

## Mathematics

### Number/Calculation

- Know all tables to 12 x 12
- Secure place value to 1000
- Use negative whole numbers
- Round numbers to nearest 10, 100 or 1000
- Use Roman numerals to 100 (C)
- Column addition & subtraction up to 4 digits
- Multiply & divide mentally
- Use standard short multiplication

### Fractions & decimals

- Recognise tenths & hundredths
- Identify equivalent fractions
- Add & subtract fractions with common denominators
- Recognise common equivalents
- Round decimals to whole numbers
- Solve money problems

### Geometry & Measures

- Compare 2-d shapes, including quadrilaterals & triangles
- Find area by counting squares
- Calculate rectangle perimeters
- Estimate & calculate measures
- Identify acute, obtuse & right angles
- Identify symmetry
- Use first quadrant coordinates
- Introduce simple translations
- **Data**
- Use bar charts, pictograms & line graphs



# Curriculum Overview for Year 4

## Computing

### Computer Science

- Design & write programs to achieve specific goals, including solving problems
- Use logical reasoning
- **Digital Literacy**
- Understand computer networks
- Use internet safely and appropriately
- Collect and present data appropriately
- **Herts for Learning Scheme units:**  
*Accuracy Counts, Programming and Games, Authoring*

## English

### Reading

- Secure decoding of unfamiliar words
- Read for a range of purposes
- Retell some stories orally
- Discuss words & phrases that capture the imagination
- Identify themes & conventions
- Retrieve & record information
- Make inferences & justify predictions
- Recognise a variety of forms of poetry
- Identify & summarise ideas

### Writing

- Correctly spell common homophones
- Increase regularity of handwriting
- Plan writing based on familiar forms
- Organise writing into paragraphs
- Use simple organisational devices
- Proof-read for spelling & punctuation errors
- Evaluate own and others' writing
- Read own writing aloud

### Grammar

- Use wider range of conjunctions
- Use perfect tense appropriately
- Select pronouns and nouns for clarity
- Use & punctuate direct speech
- Use commas after front adverbials

### Speaking & Listening

- Articulate & justify opinions
- Speak audibly in Standard English
- Gain, maintain & monitor interest of listeners



## Religious Education

- Revelation, The Church, Celebration, Life in Christ
- Diocesan units
- 'Come and See' topics (*Aut Year A, Spr & Sum - Year B*)
- School Masses, Rosary Assemblies
- Services of the Word and Communion

- Sacrament of Reconciliation, Mentors for Y3
- Advent - The Nativity
- Lent - Holy Week - Easter
- Class 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



## Geography

- **Locational Knowledge:** time zones, equator, latitude, longitude and the hemispheres
- **Place Knowledge:** similarities and differences between the United Kingdom and a European country, through the study of Greece or Italy.
- **Human and Physical Geography:** physical geography (climate zones, rivers, mountains, volcanoes) and human geography (types of land use, economic activity, including trade links, and the distribution of the natural resources).
- **Geographical Skills and Fieldwork:** to use maps and globes; practise using eight compass points and four- and six-figure grid references; use simple grids and use letter/number coordinates to locate features on a map confidently; to begin to use four-figure co-ordinates to locate features.

## Music

- Use voice & instruments with increasing accuracy, control and expression
- Improvise & compose music
- Listen with attention to detail
- Appreciate wide range of live & recorded music from different traditions
- Begin to develop understanding of the history of music

### To learn about Greek & Roman Myths c-c English Classics

- Greek Gods
- Story of Heracles
- Story of the Olympic Games
- Pandora
- Icarus
- Arachne

## History

### British History (taught chronologically)

- Roman Empire & impact on Britain:
  - Julius Caesar's attempted invasion
  - Roman Empire & successful invasion
  - British resistance, e.g. Boudicca
- Romanisation of Britain

### Broader History Study

- Ancient Greece, i.e.
- A study of Greek life and achievements and their influence on the western world

## Physical Education

- Use running, jumping, catching and throwing in isolation and in combination
- Play competitive games, modified as appropriate
- Develop flexibility & control in gym, dance & athletics
- Compare performances to achieve personal bests
- Swimming proficiency
- Paralympic Sports
- Outdoor Adventure Activities

## Science

### Biology

- Classify living things
- Digestive system (animals, including humans) & teeth (the functions & care of teeth)
- Food chains

### Chemistry

- Changes of state
- The water cycle

### Physics

- Sound as vibrations
- Electricity: simple circuits & conductors

Every Term includes Scientific Investigation

## Design & Technology

- Use research & criteria to develop products which are fit for purpose
- Use annotated sketches and prototypes to explain ideas
- Evaluate existing products and improve own work
- Use mechanical systems in own work
- Understand seasonality; prepare & cook mainly savoury dishes

## Modern Foreign Language

- Listen & engage
- Ask & answer questions
- Speak in sentences using familiar vocabulary
- Develop appropriate pronunciation
- Show understanding of words & phrases
- Appreciate stories, songs, poems & rhymes
- Broaden vocabulary

## Art & Design

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