operations and
 - perform mental calculations, including with mixed operations and large numbers 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, of

 talk cobjectives are in both addition and subtraction, and multiplication and division

- Number: 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 remainders as whole number remainders, fractions, or by rounding, as divide numbers up to 4 digits by a two-digit whose number using the turne wincer measure ong 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 large numbers
 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 and division

- 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 ent fractions simple pairs of proper fractions, writing the answer in its simplest form [for example, 1/4

Indiginal shape pairs on proper fractions, writing the absence in this shapes in this solution to example, 74 x1/2 = 1/8/1 divide proper fractions by whole numbers (for example, 1/3 of 2 = 1/6) associated infraction with division and calculate decimal fraction equivalents (for example, 0.375) for associated infraction (for example, 2) as 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 whole numbers multiply one-digit numbers with up to two decimal places by whole numbers use written division methods in case where the answer has up to two decimal places 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

- assurement

 solve problems involving the calculation and conversion of units of measure, using decimal notation
 up to three decimal places where appropriate
 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 amounts for see 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 km³).

- metry: Properties of Shapes
- draw 2.0 shapes using given dimensions and angles recognise, describe and build simple 3.0 shapes, including making nets croopare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons litustrate 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

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

- USICS
 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 usequed sharing and grouping using knowledge of fractions and multiples.

- Algebra

 use simple formulae

 ugenrate and describe linear number sequences

 express missing number problems algebraically

 Infol pairs of numbers that satisfy an equation with two unknowns

 enumerate possibilities of combinations of two variables.

History

Key Stage 2

- 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
- Contessor 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.

Physical Education

- Nage 2. use running, jumping, throwing and catching in isolation and in combination play competitive games, modified where appropriate (for example, badminton, basketball, cricket, lootabl, inockey, netball, rounders and tennish, and apply basic principles suitable for attacking and defending and developing and the competitive of the competitive
- develop lexibility, strengin, technique, control and balance for example, through atmetics a gymnastics]
 perform diances 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 personal best.

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- 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 struckes effectively (for example, front craw), backstroke and breaststrokel

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

Science

- Working Scientifically (Upper Key Stage 2)

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 planning different types of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate recording variables where necessary taking repeat readings when appropriate recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, but and line graphs classification keys, tables, scatter graphs, but and line graphs recording data of the scatter graphs, but and line graphs are reporting and treats reporting and researching friends from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and 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 and animals

 give reasons for classifying plants and animals based on specific characteristics.

- Animals (including humans)

 identify and name the main parts of the human circulatory system, and describe the functions of
- 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

- INJURI S. IMPERITAINCE
 recognise that living things have changed over time and that fossils provide information about recognise that living things 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.

- ht 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 intion the 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.

- Security
 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 bubs, the loudness of buzzers and the on/off position of switches use recognised symbols when representing a simple circuit in a diagram.

Geography

Key Stage 2

- 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 countries and cities of the United Kingdom, geographical regions and their identifying human and physical characteristics, key topographical features including hilis, mountains, coasts and rivers, and land-use patterns, and understand how some of these aspects

 identify the position and significance of latitude, longitude, Equator, Northern Hemisphere, Southern Hemisphere, the Projocs 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.
- man & Physical Geography

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

- Nake 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

- Technical Knowledge
- incorporating switches, but are supply their understanding of how to strengthen, stiffen and reinforce more complex structures apply their 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, bubbs, 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.

- **Computing**
- and debug programs that accomplish specific goals, including controlling or simulating ensolve problems by decomposing them into smaller parts e, selection, and repetition in programs; work with variables and various forms of input and
- 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 week, 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).
- in evaluating digital content seems of the content of the content of the content of the 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, records acceptable /unacceptable behaviour; identify a range of ways to report concerns about content and contact.

Art & Design

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