

National Curriculum 2014 - Vear 5

ENGLISH

Reading

- . Apply knowledge of morphology and etymology when reading new words
- . Read and discuss a broad range of texts.
- Read books structured in different ways: read for a range of numoses.
- e Decommend hooks to others
- · Identify and discuss themes and conventions and make comparisons
- . Learn a wider range of poetry by heart.
- . Prepare poems/plays to read aloud and perform
- . Check for sense and ask questions to improve understanding
- Draw inference and make predictions
- Summarise main ideas
- · Identify how structure and presentation contribute to meaning
- . Discuss authors' use of language
- . Distinguish between fact and opinion
- Retrieve, record and present information from non-fiction
- . Discuss books they read and hear
- · Explain and discuss their understanding, including through formal presentations and debates
- . Justify their views

Writing

- . Spell: words with prefixes, suffixes and silent letters; homophones and other confusing words; using knowledge of morphology and etymology
- Use a thesaurus/dictionary to check meanings/
- · Write legibly, fluently and with increasing speed . Plan writing; to suit audience and purpose; noting and developing initial ideas; considering how
- authors develop characters and settings · When writing: select appropriate grammar and vocabulary; use linking, organisational and presentational devices; in narratives, use dialogue and develop character, setting and atmosphere
- · Précis longer passages
- · Assess effectiveness of own and others' writing and propose changes to enhance effect and clarify

- . Check writing for: correct and consistent tenses: subject/verb agreement; distinction between spoken/written language; appropriate register; correct spelling and punctuatio
- Perform own compositions
- . Understand formal language structures, including sublunctive
- . Use; expanded noun phrases; modal and passive verbs; relative clauses
- . Use: commas and hyphens to avoid ambiguity; brackets, dashes and commas for parenthesis; semi colons, colons or deshes between independent clauses; colons in lists; punctuation of builet points
- . Learn and use grammar and terminology in Appendix 2

Spoken language

- . Listen and respond appropriately
- · Ask relevant questions
- . Build vocabulary
- . Articulate and justify own ideas.
- . Describe, explain and narrate for different purposes; express feelings
- · Participate actively in conversations
- . Speculate, hypothesise and explore ideas
- . Speak clearly and fluently in Standard English . Take part in discussions, presentations.
- performances, role-play, improvisations and
- . Keep listeners interested
- . Explore different viewpoints
- . Communicate effectively using appropriate register

SCIENCE

- Explain life cycle differences in a mammal. amphibian, insect and bird
- . Describe reproduction in some plants and animal
- Describe changes as humans develop and age
- . Classify materials according to various properties
- Know that some materials dissolve in water to form a solution
- Senarate mixtures of materials.
- . Give reasons for particular uses of everyday materials
- Explore reversible changes and changes that are difficult to reverse
- . Describe the movement of Earth and other planets relative to the Sun and of the Moon relative to Earth
- Use Earth's rotation to explain day and night. . Explore the effects of gravity and friction (including air and water resistance)
- Know that some mechanisms magnify forces

Working scientifically

- . Plan different types of enquiry to answer questions
- Take accurate measurements and repeat them if needed
- · Record increasingly complex data in various
- . Use results to make predictions and suggest further tests.
- · Present findings orally and in writing
- . Identify scientific evidence for or against an

DESIGN AND TECHNOLOGY (KS2)

- . Develop products fit for purpose · Communicate design ideas in
- various ways . Use a wider range of tools and
- . Evaluate existing products and Improve own products
- Build and strengthen more. complex structures
- . Use mechanical, electrical and computing systems in own products
- Understand and apply principles of a healthy diet
- . Prepare and cook mainly savoury
- Understand seasonality

GEOGRAPHY (KS2)

- · Locate the world's countries, focusing on Europe and the America
- . Study UK counties, cities, regions, physical features, land use and changes over time
- . Identify the lines and zones on a globe, including time zones
- · Compare a UK region with one in Europe and one in the Americas
- . Understand key aspects of physical and human geography
- . Use maps, attases, globes and digital/computer mapping
- . Use eight points of the compass. four- / six-figure grid references. symbols and keys
- . Use a range of methods to study the local area

HISTORY (KS2)

- . Changes in Britain from Stone Age to Bronze Age
- Roman Empire and its impact on Britain . Settlement of Britain by Anglo-Saxons and Scots
- · Vikings and Anglo-Saxons in Britain (to 1066)
- . An aspect of British history extending past 1066
- . Local history study
- . Overview of earliest civilizations and indenth study of one /Ancient Sumer, Indus. Valley, Ancient Egypt or Shang Dynasty)
- · Ancient Greece
- · A non-European society (early Islamic, Mayan or Benin)

COMPUTING (KS2)

- . Design, write and debug programs
- . Use sequence, selection and repetition In programs
- Use logical reasoning
- . Understand computer networks
- . Use search technologies effectively . Create a range of digital products
- (including for handling data)
- . Use technology safely, respectfully and responsibly

MATHEMATICS

Number

- . Numbers to at least 1 million; read, write, order, compare; know place value; round to nearest power of 10; count on/back in powers of 10
- · Use negative whole numbers in context.
- . Poman numerals: read numbers to 1000 and years . Add and subtract whole numbers with more than
- four digits using column methods . Mentally add and subtract increasingly large
- numbers . Use rounding to check answers
- Identify multiples, factors, prime numbers, prime factors and composite numbers
- . Find primes to 100; recall primes to 19
- . Multiply numbers up to four digits by a one- or twodigit number using formal written method
- · Multiply and divide numbers mentally
- . Divide numbers up to four digits by a one-digit number using formal written method; interpret remainders.
- . Multiply and divide by powers of 10
- . Use square and cube numbers; use 2 and 2 notation · Compare and order fractions
- . Identify, name and write equivalent fractions . Use mixed numbers and improper fractions and
- convert between them . Add and subtract fractions with common/related denominators
- . Muttiply fractions by whole numbers
- . Write decimals as fractions . Recognise and use thousandths and relate to tenths, hundredths and decimal equivalents

- . Order and mund decimal numbers
- . Recognise and understand % sign; link percentages to fractions and decimals
- . Solve problems involving all aspects of number, including mutti-step problems

Measurement

- . Convert between metric units and between metric and imperial units
- . Measure and calculate the perimeter of composite right-angled shapes
- . Calculate and compare area of rectangles; estimate area of irregular shapes
- · Estimate volume and capacity
- . Use four operations to solve measure problems using decimal notation
- . Solve problems involving converting between units of time
- . Use all four operations to solve measure problems

Geometry

- . Identify 3D shapes from 2D representations. . Measure, estimate, compare and draw angles in
- . Identify angles: at a point (whole turn); on a straight
- line (half turn); other multiples of 90°
- . Finding missing lengths and angles in rectangles . Distinguish between regular and irregular polygons
- . Reflect and translate shapes

Statistics

- . Solve problems based on line graphs
- . Complete, read and interpret information in tables

. Understand written words and phrases Broaden vocabulary

Develop accurate pronunciation

LANGUAGES (KS2)

· Explore language through stories, songs, poems

. Converse; ask and answer questions; express

. Express ideas and describe things orally and

Listen and respond

opinions; seek help

Speak in sentences

and rhymes

in writing

Understand basic grammar

ART AND DESIGN (KS2)

- Use sketchbooks to collect.
- record and evaluate ideas. Improve skills in drawing, painting and sculpture, using various materials
- · Learn about great artists, architects and designers

MUSIC (KS2)

- . Use voice and instruments with Increasing accuracy, control and
- expression . Improvise and compose music
- . Listen with attention to detail
- . Use and understand musical notation. . Appreciate a wide range of live and
- recorded music · Develop understanding of musical history

PHYSICAL EDUCATION (KS2) Use running, jumping, catching and throwing in

- isolation and in combination Play competitive games, modified as appropriate . Develop flexibility and control in gym, dance and
- athletics Take part in outdoor adventurous activities
- Compare performances to achieve personal bests. . (KS1 or KS2) Swim at least 25 metres; use a range of strokes; perform self-rescue