Curriculum Overview for Year 6

English

Reading
- To Maintain positive attitude to reading
- Discuss and explain reading providing reasoned justifications for views.
- Read a broad range of genres
- Support inferences with evidence
- Summarise key points from text
- Identify how language, structure contributes to meaning
- Discuss use of language eg figurative
- Show understanding when performing poetry

Writing
- Use knowledge of morphology and etymology in spelling
- Develop legible personal handwriting style
- Plan writing to suit audience and purpose; use models of writing
- Develop character and setting in narrative
- Select grammar and vocabulary for effect
- Use a wide range of cohesive devices
- Ensure grammatical consistency

Grammar
- Use appropriate performance speech
- Use features to convey and clarify meaning
- Use full punctuation
- Use language of subject/object

Speaking and listening
- Use questions to build knowledge
- Articulate arguments and opinions
- Use spoken language to speculate, hypothesise and explore

Mathematics

Number/Calculation
- Secure place value and rounding to 10,000,000 including negatives
- Formal written methods including long division
- Use order of operations
- Identify primes, factors and multiples
- Solve multistep number problems

Algebra
- Introduce simple use of unknowns

Geometry and Measure
- Confidently use a range of measures and proportions
- Calculate the area of triangles and parallelograms
- Use area and volume formulas
- Classify shapes by properties
- Find unknown irregular polygons
- Reflect and translate shapes, using all four quadrants

Statistics
- Use pie charts
- Calculate mean averages

Fractions and decimals
- Add and subtract fractions with different denominators and with mixed numbers
- Multiply simple fractions
- Divide fractions by whole numbers
- Solve problems using decimals and percentages
- Use written division up to 2 decimal places.
- Introduce proportion and ratio

Science

Biology
- Health and life styles
- Human circulation
- Evolution and inheritance

Chemistry
- Understand mixtures and solutions

Physics
- Light and shadows Inc. the eye
- Forces including gravity
- Electricity investigating circuits

History
- British history
- Significant turning points in British history
- An aspect of British History Industry
- Egyptians
  - Broader History study
  - Non-European society
  - Mayans, Aztecs, Incas

Art & Design
- Use sketchbooks to collect record, review, revisit and evaluate ideas
- Improve mastery of techniques such as drawing, painting and sculpture with varied materials.
- Learn about great artists, architects and designers

Design & Technology
- Use research and criteria to develop products which are fit for purpose and aimed at specific groups
- Use annotated sketches, cross sectioned diagrams and computer aided design.
  - Analyse and evaluate existing products and improve own work.
  - Use mechanical and electrical systems in own work, including programming
- Cook savoury dishes for a healthy, varied diet.

Modern Languages
- Listen and engage
- Engage in conversation, expressing opinions
- Speak in simple language and be understood
- Develop appropriate pronunciation
- Present ideas and information orally
- Show understanding in simple reading and writing
- Adapt known language to create new ideas
- Describe people places and things
- Understand basic grammar e.g. gender

Physical Education
- Use running, jumping, throwing and catching in isolation and in combination
- Play competitive games, applying basic principles
- Develop flexibility and control in gym, dance and athletics
- Compare performances to achieve personal best
- Swimming with increasing proficiency 25m and beyond
- Take part in outdoor and adventurous activities

Computing
- Design and write and debug programs to solve problems
- Use sequences, repetition, inputs, variables and outputs in programmes
- Understand the uses of computer networks for collaboration and communication
- Be discerning in evaluating digital content
- Use internet safely, respectfully and responsibly

Geography
- Name and locate counties, cities, regions and features of the UK
- Understand latitude, longitude, Equator, hemispheres, tropics, polar circles and time zones
- Study a region of Europe and of the Americas
- Use 4 and 6 figure grid references on OS maps
- Use fieldwork to record and explain areas.

Music
- Perform with control and expression solo and in ensembles
- Improvise and compose using dimensions of music
- Listen to detail and recall aurally
- Use and understand the basics of staff notation
- Develop an understanding of the history of music, including great musicians and composers

Religious Education
- Teachings and authority
- Religion, family and community
- It matters to me, it matters to others.
- Journey of life and death