# **New National Curriculum 2014: Year 5**

## **Enalish**

### Upper Key Stage 2

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  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: Cuttiprenension
  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 that are structured in different ways and reading for a range of purposes 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 clear of the state of th

- Writing: Transcription

   use further prefixes and suffixes and understand the guidance for adding them spell some words with 'slient' letters [for example, knight, psalm, solerm]

   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 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.

- pupils have read, isseneu to us seen jeen common.

  Ortf and write by:

   selecting appropriate grammar and vocabulary, understanding how such choices can change a
  enhance meaning

   in narratives, describing settings, characters and atmosphere and integrating dialogue to conv
  monarrar and advance the action

- character and advance the action summarising longer passages build cohesion within and across paragraphs using lumber organisational and presentational devices to structure text and to guide the reader lore earnigh, headings, builer 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 the perfect form of verbs to mark relationships of time and cause

   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 S and 6 in English Appendix 2.

   Indicate grammatical and other features by:

   using commans to dairly meaning or avoid ambiguity in writing

   using hyphens to avoid ambiguity

   using bythess, dashes or commas to indicate parenthesis

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

   using semi-colons to introduce a indicate parenthesis

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

   using a colon to introduce a inframatical terminology in English Appendix 2 accurately and appropriately in discussing their writing and reading.

## **Physical Education**

- use I uning, In Juning, In volving and Lacking in Insolation's and introllabilitation 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 deflending develop flexibility, strength, technique, control and balance (for example, through athletics and gymnastics)

- 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.

### Music

- 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 understands and erange of high-caulaf live and recorded music drawn from
  different traditions and from great composers and musicians
  develop an understanding of the history of music.

## Maths

- Number: Number & Place Value

   road write order and compare numbers to at least 1 000 000 and determine the value of each
  - read, write, order and compare numbers to at least 1 000 000 and 1000 000 out forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 interpret negative numbers in context, count forwards and backwards with positive and negwhole numbers, including through order or and any number up to 1 000 000 to the nearest 10, 100, 1000, 1000 and 100 000 solven uncher problems and practical problems that involve all of the above read Roman numerals to 1000 (W) and recognise years written in Roman numerals.

### Number: Addition & Subtraction

- INDEX: AUGUSTOR ON SUMMACKION

  and and subtract whole numbers with more than 4 digits, including using formal written methods
  (columnar addition and subtraction)

  and and subtract numbers mentally with increasingly large numbers
  use rounding to check answers to calculations and determine, in the context of a problem, levels
  of accordance.
- of accuracy solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.

- Number: Multiplication & Division

  \*\*Stantile multiplication & Divisio
  - identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers for two numbers who was duse the vocabulary of prime numbers, prime factors and composite (non-prime) numbers establish whether a number up to 100 is prime and recall prime numbers up to 19 multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers multiply and divide numbers mentally drawing upon known facts divide numbers mentally drawing upon known facts divide numbers and to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)

- (3) solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes are considered to the control of th

### Number: Fractions

- lumber: Fractions
   compare and order fractions whose denominators are all multiples of the same number
   identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths
   recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements at as a mixed number (for example, 2/5 + 4/5 = 6/5 = 11/5)
   add and subtract fractions with the same denominator and denominators that are multiples of the
- number y proper fractions and mixed numbers by whole numbers, supported by materials and

- multiply proper fractions and mixed numbers by writer numbers a, suppose or grading arms read and write decimal numbers as fractions [for example, 0.71 = 71/100] reacognise and use thousandits and relate them to tenths, hundredths and decimal equivalents round decimals with two decimal places to the nearest whole number and to one decimal place read, write, order and compare numbers with up to three decimal places solve problems involving number up to three decimal places recognise the per cent symbol (5) and understand that per cent relates to 'number of parts per hundred,' and write percentages as a fraction with denominator 100, and as a decimal solve problems which require howing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5, and those tractions with a denominator of a multiple of 10 or 25.

- assurement

  convert between different units of metric measure (for example, kilometre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and prins measure and caultate the perimeter of composite rectlinear shapes in centimetres and metres calculate and compare the area of rectangles (including sugares), and including using standard units, square centimetres (cm2) and sparae metres (m2) and estimate the area of irregular shapes estimate volume (for example, using 1 cm3 blocks to build cuboids (including cubes)) and capacity (for example, using water) solve problems involving converting between units of time use all four operations to solve problems involving measure (for example, length, mass, volume, money) using decimal notation, including scaling.

- seometry: Properties of Shapes

   identify 3-0 shapes, including cubes and other cuboids, from 2-0 representations

   use the properties of rectangles to deduce related facts and find missing lengths and angles

   distinguish between regular and irregular polygons based on reasoning about equal sides and

  analysis.
- angles. know angles are measured in degrees estimate and compare acute, obtuse and reflex angles draw given angles, and measure them in degrees (<sup>5</sup>) identify angles at a point and one whole turn (total 360°) identify angles at a point and one straight line and half a turn (total 180°) identify other mitigles of 90°.

### Geometry: Position & Direction

### Statistics solve comparison, sum and difference problems using information presented in a line graph complete, read and interpret information in tables, including timetables.

## Geography

### Key Stage 2

### Locational Knowledge

- cational 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 returnes (including hils,
  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 Cancer and Capricorn, Arctic and Antarctic Circle, the
  Prime/Greenwich Meridian and time zones (including day and night).

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

- bearing an organic except any appects of bearing and property of the property Geographical Skills & Fieldwork

  • roc mans, atlases, globes and digital /computer mapping to locate countries and describe
- Use Intips, ariases, groups and arguar companies in appears in the 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 word 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.

# Computing

- les and various forms of input and
- use sequence, selection, and repetition in programs, work with variances and various forms on input and confect areas of the programs. Some simple algorithms work and to detect and correct errors in 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 rarked, and be discerning in evaluating digital content variety of software (including internet services) on a range of digital devices select, use and contents are select, one and contents are very controlled to the content of the controlled programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.
- - twinkl visit twinkl.com

## **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 trests 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 the differences in the life cycles of a mammal, an amphibian, an insect and a bird
- describe the life process of reproduction in some plants and animals. Animals (including humans)

• describe the changes as humans develop to old age.

- Properties & Changes of Materials

- operties & Changes of Materials
  compare and group together everyday materials on the basis of their properties, including their
  hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets
  know that some materials will dissolve in liquid to form a solution, and describe how to recover a
  substance from a solution
  use knowledge of solids, liquids and gases to decide how mixtures might be separated, including
  through filtering, selving and evaporating
  give reasons, based on evidence from comparative and fair tests, for the particular uses of
  everyday materials, including match, wood and plastic
  demonstrate that dissolving, mixing and changes of state are reversible changes
  explain that some changes result in the formation of new materials, and that this kind of change
  is not usually reversible, including changes associated with burning and the action of acid on
  blocarbonate of socials.

- Earth & Space

   describe the movement of the Earth, and other planets, relative to the Sun in the solar system

   describe the movement of the Moon relative to the Earth

   describe the Sun, Earth and Moon as approximately spherical bodies

   use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.

- orces

   explain that unsupported objects fall towards the Earth because of the force of gravity acting
  between the Earth and the falling object
  identify the effects of air resistance, water resistance and friction, that act between moving
  surfaces

   recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have
  a greater effect.

# History

ey Stage 2 Stage 2 sis should continue to develop a chronologically secure knowledge and understanding of British, and world history, establishing dear narratives within and across the periods they study. They did note connections, contrasts and trends over time and develop the appropriate use of historical ris. They should regularly address and sometimes devise historically valid questions about change, similarly and difference, and significance. They should construct informed responses that in-the thoughful selection and organisation of relevant historical information. They should understand 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
   Settlement by Angio-Saxons and Scots
   the Viking and Angio-Saxon struggle for the Kingdom of England to the time of Edward the Confessor
- local history study i study of an aspect or theme in British history that extends pupils' chronological knowledge levend 1066. beyond 1066
  the achievements of the earliest civilizations – an overview of where and when the first civilizations papeared 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 900-1900.

# **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

# Technical Knowledge Rechnical 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 lift-inkages] 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

# Languages

- Cey Stage 2

  Isten attentively to spoken language and show understanding by joining in and responding explore attentively to spoken language and show understanding by joining in and responding explore a 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' or speak in sentences, using familiar vocabulary, phrases and basic language structures develop accurate pronunciation and intensions to that of their sudderstand when they are reading persent 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 written 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) femiline, masculine and neutre forms and the conjugation of high-frequency vertisk, key features and patterns of the language how to apply these, for instance, to build sentences; and how these differ from or are smiliar to folipish.

# **Art & Design**