

Mathematics

Number/Calculation

- Secure place value to 1,000,000
- Use negative whole numbers in context
- Use Roman numerals to 1000 (M)
- Use standard written methods for all four operations
- Confidently add & subtract mentally
- Use vocabulary of prime, factor & multiple
- Multiply & divide by powers of ten
- Use square and cube numbers

Fractions

- Compare & order fractions
- Add & subtract fractions with common denominators, with mixed numbers
- Multiply fractions by units
- Write decimals as fractions
- Order & round decimal numbers
- Link percentages to fractions & decimals

Geometry & Measures

- Convert between different units
- Calculate perimeter of composite shapes & area of rectangles
- Estimate volume & capacity
- Identify 3-d shapes
- Measure & identify angles
- Understand regular polygons
- Reflect & translate shapes

Data

- Interpret tables & line graphs
- Solve questions about line graphs



Curriculum Overview for Year 5

Computing

Computer Science

- Design & write programs to solve problems
 - Use sequences, repetition, inputs, variables and outputs in programs
- Detects & correct errors in programs

Digital Literacy

- Understand uses of networks for collaboration & communication
 - Be discerning in evaluating digital content
- Herts for Learning Scheme units:**
Data Matters, Robotics & Systems, Morphing Image

English

Reading

- Apply knowledge of morphology & etymology when reading new words
- Reading & discuss a broad range of genres & texts
- Identifying & discussing themes
- Make recommendations to others
- Learn poetry by heart
- Draw inference & make predictions
- Discuss authors' use of language
- Retrieve & present information from non-fiction texts.
- Formal presentations & debates

Writing

- Secure spelling, inc. homophones, prefixes, silent letters, etc.
- Use a thesaurus
- Legible, fluent handwriting
- Plan writing to suit audience & purpose
- Develop character, setting and atmosphere in narrative
- Use organisational & presentational features
- Use consistent appropriate tense
- Proof-reading
- Perform own compositions

Grammar

- Use expanded noun phrases
- Use modal & passive verbs
- Use relative clauses
- Use commas for clauses
- Use brackets, dashes & commas for parenthesis

Speaking & Listening

- Give well-structured explanations
- Command of Standard English
- Consider & evaluate different viewpoints
- Use appropriate register

Science

Every Term includes Scientific Investigation

Biology

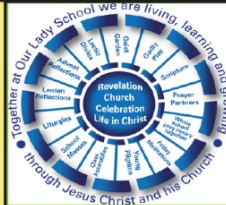
- Life cycles of plants & animals (inc. mammal, insect, bird, amphibian)
- Describe changes as humans develop & mature
- Living things and their habitats

Chemistry

- Classify materials according to a variety of properties
- Understand mixtures & solutions
- Know about reversible changes; identify irreversible
- Introduction to atoms: Dalton

Physics

- Understand location and interaction of Sun, Earth & Moon
- Introduce gravity, resistance & mechanical forces



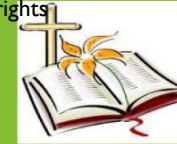
Religious Education

- Revelation, The Church, Celebration, Life in Christ.
- Diocesan Units
- 'Come & See' topics (*Aut – Year B, Spr & Sum Year C*)
- School Masses, Rosary Assemblies, Services of the Word and Communion
- Crowning Of Our Lady, Lectio Divina

- Advent - The Nativity
- Lent - Holy Week - Easter
- Assemblies, Meditation

PSHE and Citizenship

- to recognise and respond appropriately to a wider range of feelings in others
- to differentiate between the terms, 'risk', 'danger' and 'hazard'
- to understand that everyone has human rights, all peoples and all societies and that children have their own special rights



History

British History

(taught chronologically)

- Anglo-Saxons & Vikings, including:
 - Roman withdrawal from Britain; Scots invasion
 - Invasions, settlements & kingdoms
 - Viking invasions; Danegald
 - Edward the Confessor

Broader History Study

A depth of study over a period of time

Physical Education

- Use running, jumping, catching and throwing in isolation and in combination
- Play competitive games, applying basic principles
- Develop flexibility & control in gym, dance & athletics
- Take part in Outdoor & Adventurous activities
- Compare performances to achieve personal bests
- Swimming proficiency
- Paralympics Sports

Design & Technology

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

Modern Foreign Language

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

Geography

- Locational Knowledge:** to refer to longitude, latitude and equator, time zones.
- Place Knowledge:** Uganda and Brazil and comparison to the UK
- Human and Physical Geography:** physical geography: climate zones, lakes, mountains, aquatic bioms. Human geography: types of land use, economic activity including trade links, and the distribution of natural resources, trade, tourism
- Geographical Skills and Fieldwork:** to observe, measure and record the physical features of the weather in the local area using a range of methods, and then plan a presentation about the weather, using digital technologies; to use maps, atlases or globes, using eight compass points confidently, six-figure grid references, and beginning to relate maps to aerial photographs.

Music

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

Classics

- To learn about Greek & Roman Myths *c-c English*
- Magical beings: *Griffins, Pegasus*
- Satyrs
- Orion
- Jason and the Golden Fleece
- Introduction to Latin – Minimus
- The Trojan War
- Hector, Helen, Achilles
- Greek debating
- Minimus

Art & Design

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