

# Curriculum Overview for Year 6

## Mathematics

### Number/Calculation

- ☑ Secure place value & rounding to 10,000,000, including negatives
- ☑ All written methods, including long division
- ☑ Use order of operations (not indices)
- ☑ Identify factors, multiples & primes
- ☑ Solve multi-step number problems

### Algebra

- ☑ Introduce simple use of unknowns

### Data

- ☑ Use pie charts
- ☑ Calculate mean averages

## Geometry & Measures

- ☑ Confidently use a range of measures & conversions
- ☑ Calculate the area of triangles / parallelograms
- ☑ Use area & volume formulas
- ☑ Classify shapes by properties
- ☑ Know and use angle rules
- ☑ Translate & reflect shapes, using all four quadrants

### Fractions, decimals & percentages

- ☑ Compare & simplify fractions
- ☑ Use equivalents to add fractions
- ☑ Multiply simple fractions
- ☑ Divide fractions by whole numbers
- ☑ Solve problems using decimals & percentages
- ☑ Use written division up to 2dp
- ☑ Introduce ratio & proportion

## English

### Reading

- ☑ Read a broad range of genres
- ☑ Learn poetry by heart
- ☑ Recommend books to others
- ☑ Make comparisons within/across books
- ☑ Support inferences with evidence
- ☑ Summarising key points from texts
- ☑ Identify how language, structure, etc. contribute to meaning
- ☑ Discuss use of language, inc. figurative
- ☑ Discuss & explain reading, providing reasoned justifications for views

### Speaking & Listening

- ☑ Use questions to build knowledge
- ☑ Articulate arguments & opinions
- ☑ Use spoken language to speculate, hypothesise & explore
- ☑ Use appropriate register & language

### Writing

- ☑ Use knowledge of morphology & etymology in spelling
- ☑ Develop legible personal handwriting style
- ☑ Plan writing to suit audience & purpose; use models of writing
- ☑ Develop character & setting in narrative
- ☑ Select grammar & vocabulary for effect
- ☑ Use a wide range of cohesive devices
- ☑ Ensure grammatical consistency
- Grammar**
- ☑ Use appropriate register/ style
- ☑ Use the passive voice for purpose
- ☑ Use features to convey & clarify meaning
- ☑ Use full punctuation
- ☑ Use language of subject/object

## Science

### Biology

- ☑ Classification, including micro-organisms
- ☑ Living things and their habitat
- ☑ Evolution & Inheritance
- ☑ Animals, including humans

### Physics

- ☑ Light & Shadows; the eye
- ☑ Electricity: investigating circuits

## Computing (UKS2)

- ☑ Design & write programs to solve problems
- ☑ Use sequences, repetition, inputs, variables and outputs in programs
- ☑ Detect & correct errors in programs
- ☑ Understand uses of networks for collaboration & communication
- ☑ Be discerning in evaluating digital content
- ☑ esafety

## Geography (UKS2)

- Name & locate counties, cities, regions & features of the UK
- ☑ Understand latitude, longitude, Equator, hemispheres, tropics, polar circles & time zones
- ☑ Study the River Severn and River Amazon, mountains and volcanoes
- ☑ Understand economic activity, distribution of resources, etc.
- ☑ Use 4-figure grid references on OS maps
- ☑ Use fieldwork to record & explain areas

### Learning Challenge

- Will you ever see the water you drink again?
- What makes the Earth angry?
- I'm a year 6, get me out of here!
- Why is the River Severn important to Britain?

## History

### British History (taught chronologically)

- ☑ The Vikings
- ☑ Hitler's invasion of Europe and its impact on Britain
- Broader History Study**
- ☑ Non-European society, i.e. - Islamic civilization, including Baghdad

### Learning Challenge

- Why was the Islamic Civilization around 900AD known as the Golden Age?

## Religious Education

- ☑ Muhammad
- ☑ The role of the Mosque
- ☑ How Christianity influences others
- ☑ Religious Buildings

### Learning Challenges

- What is prayer and meditation
- How can religious meaning be expressed through art
- What do we believe in our town?
- How do Muslims celebrate marriage?
- What do people believe after someone dies?

## SMSC and PSHE

- ☑ Dealings with feelings
- ☑ Staying safe
- ☑ Healthy choices
- ☑ Global citizenship- Millennium Development
- ☑ Going for goals
- ☑ Sex and Relationships Education

## Modern Languages (UKS2)

- ☑ 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
- ☑ Describe people & things
- ☑ Understand basic grammar, e.g. gender

## Art & Design (UKS2)

- ☑ 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: artists linked to WW2
- ☑ Islamic patterns

## Design & Technology (UKS2)

- ☑ 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

## Music (UKS2)

- ☑ 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

## Physical Education (UKS2)

- ☑ 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