Curriculum Overview for Year 6

English

Reading
- Read a broad range of genres
- Make comparisons within and across books
- Identify how language, structure and presentation contribute to meaning
- Provide reasoned justification for their views
- Use habits of discussion to discuss books
- Infer characters' feelings, thoughts and motives from their actions

Writing
- Use knowledge of morphology & 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 full punctuation
- Use passive verb to affect the presentation of information
- Use language of subject / object
- Use wide range of cohesive devices to link across paragraphs
- Use appropriate register / style

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

Mathematics

Number/Calculations
- Use negative numbers to calculate intervals across zero
- Divide numbers using long division, interpreting the remainders as appropriate
- Use order of operations to carry out calculations

Ratio and Proportion
- Solve problems involving ratio, using multiplication and division facts
- Solve problems involving similar shapes where the scale factor is known
- Solve problems involving proportion, using knowledge of fractions and multiples

Algebra
- Use simple formulae
- Generate/describe linear number sequences
- Express missing number problems algebraically

Geometry and Measurement
- Convert units of measure between smaller and larger units
- Convert between miles and kilometres
- Calculate the area of parallelograms and triangles
- Calculate and compare volume of cubes and cuboids
- Illustrate and name parts of a circle
- Finding missing angles in triangles, quadrilaterals and regular polygons
- Recognise vertically opposite angles and find missing angles
- Describe positions on the full co-ordinate grid Translate shapes on a co-ordinate grid and reflect in the axes

Statistics
- Construct and interpret pie charts
- Calculate the mean as an average

Fractions and Decimals
- Use common factors to simplify fractions Compare and order fractions of any size
- Add and subtract fractions with different denominators and mixed numbers
- Multiply simple pairs of proper fractions Divide proper fractions by whole numbers Calculate decimal fraction equivalents for simple fractions
- Multiply a number with up to two decimal places by whole numbers
- Use written division with answers of up to two decimal places
- Solve problems involving the calculation of percentages
- Recall and use equivalences between fractions, decimals and percentages

Science
- Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary
- Take measurements using a range of scientific equipment with increasing accuracy and precision
- Record data and results of increasing complexity
- Use test results to make predictions to set up further comparative and fair tests
- Report findings from enquires
- Identify scientific evidence that has been used to support or refute ideas or arguments

History
- Study significant turning points in British history with a focus on conflict, World War I and World War II and their impact on society
- Study Ancient Egypt, one of the earliest ancient civilisations
- Name the date of a significant event from the past and place it in the right place on a time line
- Know that people both in the past and now have a clear point of view and that this can affect interpretation of the past
- Choose reliable sources of evidence to help me answer questions, realising that there is often not a single answer to historical questions

Art & Design
- Use sketchbooks to analyse and comment on ideas and approaches
- Adapt and refine work, taking account of the purpose
- Improve mastery of techniques including drawing, painting, 3D sculpture and collage
- Learn about Van Gough, Emil Nolde, Sargent, David Hockney, Monet and Egyptian art

Design & Technology
- Research and develop design criteria to create a product that is fit for purpose. Consider the view of users' when designing a product
- Communicate their ideas through annotated sketches and computer aided design
- Understand and use mechanical systems
- Apply knowledge of how to strengthen more complex structures. Apply knowledge of structures and select appropriate tools and materials to create structures
- Evaluate, reflect and suggest ways to improve work
- Consider the views of others and evaluate against own design criteria

Modern Languages
- Listen and understand simple and compound sentences
- Develop accurate pronunciation
- Read and write with understanding, simple and compound sentences, and paragraphs, with some language from memory
- Consolidate, develop and use deepening vocabulary
- Recognise and manipulate word classes within syntax, showing and understanding of basic grammar
- Appreciate and have access to stories and songs In the target language
- Describe people, places and things within the cultures related to the language being taught
- Begin to converse with confidence
- Express opinions

Physical Education
- Use running, jumping and catching in isolation and in combination
- Play competitive games (football, basketball, hockey , rounders and tennis);continue to develop an understanding of the rules in order to start officiating matches
- Develop strength, control, balance flexibility and technique through gymnastics and athletics
- Perform dances using a range of movement patterns as well as street dance
- Take part in outdoor adventurous activity challenges, individually and in a team (Isle of Wight)
- Compare (evaluate) their performances with previous ones and demonstrate improvement to achieve their personal best

Computing
- Be discerning in evaluating use of mobile phones, images and privacy online
- Learn to be a digital citizen
- Design and write programs using Scratch, debugging throughout the process
- Manipulate sound and video using Audacity and Movie Maker
- Use a range of presentation software

Geography
- Name and locate rivers and mountain ranges and the countries they are in
- Identify features and produce detailed maps of an area being studied
- Describe and explain the different patterns and processes found in rivers and mountains
- Make links about physical processes through the comparison of different mountains and rivers
- Make informed judgements about the use of mountains and rivers by humans and the impact these uses have on the environment
- Explain the mountain climate
- Make links with science to explain how rivers get their water

Music
- Learn about the 'Inter-Related Dimensions of Music'
- Listen and Respond to Music
- Take part i9n glockenspiel and chime bars challenge
- Compose, rehearse and perform a group song
- Take part in 'Battle of the Bands' – group compositions
- Have peripatetic tuition on chosen instrument
- Work towards performances – the Year 6 Production and Leavers' Service

Religious Education

Learning about religion
- Use a wide religious vocabulary to explain the impact of beliefs on individuals and communities, understanding that similarities and differences illustrate distinctive beliefs within and between religions

Learning from religion
- Discuss answers to questions of identity, belonging, purpose and truth, values and commitments, relating them to their own and others' lives