Skills Overview – Year 5

English

Reading
- Read a wide range of genre and texts for pleasure and recommend to others
- Apply growing knowledge of root words, prefixes and suffixes
- Identify and discuss themes
- Learn poetry by heart, showing understanding through intonation, tone and volume
- Make inferences and predictions, justifying with evidence
- Discuss author's use of language
- Retrieve and present information from non-fiction texts.
- Deliver formal presentations and debates
- Distinguish between fact and opinion

Writing
- Spell homophones, prefixes and silent letters
- Use a dictionary to check the meaning and spelling of words
- Use a thesaurus
- Develop legible, fluent handwriting
- Note and develop initial ideas
- Develop atmosphere, character and setting in narrative
- Use organisational features
- Use consistent appropriate tense
- Draft, proof read and edit
- Perform own compositions
- Assess effectiveness of their own and others writing

Vocabulary, Grammar and Punctuation
- Use expanded noun phrases
- Use modal and passive verbs
- Use relative clauses
- Use commas for clauses
- Use brackets, dashes and commas for parenthesis
- Use all punctuation accurately

Speaking and listening
- Give well structured explanations
- Use standard English
- Consider and evaluate different viewpoints
- Use formal and informal tone

Art and Design
- Use a range of materials to produce line, tone and shade.
- Investigate symbols, shapes, form and composition
- Use techniques, colours, tools and effects to represent things seen, remembered or imagines
- Pupils will improve their art and design techniques through 3D clay sculptures
- A study of an artist, designer and/or architect.

Computing

Computer Science
- Build on the knowledge of using variables and repetition
- Learn how computers use numbers
- Change speed and position
- Detect errors in algorithms
- change inputs

Information Technology
- Choose and evaluate ways to present information
- Use search technologies effectively
- Understand how the internet is used for collaboration

Digital Literacy
- Evaluate search results to choose appropriate websites
- Understand risks of sharing personal information onlibe
- Importance of online behaviour and cyber bullying
- Beware of the dangers of the internet

Mathematics

Number and calculation
- Secure place value to 1000000
- Use negative whole numbers in context
- Use Roman Numerals to 1000(M)
- Solve multi-step problems using standard written methods for all four operations
- Confidently use all four operations when solving problems mentally
- Use vocabulary of prime, factor and multiples
- Multiply and divide powers of ten
- Use square and cube numbers

Geometry and measures
- Identify 3D shapes from nets
- Compare regular and irregular 2D shapes
- Know and use angles and their rules, finding missing angles
- Translate and reflect shapes, using all four quadrants
- Confidently use a range of measures and conversions using metric and imperial units
- Solve measurement word problems
- Calculate perimeter of a rectilinear shape
- Calculate area of triangles and squares
- Solve time word problems
- Use area and volume formulas
- Estimate capacity
- Use all 4 operations to solve problems involving measure

Fractions, decimals and percentages
- Compare and order fractions
- add and subtract fractions
- Identify equivalent fractions
- Recognise and use mixed and improper fractions
- Multiply fractions by whole number
- Write decimals as fractions
- Order and round decimal numbers
- Link percentages to fractions and decimals
- Solve problems using involving fractions

Data
- Interpret bar charts and line graphs
- Solve questions about line graphs
- Interpret information from lines graphs, tables and timetables

Design Technology

Design
- use research to design for specific audiences and puposes
- generate, develop, model and communicate ideas through discussion, and other methods

Make
- Select from and use a wide range of tools, materials and components

Evaluate
- Investigate and analyse existing products
- Evaluate ideas against own criteria and use others views to improve work.

Technical Knowledge
- Understand and use mechanical systems in their work

Geography

Location knowledge
- Understand latitude, longitude, Equator, Hemispheres, Tropics of Cancer and Capricorn, Arctic and Antarctic Circle and the time zones.

Place knowledge
- Understand geographical similarities and differences through the study of South America

Human and physical Geography
- describe and understand physical geography, climate zones, biomes and vegetation belts

Skills and Fieldwork
- use maps, atlases, globes and computer mapping to locate countries
- Use eight compass points and four figure grid references

Modern Foreign Languages
- Read carefully and show an understanding of words, phrases and simple writing
- Develop their ability to understand new words that are introduced in written material
- Use dictionaries to understand new words
- Develop intonation so that others understand when they are reading aloud
- Understand basic grammar e.g. gender feminine and masculine and neuter forms

Music
- Use voices and instruments with control, fluency and accuracy
- Improvise and compose music for a range of purposes including dimensions of music (dynamics, pace, pitch, duration, silence texture and structure.
  - Use and understand notations
  - Listen with attention to detail and recall sounds
  - Appreciate music from different traditions and great composers and musicians
- Develop and understand the history of music

Science

Biology
- Living things in their habitats (life cycles)
- Animals including humans (changes in humans as they grow)

Chemistry
- Properties and changes of materials

Physics
- Forces (gravity, friction, air/water resistance, levers, pulleys and gears)
- Earth and Space

Working Scientifically
- Planning different types of scientific enquiries
- Take measurements with a range of scientific equipment with accuracy and precision
- Record data and results using diagrams and lables and tables and graphs
- Make predictions
- Report and present findings

History

British History
- 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

Broader History Study
- Ancient Greece, a study of Greek life and achievements and their influence on the Western world

Working Historically
- Further develop:
- Chronological understanding of British and World History
- identify contrasts, connections and trends overtime and use historical terms
- address and devise historically valid questions about change, cause, similarity and difference and significance
- construct informed responses by selecting sand organising historical information
- Understand that our knowledge of the past is drawn from a range of sources.

Physical Education
- Play competitive games
- adapting tactical strategies such as attacking and defending
- Apply and develop a range of skills consistently
- Develop flexibility and control, and perform actions, shapes and balances consistently in dance and gym
- Evaluate performances
- Improve their swimming proficiency and range of strokes- front crawl, back stroke and breast stroke

Religious Education

Christianity
- Understand God through biblical teaching
- Learn about the bible
- Understand worship
- Learn about the Advent and Christmas, Lent, Holy week and Easter

Judaism
- Understand the beliefs and teachings of the religion, including belief about God and the importance of the Torah
- Understand the practices of Jewish people
- Understand the expression of values in everyday life
- The themes of the Jewish religion
- Concepts of the Jewish religion